

**SITE ASSESSMENT FOR PROPOSED COKE
POINT DREDGED MATERIAL CONTAINMENT
FACILITY AT SPARROWS POINT

BALTIMORE COUNTY, MARYLAND**

ATTACHMENT I

Analytical Results – Soil

Prepared for:



Maryland Port Administration
2310 Broening Highway
Baltimore, Maryland 21224



Under Contract to:

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

Prepared by:



EA Engineering, Science, and Technology, Inc.
15 Loveton Circle
Sparks, Maryland 21152

BENZOL PROCESSING AREA ANALYTICAL RESULTS - SOIL

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

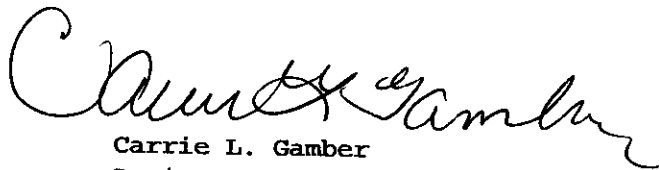
MES Sparrows Point 18001868

Lot #: C9E210170

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

May 31, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pittsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E210170

Sample Receiving:

TestAmerica's Pittsburgh laboratory received one sample on May 21, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E210170

Metals:

The samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

Sample BP-SO-B01-8 was analyzed at a dilution for mercury.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

General Chemistry:

Sample BO-SO-B01-8 was analyzed at a dilution for total cyanide.

The matrix spike and matrix spike duplicate recovered outside of the control limits for total cyanide.

The RPD between the matrix spike and matrix spike duplicate for sample BP-SO-B03-32 for cyanide was outside QC limits.

METHODS SUMMARY

C9E210170

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|--|----------------------|-----------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9E210170

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LDGNP | 001 | BP-SO-B03-32 | 05/20/09 | 11:20 |
| LDGN1 | 002 | BP-SO-DUP1 | 05/20/09 | |
| LDGN2 | 003 | BP-SO-B01-8 | 05/20/09 | 15:30 |
| LDGN3 | 004 | TRIP BLANK | 05/20/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

7

Cooler Receipt Form
TestAmerica Pittsburgh

Client: MES Project: 5 21 9 Quote: 82013
Cooler Rec'd & Opened for Temp. Check on: 5 21 9
Coolers Opened and Unpacked on: 5 21 9 By: JO
(Signature)
TestAmerica Pittsburgh Lot Number: C9E210170

- | | Yes | No | NA |
|--|----------|----|----------|
| 1. Were custody seals on the outside of the cooler? <u>✓</u> | <u>✓</u> | | |
| If YES, how many and where? Quantity <u>1</u> Location <u>F</u> | | | |
| Were signatures and date correct? <u>✓</u> | <u>✓</u> | | |
| 2. Were custody papers included inside the cooler? <u>✓</u> | <u>✓</u> | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? <u>✓</u> | <u>✓</u> | | |
| 4. Did you sign the custody papers in the appropriate place? <u>✓</u> | <u>✓</u> | | |
| 5. Was shippers packing slip attached to this form? <u>✓</u> | <u>✓</u> | | |
| 6. Were packing materials used? <u>✓</u> | <u>✓</u> | | |
| If YES, what type? <u>BUBBLE BAGS</u> | | | |
| 7. Were the samples received within the acceptable temperature range? <u>✓</u> | <u>✓</u> | | |
| 8. Were the samples appropriately preserved? <u>✓</u> | <u>✓</u> | | |
| 9. Were all bottles sealed in separate plastic bags? <u>✓</u> | <u>✓</u> | | |
| 10. Did all bottles arrive in good condition (unbroken)? <u>✓</u> | <u>✓</u> | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? <u>✓</u> | <u>✓</u> | | |
| 12. Did all bottle labels and/or tags agree with custody papers? <u>✓</u> | <u>✓</u> | | |
| 13. Were correct bottles used for tests indicated? <u>✓</u> | <u>✓</u> | | |
| 14. Were all VOA vials checked for the presence of air bubbles? <u>✓</u> | <u>✓</u> | | <u>✓</u> |
| 15. Was a sufficient amount of sample sent in each bottle? <u>✓</u> | <u>✓</u> | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

FedEX® US Airbill
Express

8694 4003 0274

0200

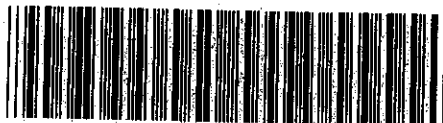
Form
ID No.

FedEx Retrieval Copy

1 From
Date 20 MAY 09 Sender's FedEx Account Number 0212-0722-5
Sender's Name STEVEN YANKAY Phone 77 487-6632
Company EA ENGINEERING
Address 15 LOUETON CIRCLE
City SPARKS State MD ZIP 21152
Dept./Floor/Suite/Room

2 Your Internal Billing Reference 1453406.0001.0004B

3 To
Recipient's Name SAMPLE RECEIVING Phone 412 963-7428
Company TEST AMERICA
Recipient's Address 301 ALPHA DRIVE RIDC PARK
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City PITTSBURGH State PA ZIP 15238
Dept./Floor/Suite/Room



8694 4003 0274

4a Express Package Service

- 1** ☐ FedEx Priority Overnight
Next business morning.* Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
- 5** ☒ FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.
- 6** ☐ FedEx First Overnight
Earliest next business morning
delivery to select locations.*
Saturday Delivery NOT available.
- 3** ☐ FedEx 2Day
Second business day.* Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
*FedEx Envelope rate not available. Minimum charge: One-pound rate.
- 20** ☐ FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.
- * To most locations.

4b Express Freight Service

- 7** ☐ FedEx 1Day Freight*
Next business day.** Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
- 8** ☐ FedEx 2Day Freight
Second business day.** Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
- 83** ☐ FedEx 3Day Freight
Third business day.**
Saturday Delivery NOT available.
- * Call for Confirmation. ** To most locations.

5 Packaging

- 6** ☐ FedEx Envelope* **2** ☐ FedEx Pak*
Includes FedEx Small Pak,
FedEx Large Pak, and FedEx Sturdy Pak.
- 3** ☐ FedEx Box **4** ☐ FedEx Tube **1** ☒ Other
* Declared value limit \$500.

6 Special Handling

- 3** ☐ SATURDAY Delivery
Not available for
FedEx First Overnight, FedEx Express
Saver, or FedEx 3Day Freight.
- 1** ☐ HOLD Weekday
at FedEx Location
Not available for
FedEx First Overnight.
- 31** ☐ HOLD Saturday
at FedEx Location
Available ONLY for FedEx Priority
Overnight and FedEx 2Day
to select locations.
- Include FedEx address in Section 2.
- Does this shipment contain dangerous goods?
One box must be checked.
☒ No **4** ☐ Yes
As per attached
Shipper's Declaration.
- ☐ Yes
Shipper's Declaration
not required.
- 6** ☐ Dry Ice
Dry Ice, 9, UN1845 x kg
- Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 Payment Bill to:

- 1** ☒ Sender
Acct. No. in
Section 1 will
be billed.
- 2** ☐ Recipient **3** ☐ Third Party **4** ☐ Credit Card **5** ☐ Cash/Check
- Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

Total Packages

Total Weight

Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

- No Signature Required**
Package may be left
without obtaining a
signature for delivery.
- 10** ☐ Direct Signature
Someone at recipient's
address may sign for
delivery. Fee applies.
- 34** ☐ Indirect Signature
If no one is available at
recipient's address, someone
at a neighboring address may
sign for delivery. Fee applies.

520

Rev. Data 10/08/Part #158281-01/08-2008 FedEx-PRINTED IN U.S.A. SRY

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-001 | Work Order #....: LDGNP1AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 14:36 | |
| Dilution Factor: 9.19 | Initial Wgt/Vol: 5.44 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 30 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 66000 | ug/kg | 10000 |
| Acrylonitrile | ND | 66000 | ug/kg | 5300 |
| Benzene | 65000 | 3300 | ug/kg | 650 |
| Bromodichloromethane | ND | 3300 | ug/kg | 610 |
| Bromoform | ND | 3300 | ug/kg | 700 |
| Bromomethane | ND | 3300 | ug/kg | 1000 |
| 2-Butanone (MEK) | ND | 3300 | ug/kg | 710 |
| Carbon tetrachloride | ND | 3300 | ug/kg | 710 |
| Chloroethane | ND | 3300 | ug/kg | 490 |
| 2-Chloroethyl vinyl ether | ND | 6600 | ug/kg | 730 |
| Chloroform | ND | 3300 | ug/kg | 660 |
| Chloromethane | ND | 3300 | ug/kg | 610 |
| Dibromochloromethane | ND | 3300 | ug/kg | 430 |
| 1,2-Dichlorobenzene | ND | 3300 | ug/kg | 450 |
| 1,3-Dichlorobenzene | ND | 3300 | ug/kg | 330 |
| 1,4-Dichlorobenzene | ND | 3300 | ug/kg | 350 |
| trans-1,2-Dichloroethene | ND | 3300 | ug/kg | 500 |
| Dichlorodifluoromethane | ND | 3300 | ug/kg | 420 |
| 1,1-Dichloroethane | ND | 3300 | ug/kg | 670 |
| 1,2-Dichloroethane | ND | 3300 | ug/kg | 630 |
| 1,1-Dichloroethene | ND | 3300 | ug/kg | 700 |
| 1,2-Dichloropropane | ND | 3300 | ug/kg | 840 |
| cis-1,3-Dichloropropene | ND | 3300 | ug/kg | 480 |
| trans-1,3-Dichloropropene | ND | 3300 | ug/kg | 380 |
| Ethylbenzene | ND | 3300 | ug/kg | 410 |
| Methylene chloride | ND | 3300 | ug/kg | 720 |
| 1,1,2,2-Tetrachloroethane | ND | 3300 | ug/kg | 610 |
| Tetrachloroethene | ND | 3300 | ug/kg | 540 |
| Toluene | 9800 | 3300 | ug/kg | 560 |
| 1,1,1-Trichloroethane | ND | 3300 | ug/kg | 680 |
| 1,1,2-Trichloroethane | ND | 3300 | ug/kg | 770 |
| Trichloroethene | ND | 3300 | ug/kg | 530 |
| Trichlorofluoromethane | ND | 3300 | ug/kg | 740 |
| Vinyl chloride | ND | 3300 | ug/kg | 850 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Volatiles

Lot-Sample #...: C9E210170-001 Work Order #...: LDGNP1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-002 | Work Order #....: LDGN11AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 14:59 | |
| Dilution Factor: 9.34 | Initial Wgt/Vol: 5.35 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 36 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 73000 | ug/kg | 12000 |
| Acrylonitrile | ND | 73000 | ug/kg | 5900 |
| Benzene | 76000 | 3700 | ug/kg | 720 |
| Bromodichloromethane | ND | 3700 | ug/kg | 680 |
| Bromoform | ND | 3700 | ug/kg | 780 |
| Bromomethane | ND | 3700 | ug/kg | 1200 |
| 2-Butanone (MEK) | ND | 3700 | ug/kg | 790 |
| Carbon tetrachloride | ND | 3700 | ug/kg | 790 |
| Chloroethane | ND | 3700 | ug/kg | 550 |
| 2-Chloroethyl vinyl ether | ND | 7300 | ug/kg | 810 |
| Chloroform | ND | 3700 | ug/kg | 740 |
| Chloromethane | ND | 3700 | ug/kg | 680 |
| Dibromochloromethane | ND | 3700 | ug/kg | 470 |
| 1,2-Dichlorobenzene | ND | 3700 | ug/kg | 500 |
| 1,3-Dichlorobenzene | ND | 3700 | ug/kg | 370 |
| 1,4-Dichlorobenzene | ND | 3700 | ug/kg | 380 |
| trans-1,2-Dichloroethene | ND | 3700 | ug/kg | 550 |
| Dichlorodifluoromethane | ND | 3700 | ug/kg | 460 |
| 1,1-Dichloroethane | ND | 3700 | ug/kg | 740 |
| 1,2-Dichloroethane | ND | 3700 | ug/kg | 700 |
| 1,1-Dichloroethene | ND | 3700 | ug/kg | 780 |
| 1,2-Dichloropropane | ND | 3700 | ug/kg | 930 |
| cis-1,3-Dichloropropene | ND | 3700 | ug/kg | 530 |
| trans-1,3-Dichloropropene | ND | 3700 | ug/kg | 430 |
| Ethylbenzene | ND | 3700 | ug/kg | 450 |
| Methylene chloride | ND | 3700 | ug/kg | 800 |
| 1,1,2,2-Tetrachloroethane | ND | 3700 | ug/kg | 680 |
| Tetrachloroethene | ND | 3700 | ug/kg | 600 |
| Toluene | 11000 | 3700 | ug/kg | 620 |
| 1,1,1-Trichloroethane | ND | 3700 | ug/kg | 750 |
| 1,1,2-Trichloroethane | ND | 3700 | ug/kg | 850 |
| Trichloroethene | ND | 3700 | ug/kg | 590 |
| Trichlorofluoromethane | ND | 3700 | ug/kg | 820 |
| Vinyl chloride | ND | 3700 | ug/kg | 940 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Volatiles

Lot-Sample #...: C9E210170-002 Work Order #...: LDGN11AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-003 | Work Order #....: LDGN21AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 15:22 | |
| Dilution Factor: 96.71 | Initial Wgt/Vol: 5.17 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 22 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------------|--------------------|--------------|-------------|
| Acrolein | ND | 620000 | ug/kg | 98000 |
| Acrylonitrile | ND | 620000 | ug/kg | 50000 |
| Benzene | 5000000 E | 31000 | ug/kg | 6100 |
| Bromodichloromethane | ND | 31000 | ug/kg | 5800 |
| Bromoform | ND | 31000 | ug/kg | 6600 |
| Bromomethane | ND | 31000 | ug/kg | 9700 |
| 2-Butanone (MEK) | ND | 31000 | ug/kg | 6700 |
| Carbon tetrachloride | ND | 31000 | ug/kg | 6700 |
| Chloroethane | ND | 31000 | ug/kg | 4600 |
| 2-Chloroethyl vinyl ether | ND | 62000 | ug/kg | 6800 |
| Chloroform | ND | 31000 | ug/kg | 6200 |
| Chloromethane | ND | 31000 | ug/kg | 5700 |
| Dibromochloromethane | ND | 31000 | ug/kg | 4000 |
| 1,2-Dichlorobenzene | ND | 31000 | ug/kg | 4200 |
| 1,3-Dichlorobenzene | ND | 31000 | ug/kg | 3100 |
| 1,4-Dichlorobenzene | ND | 31000 | ug/kg | 3200 |
| trans-1,2-Dichloroethene | ND | 31000 | ug/kg | 4600 |
| Dichlorodifluoromethane | ND | 31000 | ug/kg | 3900 |
| 1,1-Dichloroethane | ND | 31000 | ug/kg | 6300 |
| 1,2-Dichloroethane | ND | 31000 | ug/kg | 5900 |
| 1,1-Dichloroethene | ND | 31000 | ug/kg | 6600 |
| 1,2-Dichloropropane | ND | 31000 | ug/kg | 7900 |
| cis-1,3-Dichloropropene | ND | 31000 | ug/kg | 4500 |
| trans-1,3-Dichloropropene | ND | 31000 | ug/kg | 3600 |
| Ethylbenzene | 140000 | 31000 | ug/kg | 3800 |
| Methylene chloride | ND | 31000 | ug/kg | 6700 |
| 1,1,2,2-Tetrachloroethane | ND | 31000 | ug/kg | 5800 |
| Tetrachloroethene | ND | 31000 | ug/kg | 5100 |
| Toluene | 140000 | 31000 | ug/kg | 5200 |
| 1,1,1-Trichloroethane | ND | 31000 | ug/kg | 6400 |
| 1,1,2-Trichloroethane | ND | 31000 | ug/kg | 7200 |
| Trichloroethene | ND | 31000 | ug/kg | 4900 |
| Trichlorofluoromethane | ND | 31000 | ug/kg | 6900 |
| Vinyl chloride | ND | 31000 | ug/kg | 8000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

Lot-Sample #...: C9E210170-003 Work Order #...: LDGN21AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-003 | Work Order #....: LDGN22AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 17:16 | |
| Dilution Factor: 967.1 | Initial Wgt/Vol: 5.17 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 22 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|--------------|--------------|
| Acrolein | ND | 6200000 | ug/kg | 980000 |
| Acrylonitrile | ND | 6200000 | ug/kg | 500000 |
| Benzene | 5700000 | 310000 | ug/kg | 61000 |
| Bromodichloromethane | ND | 310000 | ug/kg | 58000 |
| Bromoform | ND | 310000 | ug/kg | 66000 |
| Bromomethane | ND | 310000 | ug/kg | 97000 |
| 2-Butanone (MEK) | ND | 310000 | ug/kg | 67000 |
| Carbon tetrachloride | ND | 310000 | ug/kg | 67000 |
| Chloroethane | ND | 310000 | ug/kg | 46000 |
| 2-Chloroethyl vinyl ether | ND | 620000 | ug/kg | 68000 |
| Chloroform | ND | 310000 | ug/kg | 62000 |
| Chloromethane | ND | 310000 | ug/kg | 57000 |
| Dibromochloromethane | ND | 310000 | ug/kg | 40000 |
| 1,2-Dichlorobenzene | ND | 310000 | ug/kg | 42000 |
| 1,3-Dichlorobenzene | ND | 310000 | ug/kg | 31000 |
| 1,4-Dichlorobenzene | ND | 310000 | ug/kg | 32000 |
| trans-1,2-Dichloroethene | ND | 310000 | ug/kg | 46000 |
| Dichlorodifluoromethane | ND | 310000 | ug/kg | 39000 |
| 1,1-Dichloroethane | ND | 310000 | ug/kg | 63000 |
| 1,2-Dichloroethane | ND | 310000 | ug/kg | 59000 |
| 1,1-Dichloroethene | ND | 310000 | ug/kg | 66000 |
| 1,2-Dichloropropane | ND | 310000 | ug/kg | 79000 |
| cis-1,3-Dichloropropene | ND | 310000 | ug/kg | 45000 |
| trans-1,3-Dichloropropene | ND | 310000 | ug/kg | 36000 |
| Ethylbenzene | 140000 J | 310000 | ug/kg | 38000 |
| Methylene chloride | ND | 310000 | ug/kg | 67000 |
| 1,1,2,2-Tetrachloroethane | ND | 310000 | ug/kg | 58000 |
| Tetrachloroethene | ND | 310000 | ug/kg | 51000 |
| Toluene | 150000 J | 310000 | ug/kg | 52000 |
| 1,1,1-Trichloroethane | ND | 310000 | ug/kg | 64000 |
| 1,1,2-Trichloroethane | ND | 310000 | ug/kg | 72000 |
| Trichloroethene | ND | 310000 | ug/kg | 49000 |
| Trichlorofluoromethane | ND | 310000 | ug/kg | 69000 |
| Vinyl chloride | ND | 310000 | ug/kg | 80000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

Lot-Sample #...: C9E210170-003 Work Order #...: LDGN22AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 98 | (63 - 120) |
| Dibromofluoromethane | 101 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-004 | Work Order #....: LDGN31AA | Matrix.....: WATER |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: 9147303 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147485 | Analysis Time...: 13:24 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9E210170-004 Work Order #...: LDGN31AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 94 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 97 | (75 - 120) |
| Dibromofluoromethane | 99 | (80 - 120) |

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E210170

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B03-32 | 95 | 104 | 100 | 97 | 00 |
| 02 | BP-SO-DUP1 | 95 | 104 | 102 | 99 | 00 |
| 03 | BP-SO-B01-8 | 97 | 104 | 102 | 99 | 00 |
| 04 | BP-SO-B01-8 RE-1 | 97 | 102 | 98 | 101 | 00 |
| 05 | METHOD BLK. LDQMQLAA | 89 | 100 | 93 | 89 | 00 |
| 06 | LCS LDQMQLAC | 89 | 104 | 97 | 95 | 00 |
| 07 | LCSD LDQMQLAD | 92 | 104 | 99 | 97 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E210170

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 88 | 102 | 92 | 91 | 00 |
| 02 | TRIP BLANK | 94 | 99 | 97 | 99 | 00 |
| 03 | METHOD BLK. LDTPV1AA | 95 | 94 | 92 | 94 | 00 |
| 04 | LCS LDTPV1AC | 82 | 96 | 88 | 88 | 00 |
| 05 | LAB MS/MSD D | 84 | 97 | 90 | 90 | 00 |
| 06 | LAB MS/MSD S | 87 | 100 | 94 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E260000

WO #: LDQM01AC

BATCH: 9146557

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1940 | 97 | 59 - 129 | |
| Trichloroethene | 2000 | 1940 | 97 | 76 - 119 | |
| Benzene | 2000 | 1950 | 97 | 77 - 120 | |
| Toluene | 2000 | 2110 | 105 | 78 - 124 | |
| Chlorobenzene | 2000 | 2070 | 103 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E260000

WO #: LDQMQLAD

BATCH: 9146557

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1990 | 100 | 59 - 129 | |
| Trichloroethene | 2000 | 1930 | 97 | 76 - 119 | |
| Benzene | 2000 | 1980 | 99 | 77 - 120 | |
| Toluene | 2000 | 2130 | 107 | 78 - 124 | |
| Chlorobenzene | 2000 | 2120 | 106 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E270000

WO #: LDTPV1AC

BATCH: 9147485

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 33.0 | 82 | 69 - 127 | |
| Trichloroethene | 40.0 | 37.8 | 95 | 80 - 120 | |
| Benzene | 40.0 | 38.6 | 96 | 80 - 120 | |
| Toluene | 40.0 | 40.5 | 101 | 80 - 124 | |
| Chlorobenzene | 40.0 | 39.6 | 99 | 83 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160207

WO #: LC7661AC

BATCH: 9147485

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 33.8 | 84 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 37.5 | 94 | 80 - 120 | |
| Benzene | 40.0 | ND | 38.2 | 95 | 80 - 120 | |
| Toluene | 40.0 | ND | 40.5 | 101 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 39.8 | 99 | 83 - 120 | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ____0____ out of ____0____ outside limits

Spike Recovery: ____0____ out of ____5____ outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160207

WO #: LC7661AD

BATCH: 9147485

| COMPOUND | SPIKE ADDED | MSD CONCENT. | MSD % | QC LIMITS | QUAL |
|--------------------|----------------|-----------------|----------|-------------|------|
| | (ug/L) | (ug/L) | REC RPD | RPD REC | |
| 1,1-Dichloroethene | 40.0 | 32.1 | 80 5.2 | 20 69 - 127 | |
| Trichloroethene | 40.0 | 37.3 | 93 0.61 | 20 80 - 120 | |
| Benzene | 40.0 | 38.0 | 95 0.49 | 20 80 - 120 | |
| Toluene | 40.0 | 39.3 | 98 2.9 | 20 80 - 124 | |
| Chlorobenzene | 40.0 | 39.2 | 98 1.5 | 20 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ___0___ out of ___5___ outside limits

Spike Recovery: ___0___ out of ___5___ outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDQM01AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4052601.D

Lot Number: C9E210170

Date Analyzed: 05/26/09

Time Analyzed: 08:50

Matrix: SOLID

Date Extracted: 05/26/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-SO-B03-32 | LDGNP1AU | 4052612.D | 05/26/09 | 14:36 |
| 02 | BP-SO-DUP1 | LDGN11AU | 4052613.D | 05/26/09 | 14:59 |
| 03 | BP-SO-B01-8 | LDGN21AU | 4052614.D | 05/26/09 | 15:22 |
| 04 | BP-SO-B01-8 | LDGN22AU | 4052619.D | 05/26/09 | 17:16 |
| 05 | CHECK SAMPLE | LDQM01AC C | 4052602.D | 05/26/09 | 09:23 |
| 06 | DUPLICATE CHECK | LDQM01AD L | 4052603.D | 05/26/09 | 09:54 |
| 07 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E210170
MB Lot-Sample #: C9E260000-557

Work Order #...: LDQM01AA

Matrix.....: SOLID

Analysis Date...: 05/26/09
Dilution Factor: 1

Prep Date.....: 05/26/09
Prep Batch #...: 9146557
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 08:50
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|-------|--------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 5000 | ug/kg | SW846 | 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 | 8260B |
| Benzene | ND | 250 | ug/kg | SW846 | 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 | 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 | 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 | 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 | 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 | 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 | 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 | 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Toluene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 | 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E210170

Work Order #...: LDQM01AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 89 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDTPV1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7052701.D

Lot Number: C9E210170

Date Analyzed: 05/27/09

Time Analyzed: 10:32

Matrix: WATER

Date Extracted: 05/27/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LC7661AA | 7052703.D | 05/27/09 | 11:31 |
| 02 | LAB MS/MSD | LC7661AC S | 7052705.D | 05/27/09 | 12:28 |
| 03 | LAB MS/MSD | LC7661AD D | 7052706.D | 05/27/09 | 12:51 |
| 04 | TRIP BLANK | LDGN31AA | 7052707.D | 05/27/09 | 13:24 |
| 05 | CHECK SAMPLE | LDTPV1AC C | 7052704.D | 05/27/09 | 11:58 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C9E210170
MB Lot-Sample #: C9E270000-485

Work Order #....: LDTPV1AA

Matrix.....: WATER

Analysis Date...: 05/27/09
Dilution Factor: 1

Prep Date.....: 05/27/09
Prep Batch #....: 9147485
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 10:32
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| | | REPORTING | | |
|---------------------------|----------|------------|-------|-------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |
| | | | | |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| 1,2-Dichloroethane-d4 | 95 | (62 - 123) | | |
| Toluene-d8 | 94 | (80 - 120) | | |
| 4-Bromofluorobenzene | 92 | (75 - 120) | | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E210170

Work Order #...: LDTPV1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 94 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E210170
 Lab File ID (Standard): CC40526 Date Analyzed: 05/26/09
 Instrument ID: HP4 Time Analyzed: 0705
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 199031 | 10.76 | 365755 | 13.09 | 903812 | 7.68 |
| UPPER LIMIT | 398062 | 10.96 | 731510 | 13.29 | 1807624 | 7.88 |
| LOWER LIMIT | 99516 | 10.56 | 182878 | 12.89 | 451906 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 263149 | 10.76 | 473909 | 13.09 | 1236241 | 7.69 |
| 02 INTRA-LAB CH | 221418 | 10.76 | 395207 | 13.09 | 1022775 | 7.68 |
| 03 INTRA-LAB CH | 215585 | 10.76 | 402075 | 13.09 | 994509 | 7.68 |
| 04 BP-SO-B03-32 | 218225 | 10.77 | 389841 | 13.10 | 955262 | 7.69 |
| 05 BP-SO-DUP1 | 205407 | 10.76 | 374974 | 13.09 | 917282 | 7.68 |
| 06 BP-SO-B01-8 | 207438 | 10.76 | 375255 | 13.09 | 911654 | 7.68 |
| 07 BP-SO-B01-8 | 205814 | 10.77 | 357620 | 13.10 | 894960 | 7.69 |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E210170
 Lab File ID (Standard): CC70527 Date Analyzed: 05/27/09
 Instrument ID: HP7 Time Analyzed: 0705
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 337735 | 10.58 | 553642 | 12.91 | 1298640 | 7.49 |
| UPPER LIMIT | 675470 | 10.78 | 1107284 | 13.11 | 2597280 | 7.69 |
| LOWER LIMIT | 168868 | 10.38 | 276821 | 12.71 | 649320 | 7.29 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 405295 | 10.58 | 707556 | 12.91 | 1627872 | 7.50 |
| 02 INTRA-LAB CH | 363056 | 10.58 | 592447 | 12.91 | 1461747 | 7.50 |
| 03 TRIP BLANK | 350786 | 10.58 | 599236 | 12.91 | 1329602 | 7.50 |
| 04 | | | | | | |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------|--------------------------|
| Lot-Sample #....: C9E210170-001 | Work Order #....: LDGNP1AC | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: 9142050 |
| Prep Date.....: 05/22/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9142077 | Analysis Time...: 15:48 | |
| Dilution Factor: 10 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 30 | Analyst ID.....: 403801 | Instrument ID...: 732 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 760 | 96 | ug/kg | 14 |
| 2-Methylnaphthalene | 1800 | 96 | ug/kg | 19 |
| Naphthalene | 16000 | 96 | ug/kg | 14 |
| Acenaphthylene | 970 | 96 | ug/kg | 19 |
| Acenaphthene | 200 | 96 | ug/kg | 15 |
| Fluorene | 2300 | 96 | ug/kg | 14 |
| Phenanthrene | 4600 | 96 | ug/kg | 11 |
| Anthracene | 1500 | 470 | ug/kg | 17 |
| Fluoranthene | 4800 | 96 | ug/kg | 8.1 |
| Pyrene | 3200 | 96 | ug/kg | 25 |
| Benzo (a) anthracene | 2100 | 96 | ug/kg | 15 |
| Chrysene | 2100 | 96 | ug/kg | 17 |
| Benzo (b) fluoranthene | 1500 | 96 | ug/kg | 19 |
| Benzo (k) fluoranthene | 770 | 96 | ug/kg | 20 |
| Benzo (a) pyrene | 1400 | 96 | ug/kg | 27 |
| Indeno (1,2,3-cd) pyrene | 810 | 96 | ug/kg | 5.3 |
| Dibenzo (a,h) anthracene | 320 | 96 | ug/kg | 21 |
| Benzo (ghi) perylene | 930 | 96 | ug/kg | 7.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Semivolatiles

| | | |
|--|------------------------------------|----------------------------------|
| Lot-Sample #... : C9E210170-002 | Work Order #... : LDGN11AC | Matrix..... : SOLID |
| Date Sampled... : 05/20/09 | Date Received... : 05/21/09 | MS Run #..... : 9142050 |
| Prep Date..... : 05/22/09 | Analysis Date... : 05/27/09 | |
| Prep Batch #... : 9142077 | Analysis Time... : 16:08 | |
| Dilution Factor: 9.93 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 36 | Analyst ID..... : 403801 | Instrument ID... : 732 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 860 | 100 | ug/kg | 16 |
| 2-Methylnaphthalene | 2000 | 100 | ug/kg | 20 |
| Naphthalene | 17000 | 100 | ug/kg | 15 |
| Acenaphthylene | 1000 | 100 | ug/kg | 21 |
| Acenaphthene | 230 | 100 | ug/kg | 17 |
| Fluorene | 2400 | 100 | ug/kg | 16 |
| Phenanthrene | 4400 | 100 | ug/kg | 12 |
| Anthracene | 1400 | 510 | ug/kg | 18 |
| Fluoranthene | 4800 | 100 | ug/kg | 8.8 |
| Pyrene | 3300 | 100 | ug/kg | 28 |
| Benzo (a) anthracene | 2200 | 100 | ug/kg | 17 |
| Chrysene | 2200 | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 1800 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | 530 | 100 | ug/kg | 22 |
| Benzo (a) pyrene | 1400 | 100 | ug/kg | 29 |
| Indeno (1,2,3-cd) pyrene | 820 | 100 | ug/kg | 5.7 |
| Dibenzo (a,h) anthracene | 340 | 100 | ug/kg | 23 |
| Benzo (ghi) perylene | 930 | 100 | ug/kg | 7.6 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------|--------------------------|
| Lot-Sample #....: C9E210170-003 | Work Order #....: LDGN21AC | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: 9142050 |
| Prep Date.....: 05/22/09 | Analysis Date...: 05/23/09 | |
| Prep Batch #....: 9142077 | Analysis Time...: 11:08 | |
| Dilution Factor: 15 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 22 | Analyst ID.....: 403801 | Instrument ID...: 732 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3700 | 130 | ug/kg | 19 |
| 2-Methylnaphthalene | 7400 | 130 | ug/kg | 25 |
| Naphthalene | 40000 E | 130 | ug/kg | 19 |
| Acenaphthylene | 4100 | 130 | ug/kg | 25 |
| Acenaphthene | 940 | 130 | ug/kg | 21 |
| Fluorene | 11000 | 130 | ug/kg | 19 |
| Phenanthrene | 27000 E | 130 | ug/kg | 15 |
| Anthracene | 8400 | 630 | ug/kg | 22 |
| Fluoranthene | 31000 E | 130 | ug/kg | 11 |
| Pyrene | 16000 | 130 | ug/kg | 34 |
| Benzo (a) anthracene | 12000 | 130 | ug/kg | 20 |
| Chrysene | 13000 | 130 | ug/kg | 22 |
| Benzo (b) fluoranthene | 12000 | 130 | ug/kg | 26 |
| Benzo (k) fluoranthene | 5500 | 130 | ug/kg | 27 |
| Benzo (a) pyrene | 9700 | 130 | ug/kg | 36 |
| Indeno (1,2,3-cd) pyrene | 5900 | 130 | ug/kg | 7.0 |
| Dibenzo (a,h) anthracene | 2000 | 130 | ug/kg | 28 |
| Benzo (ghi) perylene | 6200 | 130 | ug/kg | 9.4 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Semivolatiles

| | | |
|--|------------------------------------|----------------------------------|
| Lot-Sample #... : C9E210170-003 | Work Order #... : LDGN22AC | Matrix..... : SOLID |
| Date Sampled... : 05/20/09 | Date Received.. : 05/21/09 | MS Run #..... : 9142050 |
| Prep Date..... : 05/22/09 | Analysis Date... : 05/27/09 | |
| Prep Batch #... : 9142077 | Analysis Time... : 14:47 | |
| Dilution Factor : 50 | Initial Wgt/Vol : 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 22 | Analyst ID..... : 403801 | Instrument ID... : 732 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2400 | 430 | ug/kg | 64 |
| 2-Methylnaphthalene | 4400 | 430 | ug/kg | 84 |
| Naphthalene | 29000 | 430 | ug/kg | 62 |
| Acenaphthylene | 2300 | 430 | ug/kg | 85 |
| Acenaphthene | 560 | 430 | ug/kg | 68 |
| Fluorene | 7600 | 430 | ug/kg | 64 |
| Phenanthrene | 18000 | 430 | ug/kg | 51 |
| Anthracene | 4900 | 2100 | ug/kg | 75 |
| Fluoranthene | 18000 | 430 | ug/kg | 36 |
| Pyrene | 11000 | 430 | ug/kg | 110 |
| Benzo (a) anthracene | 7500 | 430 | ug/kg | 68 |
| Chrysene | 7000 | 430 | ug/kg | 74 |
| Benzo (b) fluoranthene | 5800 | 430 | ug/kg | 86 |
| Benzo (k) fluoranthene | 4000 | 430 | ug/kg | 89 |
| Benzo (a) pyrene | 5500 | 430 | ug/kg | 120 |
| Indeno (1,2,3-cd) pyrene | 3800 | 430 | ug/kg | 23 |
| Dibenzo (a,h) anthracene | 1200 | 430 | ug/kg | 94 |
| Benzo (ghi) perylene | 4300 | 430 | ug/kg | 31 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E210170

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B03-32 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-DUP1 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B01-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | BP-SO-B01-8 RE-1 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | METHOD BLK. LDJLT1AA | 68 | 100 | 58 | 68 | 70 | 68 | 00 |
| 06 | LCS LDJLT1AC | 66 | 88 | 65 | 70 | 70 | 70 | 00 |
| 07 | BP-SO-B01-8 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | BP-SO-B01-8 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E220000

WO #: LDJLT1AC

BATCH: 9142077

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Butyl benzyl phthalate | 333 | 242 | 73 | 40 - 117 | |
| Phenol | 333 | 216 | 65 | 39 - 105 | |
| 2-Chlorophenol | 333 | 217 | 65 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 216 | 65 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 228 | 68 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 215 | 64 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 228 | 68 | 43 - 110 | |
| Acenaphthene | 333 | 221 | 66 | 42 - 104 | |
| 4-Nitrophenol | 333 | 247 | 74 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 241 | 72 | 48 - 118 | |
| Pentachlorophenol | 333 | 227 | 68 | 18 - 125 | |
| Pyrene | 333 | 273 | 82 | 39 - 113 | |
| 4-Methylphenol | 667 | 441 | 66 | 43 - 107 | |
| Hexachloroethane | 333 | 210 | 63 | 40 - 102 | |
| Naphthalene | 333 | 215 | 65 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 211 | 63 | 43 - 111 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-8

Level: (low/med) LOW

Lot #: C9E210170

WO #: LDGN21AV

BATCH: 9142077

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Phenol | 426 | ND | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 426 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 426 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 426 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 426 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 426 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 426 | 940 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 426 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 426 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 426 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 426 | 16000 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 851 | 230 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 426 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 426 | 40000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 426 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 426 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ____0 out of ____0 outside limits

Spike Recovery: ____16 out of ____16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-8

Level: (low/med) LOW

Lot #: C9E210170

WO #: LDGN21AW

BATCH: 9142077

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Phenol | 426 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 426 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 426 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 426 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 426 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 426 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 426 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 426 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 426 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 426 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 426 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 851 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 426 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 426 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 426 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 426 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDJLT1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: D0523002.

Lot Number: C9E210170

Date Analyzed: 05/23/09

Time Analyzed: 10:07

Matrix: SOLID

Date Extracted:05/22/09

GC Column: DB5 ID: .32

Extraction Method:

Instrument ID: 732

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-----------------|------------------------|----------------|------------------|------------------|
| ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B03-32 | LDGNP1AC | D0527007. | 05/27/09 | 15:48 |
| 02 BP-SO-DUP1 | LDGN11AC | D0527008. | 05/27/09 | 16:08 |
| 03 BP-SO-B01-8 | LDGN21AC | D0523004. | 05/23/09 | 11:08 |
| 04 BP-SO-B01-8 | LDGN21AV S | D0527005. | 05/27/09 | 15:07 |
| 05 BP-SO-B01-8 | LDGN21AW D | D0527006. | 05/27/09 | 15:28 |
| 06 BP-SO-B01-8 | LDGN22AC | D0527011. | 05/27/09 | 14:47 |
| 07 CHECK SAMPLE | LDJLT1AC C | D0523003. | 05/23/09 | 10:27 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9E210170
 MB Lot-Sample #: C9E220000-077

Work Order #...: LDJLT1AA

Matrix.....: SOLID

Analysis Date...: 05/23/09
 Dilution Factor: 0.5

Prep Date.....: 05/22/09
 Prep Batch #...: 9142077
 Initial Wgt/Vol: 30 g
 Analyst ID.....: 403801

Analysis Time...: 10:07
 Final Wgt/Vol...: 0.5 mL
 Instrument ID...: 732

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|--------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 68 | (27 - 110) |
| Terphenyl-d14 | 100 | (21 - 130) |
| 2-Fluorobiphenyl | 58 | (28 - 108) |
| 2-Fluorophenol | 68 | (28 - 107) |
| Phenol-d5 | 70 | (30 - 112) |
| 2,4,6-Tribromophenol | 68 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C9E210170
Lab File ID (Standard): D0523CC2 Date Analyzed: 05/23/09
Instrument ID: 732 Time Analyzed: 0946

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 61606 | 3.86 | 278154 | 4.83 | 201905 | 6.15 |
| UPPER LIMIT | 123212 | 4.36 | 556308 | 5.33 | 403810 | 6.65 |
| LOWER LIMIT | 30803 | 3.36 | 139077 | 4.33 | 100953 | 5.65 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 60905 | 3.86 | 261626 | 4.83 | 208241 | 6.15 |
| 02 INTRA-LAB CH | 60205 | 3.86 | 281543 | 4.83 | 208324 | 6.16 |
| 03 BP-SO-B01-8 | 60287 | 3.86 | 265203 | 4.83 | 210371 | 6.15 |
| 04 | | | | | | |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C9E210170
 Lab File ID (Standard): D0523CC2 Date Analyzed: 05/23/09
 Instrument ID: 732 Time Analyzed: 0946

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 437511 | 7.27 | 280677 | 9.26 | 227365 | 10.28 |
| UPPER LIMIT | 875022 | 7.77 | 561354 | 9.76 | 454730 | 10.78 |
| LOWER LIMIT | 218756 | 6.77 | 140339 | 8.76 | 113683 | 9.78 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 424141 | 7.27 | 252932 | 9.26 | 204176 | 10.28 |
| 02 INTRA-LAB CH | 426909 | 7.27 | 359469 | 9.26 | 259810 | 10.29 |
| 03 BP-SO-B01-8 | 381316 | 7.27 | 524176 | 9.26 | 453997 | 10.30 |
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IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C9E210170
Lab File ID (Standard): D0527CC2 Date Analyzed: 05/27/09
Instrument ID: 732 Time Analyzed: 1305

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 66433 | 3.86 | 300514 | 4.82 | 226363 | 6.14 |
| UPPER LIMIT | 132866 | 4.36 | 601028 | 5.32 | 452726 | 6.64 |
| LOWER LIMIT | 33217 | 3.36 | 150257 | 4.32 | 113182 | 5.64 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B01-8D | 76807 | 3.86 | 324031 | 4.82 | 258013 | 6.14 |
| 02 BP-SO-B01-8 | 68303 | 3.86 | 282137 | 4.83 | 226604 | 6.15 |
| 03 BP-SO-B01-8 | 64272 | 3.86 | 273144 | 4.82 | 215505 | 6.15 |
| 04 BP-SO-B03-32 | 59138 | 3.86 | 263950 | 4.82 | 213165 | 6.15 |
| 05 BP-SO-DUP1 | 51576 | 3.86 | 232460 | 4.82 | 198895 | 6.15 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C9E210170
Lab File ID (Standard): D0527CC2 Date Analyzed: 05/27/09
Instrument ID: 732 Time Analyzed: 1305

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 447821 | 7.26 | 451094 | 9.26 | 429613 | 10.31 |
| UPPER LIMIT | 895642 | 7.76 | 902188 | 9.76 | 859226 | 10.81 |
| LOWER LIMIT | 223911 | 6.76 | 225547 | 8.76 | 214807 | 9.81 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B01-8D | 528561 | 7.27 | 548504 | 9.26 | 565263 | 10.30 |
| 02 BP-SO-B01-8 | 382286 | 7.27 | 460759 | 9.27 | 575165 | 10.32 |
| 03 BP-SO-B01-8 | 388244 | 7.27 | 466277 | 9.27 | 515043 | 10.31 |
| 04 BP-SO-B03-32 | 403284 | 7.27 | 456983 | 9.27 | 521568 | 10.31 |
| 05 BP-SO-DUP1 | 409858 | 7.27 | 444257 | 9.27 | 509620 | 10.31 |
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

TOTAL Metals

Lot-Sample #...: C9E210170-001

Matrix.....: SOLID

Date Sampled...: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 30

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9142458 | | | | | | |
| Silver | 1.9 J | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0086 | |
| Arsenic | 17.4 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.059 | |
| Beryllium | 0.66 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |
| Cadmium | 5.1 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |
| Chromium | 1140 J | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.029 | |
| Copper | 88.1 | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.030 | |
| Nickel | 22.6 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.024 | |
| Lead | 930 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |
| Antimony | 2.4 J | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

TOTAL Metals

Lot-Sample #....: C9E210170-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.5 B | 1.8 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.15 | |
| Thallium | 1.5 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0072 | |
| Zinc | 1430 | 1.8 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.042 | |

Prep Batch #....: 9146208

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.84 | 0.024 | mg/kg | SW846 7471A | 05/26/09 | LDGNP1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:11 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0078 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

TOTAL Metals

Lot-Sample #...: C9E210170-002

Matrix.....: SOLID

Date Sampled...: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 36

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9142458 | | | | | | |
| Silver | 1.8 J | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0094 | |
| Arsenic | 16.8 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.065 | |
| Beryllium | 0.57 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.014 | |
| Cadmium | 4.7 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | |
| Chromium | 1010 J | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.031 | |
| Copper | 85.4 | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |
| Nickel | 21.2 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Lead | 902 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |
| Antimony | 2.3 J | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

TOTAL Metals

Lot-Sample #....: C9E210170-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.7 B | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.16 | |
| Thallium | 1.5 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0078 | |
| Zinc | 1430 | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.046 | |

Prep Batch #....: 9146208

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.74 | 0.026 | mg/kg | SW846 7471A | 05/26/09 | LDGN11AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:13 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0085 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

TOTAL Metals

Lot-Sample #....: C9E210170-003

Matrix.....: SOLID

Date Sampled...: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 22

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9142458 | | | | | | |
| Silver | 0.41 J | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0077 | |
| Arsenic | 16.5 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.053 | |
| Beryllium | 1.1 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |
| Cadmium | 1.7 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.029 | |
| Chromium | 309 J | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.026 | |
| Copper | 148 | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Nickel | 280 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.022 | |
| Lead | 330 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |
| Antimony | 1.1 J | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

TOTAL Metals

Lot-Sample #...: C9E210170-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.8 | 1.6 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.13 | |
| Thallium | 0.29 B | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0064 | |
| Zinc | 406 | 1.6 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.037 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|-----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 2.3 | 0.21 | mg/kg | SW846 7471A | 05/26/09 | LDGN21AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:35 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.070 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|----------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9E220000-458 Prep Batch #...: 9142458 | | | | | | |
| Antimony | 0.0094 B | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.0084 B | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | 0.013 B | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9E210170

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

MB Lot-Sample #: C9E260000-208 **Prep Batch #....:** 9146208

| | | | | | | |
|---------|----|-------------------------|-------|-------------------------|----------|-----------------------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDPKH1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:44 | | Analyst ID.....: 403938 | | Instrument ID...: HGH |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------------|--------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9E220000-458 Prep Batch #...: 9142458 | | | | | |
| Arsenic | 84 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AP | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 89 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AQ | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 96 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AR | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 108 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AT | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 86 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AU | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 91 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AV | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 107 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AW | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 91 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AX | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 90 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AO | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 100 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1A1 | |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9E210170

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|------------------|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| Zinc | 84 | (80 - 120) | SW846 6020 | 05/22-05/25/09 | LDMEH1A2 |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 101 | (80 - 120) | SW846 6020 | 05/22-05/25/09 | LDMEH1A3 |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: | C9E260000-208 | Prep Batch #....: 9146208 | | | |
| Mercury | 91 | (80 - 120) | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|--------------------------|------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9E220000-458 Prep Batch #...: 9142458 | | | | | | | |
| Arsenic | 2.00 | 1.69 | mg/kg | 84 | SW846 6020 | 05/22-05/25/09 | LDMEH1AP |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Beryllium | 2.50 | 2.22 | mg/kg | 89 | SW846 6020 | 05/22-05/25/09 | LDMEH1AQ |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Cadmium | 2.50 | 2.41 | mg/kg | 96 | SW846 6020 | 05/22-05/25/09 | LDMEH1AR |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Chromium | 10.0 | 10.8 | mg/kg | 108 | SW846 6020 | 05/22-05/25/09 | LDMEH1AT |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Copper | 12.5 | 10.8 | mg/kg | 86 | SW846 6020 | 05/22-05/25/09 | LDMEH1AU |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Nickel | 25.0 | 22.7 | mg/kg | 91 | SW846 6020 | 05/22-05/25/09 | LDMEH1AV |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Lead | 1.00 | 1.07 | mg/kg | 107 | SW846 6020 | 05/22-05/25/09 | LDMEH1AW |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Antimony | 25.0 | 22.8 | mg/kg | 91 | SW846 6020 | 05/22-05/25/09 | LDMEH1AX |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Selenium | 0.500 | 0.449 | mg/kg | 90 | SW846 6020 | 05/22-05/25/09 | LDMEH1A0 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Thallium | 2.50 | 2.49 | mg/kg | 100 | SW846 6020 | 05/22-05/25/09 | LDMEH1A1 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| Zinc | 25.0 | 20.9 | mg/kg | 84 | SW846 6020 | 05/22-05/25/09 | LDMEH1A2 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Silver | 2.50 | 2.53 | mg/kg | 101 | SW846 6020 | 05/22-05/25/09 | LDMEH1A3 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: C9E260000-208 Prep Batch #...: 9146208 | | | | | | | |
| Mercury | 0.208 | 0.190 | mg/kg | 91 | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | | | Instrument ID...: HGHYDRA | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9142458 | | | | | | |
| | | | | | % Moisture.....: 25 | |
| Antimony | 52 N | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A8 |
| | 50 N | (75 - 125) | 3.0 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A9 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Arsenic | 310 N | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AJ |
| | 118 * | (75 - 125) | 44 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AK |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Beryllium | 83 | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AM |
| | 84 | (75 - 125) | 0.93 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AN |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Cadmium | 98 | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AQ |
| | 90 | (75 - 125) | 6.6 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AR |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Chromium | NC | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AU |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AV |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Copper | 434 N | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AX |
| | 191 N, * | (75 - 125) | 47 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A0 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A5 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A6 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| Nickel | 31 N | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A2 |
| | 51 N | (75 - 125) | 13 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A3 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Selenium | 7.4 N | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CC |
| | 0.0 N | (75 - 125) | 0.0 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CD |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Silver | 95 | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CM |
| | 93 | (75 - 125) | 2.4 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CN |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Thallium | 97 | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CF |
| | 97 | (75 - 125) | 0.15 (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CG |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |
| Zinc | NC | (75 - 125) | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CJ |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CK |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9142255 | | | | | | |

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

| | | | | | | |
|---|----|------------|--------|-------------|----------|----------|
| Mercury | NC | (75 - 125) | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | NC | (75 - 125) | (0-20) | SW846 7471A | 05/26/09 | LDLQQ1CR |
| Dilution Factor: 25 | | | | | | |
| Analysis Time...: 15:28 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | |
| MS Run #.....: 9146128 | | | | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9142458

% Moisture.....: 25

Antimony

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 1.2 | 33.5 | 18.6 N | mg/kg | 52 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A8 |
| 1.2 | 33.5 | 18.1 N | mg/kg | 50 | 3.0 | SW846 6020 | 05/22-05/25/09 | LDLQQ1A9 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

Arsenic

| | | | | | | | | |
|--|------|--------|-------|-----|----|------------|----------------|----------|
| 6.0 | 2.68 | 14.4 N | mg/kg | 310 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AJ |
| 6.0 | 2.68 | 9.20 * | mg/kg | 118 | 44 | SW846 6020 | 05/22-05/25/09 | LDLQQ1AK |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

Beryllium

| | | | | | | | | |
|--|------|------|-------|----|------|------------|----------------|----------|
| 0.66 | 3.35 | 3.44 | mg/kg | 83 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AM |
| 0.66 | 3.35 | 3.47 | mg/kg | 84 | 0.93 | SW846 6020 | 05/22-05/25/09 | LDLQQ1AN |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

Cadmium

| | | | | | | | | |
|--|------|------|-------|----|-----|------------|----------------|----------|
| 0.92 | 3.35 | 4.22 | mg/kg | 98 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AQ |
| 0.92 | 3.35 | 3.95 | mg/kg | 90 | 6.6 | SW846 6020 | 05/22-05/25/09 | LDLQQ1AR |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

Chromium

| | | | | | | | | |
|--|------|---------|-------|--|--|------------|----------------|----------|
| 57.9 | 13.4 | 43.7 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AU |
| 57.9 | 13.4 | 48.0 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AV |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

Copper

| | | | | | | | | |
|--|------|-------|-------|-----|----|------------|----------------|----------|
| 35.1 | 16.8 | 108 N | mg/kg | 434 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AX |
| 35.1 | 16.8 | 67.1 | mg/kg | 191 | 47 | SW846 6020 | 05/22-05/25/09 | LDLQQ1A0 |
| Qualifiers: N,* | | | | | | | | |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|-------|--------------------------|------|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 173 | 1.34 | 186 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A5 |
| | 173 | 1.34 | 205 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A6 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Nickel | | | | | | | | | |
| | 35.7 | 33.5 | 46.2 N | mg/kg | 31 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A2 |
| | 35.7 | 33.5 | 52.7 N | mg/kg | 51 | 13 | SW846 6020 | 05/22-05/25/09 | LDLQQ1A3 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Selenium | | | | | | | | | |
| | 1.8 | 0.671 | 1.88 N | mg/kg | 7.4 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CC |
| | 1.8 | 0.671 | 1.77 N | mg/kg | 0.0 | 0.0 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CD |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Silver | | | | | | | | | |
| | 0.26 | 3.35 | 3.45 | mg/kg | 95 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CM |
| | 0.26 | 3.35 | 3.37 | mg/kg | 93 | 2.4 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CN |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.18 | 3.35 | 3.42 | mg/kg | 97 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CF |
| | 0.18 | 3.35 | 3.42 | mg/kg | 97 | 0.15 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CG |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Zinc | | | | | | | | | |
| | 309 | 33.5 | 447 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CJ |
| | 309 | 33.5 | 398 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CK |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E210170

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------|-----------|---------------|-------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 10.0 | 0.112 | 15.7 NC | mg/kg | | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | 10.0 | 0.112 | 14.9 NC | mg/kg | | | SW846 7471A | 05/26/09 | LDLQQ1CR |
| Dilution Factor: 25 | | | | | | | | | |
| Analysis Time...: 15:28 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | | | | |
| MS Run #.....: 9146128 | | | | | | | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E210170

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-32 | C9E210170 001 | LDGNP1AT | 17.8 | mg/kg | 0.12 | 0.72 | 1 | 5/29/2009 - 5/30/2009 15:58 | 9149038 |
| BP-SO-DUP1 | C9E210170 002 | LDGN11AT | 19.2 | mg/kg | 0.13 | 0.78 | 1 | 5/29/2009 - 5/30/2009 15:58 | 9149038 |
| BP-SO-B01-8 | C9E210170 003 | LDGN21AT | 48.2 | mg/kg | 1.1 | 6.4 | 10 | 5/29/2009 - 5/30/2009 16:24 | 9149038 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9E210170

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-32 | C9E210170 001 | LDGNP1AA | 69.7 | % | 0.0 | 1.0 | 1 | 5/22/2009 - 5/23/2009 07:30 | 9142297 |
| BP-SO-DUP1 | C9E210170 002 | LDGN11AA | 63.9 | % | 0.0 | 1.0 | 1 | 5/22/2009 - 5/23/2009 07:30 | 9142297 |
| BP-SO-B01-8 | C9E210170 003 | LDGN21AA | 78.3 | % | 0.0 | 1.0 | 1 | 5/22/2009 - 5/23/2009 07:30 | 9142297 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
Client Name: Maryland Environmental Service
Matrix: SOLID

Method: SW846 9012A
Report ID: C9E210170
Date/Time Received: 5/21/2009 9:50:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BLK - C9E290000038B | 038 MB | LDXXV1AA | ND | mg/kg | 0.50 | 5/29/2009 - 5/30/2009 15:50 | 9149038 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E210170

Matrix: SOLID

Date/Time Received: 5/21/2009 9:50:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BP-SO-B03-32 DUP | 001 DUP | LDGNP1AV | 68.1 | % | 1.0 | 5/22/2009 - 5/23/2009 07:30 | 9142297 | 2.3 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9E290000
 Date/Time Received: 5/21/2009 9:50:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LDXXV1AC | 109 | 38 - 162 | 5/29/2009 - 5/30/2009 15:50 | 9149038 | |
| LAB MS/MSD | MS | LDENQ1DR | 53 N | 85 - 115 | 5/29/2009 - 5/30/2009 16:44 | 9149038 | 15 / 20 |
| BP-SO-B03-32 | MS | LDGNP1AW | 258 N | 85 - 115 | 5/29/2009 - 5/30/2009 15:58 | 9149038 | 47 / 20 |
| LAB MS/MSD | MSD | LDENQ1DT | 62 N | 85 - 115 | 5/29/2009 - 5/30/2009 16:44 | 9149038 | 15 / 20 |
| BP-SO-B03-32 | MSD | LDGNP1AX | 67 N * | 85 - 115 | 5/29/2009 - 5/30/2009 15:58 | 9149038 | 47 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E210170

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-32 | C9E210170-001 | Soil |
| 1MS | BP-SO-B03-32MS | C9E210170-001MS | Soil |
| 1MSD | BP-SO-B03-32MSD | C9E210170-001MSD | Soil |
| 2 | BP-SO-DUP1 | C9E210170-002 | Soil |
| 3 | BP-SO-B01-8 | C9E210170-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| 1 | Cyanide | 258%/67%/47 | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B03-32 mg/kg | BP-SO-DUP1 mg/kg | RPD | Qualifier |
|----------|-----------------------|---------------------|-----|-----------|
| Cyanide | 17.8 | 19.2 | 8% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

EDS sample ID #3 was analyzed at a 10X dilution for cyanide.

MES Sparrows Point 18001868

Cyanide, Total

1-3

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

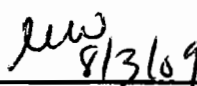
Client Name: Maryland Environmental Service

Lot Number: C9E210170

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-32 | C9E210170 001 | LDGNP1AT | L 17.8 | mg/kg | 0.12 | 0.72 | 1 | 5/29/2009 - 5/30/2009 15:58 | 9149038 |
| BP-SO-DUP1 | C9E210170 002 | LDGN11AT | L 19.2 | mg/kg | 0.13 | 0.78 | 1 | 5/29/2009 - 5/30/2009 15:58 | 9149038 |
| BP-SO-B01-8 | C9E210170 003 | LDGN21AT | L 48.2 | mg/kg | 1.1 | 6.4 | 10 | 5/29/2009 - 5/30/2009 16:24 | 9149038 |


 8/3/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E210170

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-32 | C9E210170-001 | Soil |
| 2 | BP-SO-DUP1 | C9E210170-002 | Soil |
| 3 | BP-SO-B01-8 | C9E210170-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| Reference | Antimony | 52%/50%/Ok | L/UL | All samples |
| | Arsenic | 310%/Ok/44 | K | All samples |
| | Copper | 434%/191%/47 | K | All samples |
| | Nickel | 31%/51%/Ok | L/UL | All samples |
| | Selenium | 7.4%/0.0%/Ok | L/R | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B03-32 mg/kg | BP-SO-DUP1 mg/kg | RPD | Qualifier |
|-----------|-----------------------|---------------------|-----|-----------|
| Silver | 1.9 | 1.8 | 5% | None |
| Arsenic | 17.4 | 16.8 | 4% | None |
| Beryllium | 0.66 | 0.57 | 15% | None |
| Cadmium | 5.1 | 4.7 | 8% | None |
| Chromium | 1140 | 1010 | 12% | None |
| Copper | 88.1 | 85.4 | 3% | None |
| Nickel | 22.6 | 21.2 | 6% | None |
| Lead | 930 | 902 | 3% | None |
| Antimony | 2.4 | 2.3 | 4% | None |
| Selenium | 1.5 | 1.7 | 13% | None |
| Thallium | 1.5 | 1.5 | 0% | None |
| Zinc | 1430 | 1430 | 0% | None |
| Mercury | 0.84 | 0.74 | 13% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

TOTAL Metals

Lot-Sample #...: C9E210170-001

Matrix.....: SOLID

Date Sampled...: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 30

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #...: 9142458 | | | | | | |
| Silver | 1.9 <i>f</i> | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0086 |
| Arsenic | 17.4 <i>K</i> | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.059 |
| Beryllium | 0.66 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.013 |
| Cadmium | 5.1 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.033 |
| Chromium | 1140 <i>f</i> | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.029 |
| Copper | 88.1 <i>K</i> | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.030 |
| Nickel | 22.6 <i>L</i> | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.024 |
| Lead | 930 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.012 |
| Antimony | 2.4 <i>f L</i> | 0.72 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.012 |

(Continued on next page)

hw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

TOTAL Metals

Lot-Sample #...: C9E210170-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.5 B L | 1.8 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.15 | |
| Thallium | 1.5 | 0.36 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0072 | |
| Zinc | 1430 | 1.8 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGNP1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.042 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.84 | 0.024 | mg/kg | SW846 7471A | 05/26/09 | LDGNP1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:11 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0078 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

NW
8/3/09
55

Maryland Environmental Service

2

Client Sample ID: BP-SO-DUP1

TOTAL Metals

Lot-Sample #....: C9E210170-002

Matrix.....: SOLID


Date Sampled....: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 36

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | | WORK |
|---------------------------|---------|--------------------------|-------|-------------------------|-------------------------|----------|------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # | |
| Prep Batch #....: 9142458 | | | | | | | |
| Silver | 1.8 ✓ | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AQ | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0094 | | |
| Arsenic | 16.8 K | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AD | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.065 | | |
| Beryllium | 0.57 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AE | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.014 | | |
| Cadmium | 4.7 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AF | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | | |
| Chromium | 1010 ✓ | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AG | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.031 | | |
| Copper | 85.4 K | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AH | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | | |
| Nickel | 21.2 L | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AJ | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | | |
| Lead | 902 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AK | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | | |
| Antimony | 2.3 b L | 0.78 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AL | |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | | |

(Continued on next page)


 8/13/09

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

TOTAL Metals

Lot-Sample #...: C9E210170-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.7 B L | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.16 | |
| Thallium | 1.5 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0078 | |
| Zinc | 1430 | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN11AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:54 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.046 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.74 | 0.026 | mg/kg | SW846 7471A | 05/26/09 | LDGN11AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:13 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0085 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

hw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

TOTAL Metals

Lot-Sample #...: C9E210170-003

Matrix.....: SOLID

Date Sampled...: 05/20/09

Date Received...: 05/21/09

% Moisture.....: 22

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| | | LIMIT | UNITS | | | |
| Prep Batch #...: 9142458 | | | | | | |
| Silver | 0.41 J | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0077 | |
| Arsenic | 16.5 K | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.053 | |
| Beryllium | 1.1 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |
| Cadmium | 1.7 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.029 | |
| Chromium | 309 f | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.026 | |
| Copper | 148 K | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Nickel | 280 L | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.022 | |
| Lead | 330 | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |
| Antimony | 1.1 f L | 0.64 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

TOTAL Metals

Lot-Sample #...: C9E210170-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.8 L | 1.6 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.13 | |
| Thallium | 0.29 J | 0.32 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0064 | |
| Zinc | 406 | 1.6 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDGN21AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:58 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.037 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|-----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 2.3 | 0.21 | mg/kg | SW846 7471A | 05/26/09 | LDGN21AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:35 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.070 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

MS
8/3/09

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E210170

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-32 | C9E210170-001 | Soil |
| 2 | BP-SO-DUP1 | C9E210170-002 | Soil |
| 3 | BP-SO-B01-8 | C9E210170-003 | Soil |
| 3MS | BP-SO-B01-8MS | C9E210170-003MS | Soil |
| 3MSD | BP-SO-B01-8MSD | C9E210170-003MSD | Soil |
| 3DL | BP-SO-B01-8DL | C9E210170-003DL | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B03-32 ug/kg | BP-SO-DUP1 ug/kg | RPD | Qualifier |
|--------------------------|-----------------------|---------------------|-----|-----------|
| 1-Methylnaphthalene | 760 | 860 | 12% | None |
| 2-Methylnaphthalene | 1800 | 2000 | 11% | None |
| Naphthalene | 16000 | 17000 | 6% | None |
| Acenaphthylene | 970 | 1000 | 3% | None |
| Acenaphthene | 200 | 230 | 14% | None |
| Fluorene | 2300 | 2400 | 4% | None |
| Phenanthrene | 4600 | 4400 | 4% | None |
| Anthracene | 1500 | 1400 | 7% | None |
| Fluoranthene | 4800 | 4800 | 0% | None |
| Pyrene | 3200 | 3300 | 3% | None |
| Benzo (a) anthracene | 2100 | 2200 | 5% | None |
| Chrysene | 2100 | 2200 | 5% | None |
| Benzo (b) fluoranthene | 1500 | 1800 | 18% | None |
| Benzo (k) fluoranthene | 770 | 530 | 37% | None |
| Benzo (a) pyrene | 1400 | 1400 | 0% | None |
| Indeno (1,2,3-cd) pyrene | 810 | 820 | 1% | None |
| Dibenzo (a,h) anthracene | 320 | 340 | 6% | None |
| Benzo (g,h,i) perylene | 930 | 930 | 0% | None |

Compound Quantitation - EDS sample ID # 3 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed this sample. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Semivolatiles

Lot-Sample #....: C9E210170-001 Work Order #....: LDGNP1AC Matrix.....: SOLID
 Date Sampled....: 05/20/09 Date Received...: 05/21/09 MS Run #.....: 9142050
 Prep Date.....: 05/22/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9142077 Analysis Time...: 15:48
 Dilution Factor: 10 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 30 Analyst ID.....: 403801 Instrument ID...: 732
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 760 | 96 | ug/kg | 14 |
| 2-Methylnaphthalene | 1800 | 96 | ug/kg | 19 |
| Naphthalene | 16000 | 96 | ug/kg | 14 |
| Acenaphthylene | 970 | 96 | ug/kg | 19 |
| Acenaphthene | 200 | 96 | ug/kg | 15 |
| Fluorene | 2300 | 96 | ug/kg | 14 |
| Phenanthrene | 4600 | 96 | ug/kg | 11 |
| Anthracene | 1500 | 470 | ug/kg | 17 |
| Fluoranthene | 4800 | 96 | ug/kg | 8.1 |
| Pyrene | 3200 | 96 | ug/kg | 25 |
| Benzo(a)anthracene | 2100 | 96 | ug/kg | 15 |
| Chrysene | 2100 | 96 | ug/kg | 17 |
| Benzo(b)fluoranthene | 1500 | 96 | ug/kg | 19 |
| Benzo(k)fluoranthene | 770 | 96 | ug/kg | 20 |
| Benzo(a)pyrene | 1400 | 96 | ug/kg | 27 |
| Indeno(1,2,3-cd)pyrene | 810 | 96 | ug/kg | 5.3 |
| Dibenzo(a,h)anthracene | 320 | 96 | ug/kg | 21 |
| Benzo(ghi)perylene | 930 | 96 | ug/kg | 7.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

lw
 8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Semivolatiles

Lot-Sample #....: C9E210170-002 Work Order #....: LDGN11AC Matrix.....: SOLID
 Date Sampled....: 05/20/09 Date Received...: 05/21/09 MS Run #.....: 9142050
 Prep Date.....: 05/22/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9142077 Analysis Time...: 16:08
 Dilution Factor: 9.93 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 36 Analyst ID.....: 403801 Instrument ID...: 732
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 860 | 100 | ug/kg | 16 |
| 2-Methylnaphthalene | 2000 | 100 | ug/kg | 20 |
| Naphthalene | 17000 | 100 | ug/kg | 15 |
| Acenaphthylene | 1000 | 100 | ug/kg | 21 |
| Acenaphthene | 230 | 100 | ug/kg | 17 |
| Fluorene | 2400 | 100 | ug/kg | 16 |
| Phenanthrene | 4400 | 100 | ug/kg | 12 |
| Anthracene | 1400 | 510 | ug/kg | 18 |
| Fluoranthene | 4800 | 100 | ug/kg | 8.8 |
| Pyrene | 3300 | 100 | ug/kg | 28 |
| Benzo (a) anthracene | 2200 | 100 | ug/kg | 17 |
| Chrysene | 2200 | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 1800 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | 530 | 100 | ug/kg | 22 |
| Benzo (a) pyrene | 1400 | 100 | ug/kg | 29 |
| Indeno (1,2,3-cd) pyrene | 820 | 100 | ug/kg | 5.7 |
| Dibenzo (a,h) anthracene | 340 | 100 | ug/kg | 23 |
| Benzo (ghi) perylene | 930 | 100 | ug/kg | 7.6 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

LW
 8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Semivolatiles

Lot-Sample #....: C9E210170-003 Work Order #....: LDGN21AC Matrix.....: SOLID
 Date Sampled....: 05/20/09 Date Received...: 05/21/09 MS Run #.....: 9142050
 Prep Date.....: 05/22/09 Analysis Date...: 05/23/09
 Prep Batch #....: 9142077 Analysis Time...: 11:08
 Dilution Factor: 15 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 22 Analyst ID.....: 403801 Instrument ID...: 732
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------------------------|--------------------|-------|------------------|
| 1-Methylnaphthalene | 3700 | 130 | ug/kg | 19 |
| 2-Methylnaphthalene | 7400 | 130 | ug/kg | 25 |
| Naphthalene | 29000 40000 E | 430 130 | ug/kg | 62 19 |
| Acenaphthylene | 4100 | 130 | ug/kg | 25 |
| Acenaphthene | 940 | 130 | ug/kg | 21 |
| Fluorene | 11000 | 130 | ug/kg | 19 |
| Phenanthrene | 18000 27000 E | 430 130 | ug/kg | 51 15 |
| Anthracene | 8400 | 630 | ug/kg | 22 |
| Fluoranthene | 18000 31000 E | 430 130 | ug/kg | 36 11 |
| Pyrene | 16000 | 130 | ug/kg | 34 |
| Benzo (a) anthracene | 12000 | 130 | ug/kg | 20 |
| Chrysene | 13000 | 130 | ug/kg | 22 |
| Benzo (b) fluoranthene | 12000 | 130 | ug/kg | 26 |
| Benzo (k) fluoranthene | 5500 | 130 | ug/kg | 27 |
| Benzo (a) pyrene | 9700 | 130 | ug/kg | 36 |
| Indeno (1,2,3-cd) pyrene | 5900 | 130 | ug/kg | 7.0 |
| Dibenzo (a,h) anthracene | 2000 | 130 | ug/kg | 28 |
| Benzo (ghi) perylene | 6200 | 130 | ug/kg | 9.4 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

LW
 8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Semivolatiles

Lot-Sample #....: C9E210170-003
Date Sampled....: 05/20/09
Prep Date.....: 05/22/09
Prep Batch #....: 9142077
Dilution Factor: 50
% Moisture.....: 22

Work Order #....: LDGN22AC
Date Received...: 05/21/09
Analysis Date...: 05/27/09
Analysis Time...: 14:47
Initial Wgt/Vol: 30 g
Analyst ID.....: 403801
Method.....: SW846 8270C

Matrix.....: SOLID
MS Run #.....: 9142050
Final Wgt/Vol...: 0.5 mL
Instrument ID...: 732

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2400 | 430 | ug/kg | 64 |
| 2-Methylnaphthalene | 4400 | 430 | ug/kg | 84 |
| Naphthalene | 29000 | 430 | ug/kg | 62 |
| Acenaphthylene | 2300 | 430 | ug/kg | 85 |
| Acenaphthene | 560 | 430 | ug/kg | 68 |
| Fluorene | 7600 | 430 | ug/kg | 64 |
| Phenanthrene | 18000 | 430 | ug/kg | 51 |
| Anthracene | 4900 | 2100 | ug/kg | 75 |
| Fluoranthene | 18000 | 430 | ug/kg | 36 |
| Pyrene | 11000 | 430 | ug/kg | 110 |
| Benzo(a)anthracene | 7500 | 430 | ug/kg | 68 |
| Chrysene | 7000 | 430 | ug/kg | 74 |
| Benzo(b)fluoranthene | 5800 | 430 | ug/kg | 86 |
| Benzo(k)fluoranthene | 4000 | 430 | ug/kg | 89 |
| Benzo(a)pyrene | 5500 | 430 | ug/kg | 120 |
| Indeno(1,2,3-cd)pyrene | 3800 | 430 | ug/kg | 23 |
| Dibenzo(a,h)anthracene | 1200 | 430 | ug/kg | 94 |
| Benzo(ghi)perylene | 4300 | 430 | ug/kg | 31 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E210170

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-32 | C9E210170-001 | Soil |
| 2 | BP-SO-DUP1 | C9E210170-002 | Soil |
| 3 | BP-SO-B01-8 | C9E210170-003 | Soil |
| 3DL | BP-SO-B01-8DL | C9E210170-003DL | Soil |
| 4 | TRIP BLANK | C9E210170-004 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 11/08/09 | Acrolein | 0.039 RRF | L/R | All samples |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|-------------------------------|
| 05/26/09 | Acrolein | 0.038 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank -The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B03-32 ug/kg | BP-SO-DUP1 ug/kg | RPD | Qualifier |
|----------|-----------------------|---------------------|-----|-----------|
| Benzene | 65000 | 76000 | 16% | None |
| Toluene | 9800 | 11000 | 12% | None |

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - EDS sample ID # 3 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed this sample. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-001 | Work Order #....: LDGNP1AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 14:36 | |
| Dilution Factor: 9.19 | Initial Wgt/Vol: 5.44 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 30 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-----------------|-----------|-------|-------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 66000 | ug/kg | 10000 |
| Acrylonitrile | ND | 66000 | ug/kg | 5300 |
| Benzene | 65000 | 3300 | ug/kg | 650 |
| Bromodichloromethane | ND | 3300 | ug/kg | 610 |
| Bromoform | ND | 3300 | ug/kg | 700 |
| Bromomethane | ND | 3300 | ug/kg | 1000 |
| 2-Butanone (MEK) | ND | 3300 | ug/kg | 710 |
| Carbon tetrachloride | ND | 3300 | ug/kg | 710 |
| Chloroethane | ND | 3300 | ug/kg | 490 |
| 2-Chloroethyl vinyl ether | ND | 6600 | ug/kg | 730 |
| Chloroform | ND | 3300 | ug/kg | 660 |
| Chloromethane | ND | 3300 | ug/kg | 610 |
| Dibromochloromethane | ND | 3300 | ug/kg | 430 |
| 1,2-Dichlorobenzene | ND | 3300 | ug/kg | 450 |
| 1,3-Dichlorobenzene | ND | 3300 | ug/kg | 330 |
| 1,4-Dichlorobenzene | ND | 3300 | ug/kg | 350 |
| trans-1,2-Dichloroethene | ND | 3300 | ug/kg | 500 |
| Dichlorodifluoromethane | ND | 3300 | ug/kg | 420 |
| 1,1-Dichloroethane | ND | 3300 | ug/kg | 670 |
| 1,2-Dichloroethane | ND | 3300 | ug/kg | 630 |
| 1,1-Dichloroethene | ND | 3300 | ug/kg | 700 |
| 1,2-Dichloropropane | ND | 3300 | ug/kg | 840 |
| cis-1,3-Dichloropropene | ND | 3300 | ug/kg | 480 |
| trans-1,3-Dichloropropene | ND | 3300 | ug/kg | 380 |
| Ethylbenzene | ND | 3300 | ug/kg | 410 |
| Methylene chloride | ND | 3300 | ug/kg | 720 |
| 1,1,2,2-Tetrachloroethane | ND | 3300 | ug/kg | 610 |
| Tetrachloroethene | ND | 3300 | ug/kg | 540 |
| Toluene | 9800 | 3300 | ug/kg | 560 |
| 1,1,1-Trichloroethane | ND | 3300 | ug/kg | 680 |
| 1,1,2-Trichloroethane | ND | 3300 | ug/kg | 770 |
| Trichloroethene | ND | 3300 | ug/kg | 530 |
| Trichlorofluoromethane | ND | 3300 | ug/kg | 740 |
| Vinyl chloride | ND | 3300 | ug/kg | 850 |

(Continued on next page)

8/31/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-32

GC/MS Volatiles

Lot-Sample #...: C9E210170-001 Work Order #...: LDGNP1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

NW
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Volatiles

Lot-Sample #....: C9E210170-002 Work Order #....: LDGN11AU Matrix.....: SOLID
Date Sampled...: 05/20/09 Date Received...: 05/21/09 MS Run #.....:
Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
Prep Batch #....: 9146557 Analysis Time...: 14:59
Dilution Factor: 9.34 Initial Wgt/Vol: 5.35 g Final Wgt/Vol...: 5 mL
% Moisture.....: 36 Analyst ID.....: 034635 Instrument ID...: HP4
Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-------------|--------------------|-------|-------|
| Acrolein | ND <i>R</i> | 73000 | ug/kg | 12000 |
| Acrylonitrile | ND | 73000 | ug/kg | 5900 |
| Benzene | 76000 | 3700 | ug/kg | 720 |
| Bromodichloromethane | ND | 3700 | ug/kg | 680 |
| Bromoform | ND | 3700 | ug/kg | 780 |
| Bromomethane | ND | 3700 | ug/kg | 1200 |
| 2-Butanone (MEK) | ND | 3700 | ug/kg | 790 |
| Carbon tetrachloride | ND | 3700 | ug/kg | 790 |
| Chloroethane | ND | 3700 | ug/kg | 550 |
| 2-Chloroethyl vinyl ether | ND | 7300 | ug/kg | 810 |
| Chloroform | ND | 3700 | ug/kg | 740 |
| Chloromethane | ND | 3700 | ug/kg | 680 |
| Dibromochloromethane | ND | 3700 | ug/kg | 470 |
| 1,2-Dichlorobenzene | ND | 3700 | ug/kg | 500 |
| 1,3-Dichlorobenzene | ND | 3700 | ug/kg | 370 |
| 1,4-Dichlorobenzene | ND | 3700 | ug/kg | 380 |
| trans-1,2-Dichloroethene | ND | 3700 | ug/kg | 550 |
| Dichlorodifluoromethane | ND | 3700 | ug/kg | 460 |
| 1,1-Dichloroethane | ND | 3700 | ug/kg | 740 |
| 1,2-Dichloroethane | ND | 3700 | ug/kg | 700 |
| 1,1-Dichloroethene | ND | 3700 | ug/kg | 780 |
| 1,2-Dichloropropane | ND | 3700 | ug/kg | 930 |
| cis-1,3-Dichloropropene | ND | 3700 | ug/kg | 530 |
| trans-1,3-Dichloropropene | ND | 3700 | ug/kg | 430 |
| Ethylbenzene | ND | 3700 | ug/kg | 450 |
| Methylene chloride | ND | 3700 | ug/kg | 800 |
| 1,1,2,2-Tetrachloroethane | ND | 3700 | ug/kg | 680 |
| Tetrachloroethene | ND | 3700 | ug/kg | 600 |
| Toluene | 11000 | 3700 | ug/kg | 620 |
| 1,1,1-Trichloroethane | ND | 3700 | ug/kg | 750 |
| 1,1,2-Trichloroethane | ND | 3700 | ug/kg | 850 |
| Trichloroethene | ND | 3700 | ug/kg | 590 |
| Trichlorofluoromethane | ND | 3700 | ug/kg | 820 |
| Vinyl chloride | ND | 3700 | ug/kg | 940 |

(Continued on next page)

hw
8/30/09

Maryland Environmental Service

Client Sample ID: BP-SO-DUP1

GC/MS Volatiles

Lot-Sample #....: C9E210170-002 Work Order #....: LDGN11AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

lw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E210170-003 | Work Order #....: LDGN21AU | Matrix.....: SOLID |
| Date Sampled....: 05/20/09 | Date Received...: 05/21/09 | MS Run #.....: |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146557 | Analysis Time...: 15:22 | |
| Dilution Factor: 96.71 | Initial Wgt/Vol: 5.17 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 22 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------------------------|-------------------------|-------|-----------------------|
| Acrolein | NR | 620000 | ug/kg | 98000 |
| Acrylonitrile | ND | 620000 | ug/kg | 50000 |
| Benzene | 5700000 5000000-H | 31000 310000 | ug/kg | 6100 61000 |
| Bromodichloromethane | ND | 31000 | ug/kg | 5800 |
| Bromoform | ND | 31000 | ug/kg | 6600 |
| Bromomethane | ND | 31000 | ug/kg | 9700 |
| 2-Butanone (MEK) | ND | 31000 | ug/kg | 6700 |
| Carbon tetrachloride | ND | 31000 | ug/kg | 6700 |
| Chloroethane | ND | 31000 | ug/kg | 4600 |
| 2-Chloroethyl vinyl ether | ND | 62000 | ug/kg | 6800 |
| Chloroform | ND | 31000 | ug/kg | 6200 |
| Chloromethane | ND | 31000 | ug/kg | 5700 |
| Dibromochloromethane | ND | 31000 | ug/kg | 4000 |
| 1,2-Dichlorobenzene | ND | 31000 | ug/kg | 4200 |
| 1,3-Dichlorobenzene | ND | 31000 | ug/kg | 3100 |
| 1,4-Dichlorobenzene | ND | 31000 | ug/kg | 3200 |
| trans-1,2-Dichloroethene | ND | 31000 | ug/kg | 4600 |
| Dichlorodifluoromethane | ND | 31000 | ug/kg | 3900 |
| 1,1-Dichloroethane | ND | 31000 | ug/kg | 6300 |
| 1,2-Dichloroethane | ND | 31000 | ug/kg | 5900 |
| 1,1-Dichloroethene | ND | 31000 | ug/kg | 6600 |
| 1,2-Dichloropropane | ND | 31000 | ug/kg | 7900 |
| cis-1,3-Dichloropropene | ND | 31000 | ug/kg | 4500 |
| trans-1,3-Dichloropropene | ND | 31000 | ug/kg | 3600 |
| Ethylbenzene | 140000 | 31000 | ug/kg | 3800 |
| Methylene chloride | ND | 31000 | ug/kg | 6700 |
| 1,1,2,2-Tetrachloroethane | ND | 31000 | ug/kg | 5800 |
| Tetrachloroethene | ND | 31000 | ug/kg | 5100 |
| Toluene | 140000 | 31000 | ug/kg | 5200 |
| 1,1,1-Trichloroethane | ND | 31000 | ug/kg | 6400 |
| 1,1,2-Trichloroethane | ND | 31000 | ug/kg | 7200 |
| Trichloroethene | ND | 31000 | ug/kg | 4900 |
| Trichlorofluoromethane | ND | 31000 | ug/kg | 6900 |
| Vinyl chloride | ND | 31000 | ug/kg | 8000 |

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NW
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

Lot-Sample #....: C9E210170-003 Work Order #....: LDGN21AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

lw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

Use original

Lot-Sample #...: C9E210170-003
Date Sampled...: 05/20/09
Prep Date.....: 05/26/09
Prep Batch #...: 9146557
Dilution Factor: 967.1
% Moisture.....: 22

Work Order #.... LDGN22AU
Date Received... 05/21/09
Analysis Date... 05/26/09
Analysis Time... 17:16
Initial Wgt/Vol: 5.17 g
Analyst ID..... 034635
Method..... SW846 82

Matrix.....: SOLID
MS Run #.....:

~~Final Wgt/Vol...: 5 mL~~
~~Instrument ID...: HP4~~

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------|-----------------|-------|--------|
| Acrolein | ND | 6200000 | ug/kg | 980000 |
| Acrylonitrile | ND | 6200000 | ug/kg | 500000 |
| Benzene | 5700000 | 3100000 | ug/kg | 61000 |
| Bromodichloromethane | ND | 310000 | ug/kg | 58000 |
| Bromoform | ND | 310000 | ug/kg | 66000 |
| Bromomethane | ND | 310000 | ug/kg | 97000 |
| 2-Butanone (MEK) | ND | 310000 | ug/kg | 67000 |
| Carbon tetrachloride | ND | 310000 | ug/kg | 67000 |
| Chloroethane | ND | 310000 | ug/kg | 46000 |
| 2-Chloroethyl vinyl ether | ND | 620000 | ug/kg | 68000 |
| Chloroform | ND | 310000 | ug/kg | 62000 |
| Chloromethane | ND | 310000 | ug/kg | 57000 |
| Dibromochloromethane | ND | 310000 | ug/kg | 40000 |
| 1,2-Dichlorobenzene | ND | 310000 | ug/kg | 42000 |
| 1,3-Dichlorobenzene | ND | 310000 | ug/kg | 31000 |
| 1,4-Dichlorobenzene | ND | 310000 | ug/kg | 32000 |
| trans-1,2-Dichloroethene | ND | 310000 | ug/kg | 46000 |
| Dichlorodifluoromethane | ND | 310000 | ug/kg | 39000 |
| 1,1-Dichloroethane | ND | 310000 | ug/kg | 63000 |
| 1,2-Dichloroethane | ND | 310000 | ug/kg | 59000 |
| 1,1-Dichloroethene | ND | 310000 | ug/kg | 66000 |
| 1,2-Dichloropropane | ND | 310000 | ug/kg | 79000 |
| cis-1,3-Dichloropropene | ND | 310000 | ug/kg | 45000 |
| trans-1,3-Dichloropropene | ND | 310000 | ug/kg | 36000 |
| Ethylbenzene | 140000 J | 310000 | ug/kg | 38000 |
| Methylene chloride | ND | 310000 | ug/kg | 67000 |
| 1,1,2,2-Tetrachloroethane | ND | 310000 | ug/kg | 58000 |
| Tetrachloroethene | ND | 310000 | ug/kg | 51000 |
| Toluene | 150000 J | 310000 | ug/kg | 52000 |
| 1,1,1-Trichloroethane | ND | 310000 | ug/kg | 64000 |
| 1,1,2-Trichloroethane | ND | 310000 | ug/kg | 72000 |
| Trichloroethene | ND | 310000 | ug/kg | 49000 |
| Trichlorofluoromethane | ND | 310000 | ug/kg | 69000 |
| Vinyl chloride | ND | 310000 | ug/kg | 80000 |

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hw
813109

3DL

Maryland Environmental Service

Client Sample ID: BP-SO-B01-8

GC/MS Volatiles

Use original

Lot-Sample #....: C9E210170-003 Work Order #....: LDGN22AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 98 | (63 - 120) |
| Dibromofluoromethane | 101 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

[A large diagonal line is drawn across the page, likely indicating a revision or cancellation.]

*NW
8/31/9*

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E210170-004 Work Order #....: LDGN31AA Matrix.....: WATER
 Date Sampled....: 05/20/09 Date Received...: 05/21/09 MS Run #.....: 9147303
 Prep Date.....: 05/27/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9147485 Analysis Time...: 13:24
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-----------------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

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NW
8/3/09

4

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E210170-004 Work Order #....: LDGN31AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 94 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 97 | (75 - 120) |
| Dibromofluoromethane | 99 | (80 - 120) |

NW
8/3/09

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9E220334

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 3, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| US Dept of Agriculture | NA | NAVY | X |
| Arkansas | (#P330-07-00101) | Foreign Soil Import Permit | X |
| | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification

WW Non-potable Water and/or Wastewater certification

X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeis\My Documents\NELAC NARRATIVE Pittsburg.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E220334

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on May 22, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. Several samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

Sample BP-SO-B01-20 had the internal standard area counts outside the daily control limits for perylene-d12 due to matrix interference.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E220334

Metals:

Several of the samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

Several samples were analyzed at a dilution for mercury.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, copper, nickel and selenium. The matrix spike recovered outside the control limit for arsenic.

The RPD recovered outside the control limit for arsenic and copper.

For the matrix spike and matrix spike duplicate, chromium, lead, zinc and mercury recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

Sample BP-SO-B01-20 was analyzed at a dilution for total cyanide.

The matrix spike and matrix spike duplicate recovered outside of the control limits for total cyanide. The RPD between the matrix spike and matrix spike duplicate for sample was outside the control limit.

METHODS SUMMARY

C9E220334

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9E220334

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LDLQQ | 001 | BP-SO-B01-14 | 05/21/09 | 09:00 |
| LDLTR | 002 | BP-SO-B01-20 | 05/21/09 | 09:30 |
| LDLT3 | 003 | BP-SO-B04-10 | 05/21/09 | 12:30 |
| LDLT6 | 004 | BP-SO-B04-16 | 05/21/09 | 15:10 |
| LDLT9 | 005 | SRM | 05/21/09 | 15:10 |
| LDLVE | 006 | TRIP BLANK | 05/21/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cooler Receipt Form

TestAmerica Pittsburgh

Client: MES Project: Sparrows Point Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 5/22/09

Coolers Opened and Unpacked on: 5/21/09 By: Tri Uu

(Signature)

TestAmerica Pittsburgh Lot Number: C9E220334

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>Front</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Bags</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____
Sulfuric Acid _____

Hydrochloric Acid _____
Sodium Hydroxide _____

C9E220334

10

(1 - 87)

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FedEx US Airbill
Express

8694 4003 0377

0200

Form 10 No.

FedEx Retrieval Copy

1 From Date 5/21/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name Steve Tankay Phone 717 487.6632
Company EA Engineering
Address 15 Loveton Circle Dept./Floor/Suite/Room
City Sparks State MD ZIP 21152

2 Your Internal Billing Reference 1453406.0001.0004B 2126

3 To Recipient's Name Sample Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive, RIDE Port Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address Pittsburgh State PA ZIP 15238
To request a package be held at a specific FedEx location, print FedEx address here.



8694 4003 0377

4a Express Package Service
1 ☐ FedEx Priority Overnight Next business morning. ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☒ FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available.
6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations. * Saturday Delivery NOT available.
3 ☐ FedEx 2Day Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Envelope rate not available. Minimum charge: One-pound rate.
20 ☐ FedEx Express Saver Third business day. * Saturday Delivery NOT available.
* To most locations.

4b Express Freight Service
7 ☐ FedEx 1Day Freight* Next business day. ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ FedEx 2Day Freight Second business day. ** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight Third business day. ** Saturday Delivery NOT available.
** To most locations.

5 Packaging
6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other
* Declared value limit \$500.

6 Special Handling
3 ☐ SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 ☐ HOLD Weekday at FedEx Location Not available for FedEx First Overnight.
31 ☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Include FedEx address in Section 3.
Does this shipment contain dangerous goods? One box must be checked.
☒ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required.
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
6 ☐ Dry Ice Dry Ice, 5, UN 1845 x kg ☐ Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 45.1 lbs

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
No Signature Required Package may be left without obtaining a signature for delivery. 10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies. 34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
520

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-001 | Work Order #....: LDLQQ1C1 | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 09:10 | |
| Dilution Factor: 912.4 | Initial Wgt/Vol: 5.48 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 25 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|----------------|---------------|--------------|--------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 6100000 | ug/kg | 970000 |
| Acrylonitrile | ND | 6100000 | ug/kg | 500000 |
| Benzene | 4300000 | 310000 | ug/kg | 61000 |
| Bromodichloromethane | ND | 310000 | ug/kg | 57000 |
| Bromoform | ND | 310000 | ug/kg | 65000 |
| Bromomethane | ND | 310000 | ug/kg | 96000 |
| 2-Butanone (MEK) | ND | 310000 | ug/kg | 66000 |
| Carbon tetrachloride | ND | 310000 | ug/kg | 66000 |
| Chloroethane | ND | 310000 | ug/kg | 46000 |
| 2-Chloroethyl vinyl ether | ND | 610000 | ug/kg | 68000 |
| Chloroform | ND | 310000 | ug/kg | 62000 |
| Chloromethane | ND | 310000 | ug/kg | 57000 |
| Dibromochloromethane | ND | 310000 | ug/kg | 40000 |
| 1,2-Dichlorobenzene | ND | 310000 | ug/kg | 42000 |
| 1,3-Dichlorobenzene | ND | 310000 | ug/kg | 31000 |
| 1,4-Dichlorobenzene | ND | 310000 | ug/kg | 32000 |
| trans-1,2-Dichloroethene | ND | 310000 | ug/kg | 46000 |
| Dichlorodifluoromethane | ND | 310000 | ug/kg | 39000 |
| 1,1-Dichloroethane | ND | 310000 | ug/kg | 62000 |
| 1,2-Dichloroethane | ND | 310000 | ug/kg | 59000 |
| 1,1-Dichloroethene | ND | 310000 | ug/kg | 65000 |
| 1,2-Dichloropropane | ND | 310000 | ug/kg | 78000 |
| cis-1,3-Dichloropropene | ND | 310000 | ug/kg | 44000 |
| trans-1,3-Dichloropropene | ND | 310000 | ug/kg | 36000 |
| Ethylbenzene | 81000 J | 310000 | ug/kg | 38000 |
| Methylene chloride | ND | 310000 | ug/kg | 67000 |
| 1,1,2,2-Tetrachloroethane | ND | 310000 | ug/kg | 57000 |
| Tetrachloroethene | ND | 310000 | ug/kg | 50000 |
| Toluene | 820000 | 310000 | ug/kg | 52000 |
| 1,1,1-Trichloroethane | ND | 310000 | ug/kg | 63000 |
| 1,1,2-Trichloroethane | ND | 310000 | ug/kg | 71000 |
| Trichloroethene | ND | 310000 | ug/kg | 49000 |
| Trichlorofluoromethane | ND | 310000 | ug/kg | 68000 |
| Vinyl chloride | ND | 310000 | ug/kg | 79000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Volatiles

Lot-Sample #...: C9E220334-001 Work Order #...: LDLQQ1C1 Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 87 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-002 | Work Order #....: LDLTR1AM | Matrix.....: SOLID |
| Date Sampled...: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 13:07 | |
| Dilution Factor: 18.83 | Initial Wgt/Vol: 5.31 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 37 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|-------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 150000 | ug/kg | 24000 |
| Acrylonitrile | ND | 150000 | ug/kg | 12000 |
| Benzene | 140000 | 7400 | ug/kg | 1500 |
| Bromodichloromethane | ND | 7400 | ug/kg | 1400 |
| Bromoform | ND | 7400 | ug/kg | 1600 |
| Bromomethane | ND | 7400 | ug/kg | 2300 |
| 2-Butanone (MEK) | ND | 7400 | ug/kg | 1600 |
| Carbon tetrachloride | ND | 7400 | ug/kg | 1600 |
| Chloroethane | ND | 7400 | ug/kg | 1100 |
| 2-Chloroethyl vinyl ether | ND | 15000 | ug/kg | 1600 |
| Chloroform | ND | 7400 | ug/kg | 1500 |
| Chloromethane | ND | 7400 | ug/kg | 1400 |
| Dibromochloromethane | ND | 7400 | ug/kg | 960 |
| 1,2-Dichlorobenzene | ND | 7400 | ug/kg | 1000 |
| 1,3-Dichlorobenzene | ND | 7400 | ug/kg | 750 |
| 1,4-Dichlorobenzene | ND | 7400 | ug/kg | 780 |
| trans-1,2-Dichloroethene | ND | 7400 | ug/kg | 1100 |
| Dichlorodifluoromethane | ND | 7400 | ug/kg | 940 |
| 1,1-Dichloroethane | ND | 7400 | ug/kg | 1500 |
| 1,2-Dichloroethane | ND | 7400 | ug/kg | 1400 |
| 1,1-Dichloroethene | ND | 7400 | ug/kg | 1600 |
| 1,2-Dichloropropane | ND | 7400 | ug/kg | 1900 |
| cis-1,3-Dichloropropene | ND | 7400 | ug/kg | 1100 |
| trans-1,3-Dichloropropene | ND | 7400 | ug/kg | 860 |
| Ethylbenzene | 920 J | 7400 | ug/kg | 920 |
| Methylene chloride | ND | 7400 | ug/kg | 1600 |
| 1,1,2,2-Tetrachloroethane | ND | 7400 | ug/kg | 1400 |
| Tetrachloroethene | ND | 7400 | ug/kg | 1200 |
| Toluene | 20000 | 7400 | ug/kg | 1300 |
| 1,1,1-Trichloroethane | ND | 7400 | ug/kg | 1500 |
| 1,1,2-Trichloroethane | ND | 7400 | ug/kg | 1700 |
| Trichloroethene | ND | 7400 | ug/kg | 1200 |
| Trichlorofluoromethane | ND | 7400 | ug/kg | 1700 |
| Vinyl chloride | ND | 7400 | ug/kg | 1900 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Volatiles

Lot-Sample #...: C9E220334-002 Work Order #...: LDLTR1AM Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 86 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 87 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-003 | Work Order #....: LDLT31AM | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 12:44 | |
| Dilution Factor: 18.66 | Initial Wgt/Vol: 5.36 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 18 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|-------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 110000 | ug/kg | 18000 |
| Acrylonitrile | ND | 110000 | ug/kg | 9200 |
| Benzene | 79000 | 5700 | ug/kg | 1100 |
| Bromodichloromethane | ND | 5700 | ug/kg | 1100 |
| Bromoform | ND | 5700 | ug/kg | 1200 |
| Bromomethane | ND | 5700 | ug/kg | 1800 |
| 2-Butanone (MEK) | ND | 5700 | ug/kg | 1200 |
| Carbon tetrachloride | ND | 5700 | ug/kg | 1200 |
| Chloroethane | ND | 5700 | ug/kg | 850 |
| 2-Chloroethyl vinyl ether | ND | 11000 | ug/kg | 1300 |
| Chloroform | ND | 5700 | ug/kg | 1100 |
| Chloromethane | ND | 5700 | ug/kg | 1100 |
| Dibromochloromethane | ND | 5700 | ug/kg | 740 |
| 1,2-Dichlorobenzene | ND | 5700 | ug/kg | 780 |
| 1,3-Dichlorobenzene | ND | 5700 | ug/kg | 580 |
| 1,4-Dichlorobenzene | ND | 5700 | ug/kg | 600 |
| trans-1,2-Dichloroethene | ND | 5700 | ug/kg | 860 |
| Dichlorodifluoromethane | ND | 5700 | ug/kg | 720 |
| 1,1-Dichloroethane | ND | 5700 | ug/kg | 1200 |
| 1,2-Dichloroethane | ND | 5700 | ug/kg | 1100 |
| 1,1-Dichloroethene | ND | 5700 | ug/kg | 1200 |
| 1,2-Dichloropropane | ND | 5700 | ug/kg | 1500 |
| cis-1,3-Dichloropropene | ND | 5700 | ug/kg | 830 |
| trans-1,3-Dichloropropene | ND | 5700 | ug/kg | 660 |
| Ethylbenzene | ND | 5700 | ug/kg | 710 |
| Methylene chloride | ND | 5700 | ug/kg | 1200 |
| 1,1,2,2-Tetrachloroethane | ND | 5700 | ug/kg | 1100 |
| Tetrachloroethene | ND | 5700 | ug/kg | 940 |
| Toluene | 3900 J | 5700 | ug/kg | 960 |
| 1,1,1-Trichloroethane | ND | 5700 | ug/kg | 1200 |
| 1,1,2-Trichloroethane | ND | 5700 | ug/kg | 1300 |
| Trichloroethene | ND | 5700 | ug/kg | 910 |
| Trichlorofluoromethane | ND | 5700 | ug/kg | 1300 |
| Vinyl chloride | ND | 5700 | ug/kg | 1500 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Volatiles

Lot-Sample #...: C9E220334-003 Work Order #...: LDLT31AM Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 90 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 97 | (63 - 120) |
| Dibromofluoromethane | 90 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-004 | Work Order #....: LDLT61AM | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 13:31 | |
| Dilution Factor: 18.38 | Initial Wgt/Vol: 5.44 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 12 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|-------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100000 | ug/kg | 17000 |
| Acrylonitrile | ND | 100000 | ug/kg | 8500 |
| Benzene | 91000 | 5200 | ug/kg | 1000 |
| Bromodichloromethane | ND | 5200 | ug/kg | 980 |
| Bromoform | ND | 5200 | ug/kg | 1100 |
| Bromomethane | ND | 5200 | ug/kg | 1700 |
| 2-Butanone (MEK) | ND | 5200 | ug/kg | 1100 |
| Carbon tetrachloride | ND | 5200 | ug/kg | 1100 |
| Chloroethane | ND | 5200 | ug/kg | 780 |
| 2-Chloroethyl vinyl ether | ND | 10000 | ug/kg | 1200 |
| Chloroform | ND | 5200 | ug/kg | 1100 |
| Chloromethane | ND | 5200 | ug/kg | 970 |
| Dibromochloromethane | ND | 5200 | ug/kg | 680 |
| 1,2-Dichlorobenzene | ND | 5200 | ug/kg | 720 |
| 1,3-Dichlorobenzene | ND | 5200 | ug/kg | 530 |
| 1,4-Dichlorobenzene | ND | 5200 | ug/kg | 550 |
| trans-1,2-Dichloroethene | ND | 5200 | ug/kg | 790 |
| Dichlorodifluoromethane | ND | 5200 | ug/kg | 670 |
| 1,1-Dichloroethane | ND | 5200 | ug/kg | 1100 |
| 1,2-Dichloroethane | ND | 5200 | ug/kg | 1000 |
| 1,1-Dichloroethene | ND | 5200 | ug/kg | 1100 |
| 1,2-Dichloropropane | ND | 5200 | ug/kg | 1300 |
| cis-1,3-Dichloropropene | ND | 5200 | ug/kg | 760 |
| trans-1,3-Dichloropropene | ND | 5200 | ug/kg | 610 |
| Ethylbenzene | 1500 J | 5200 | ug/kg | 650 |
| Methylene chloride | ND | 5200 | ug/kg | 1100 |
| 1,1,2,2-Tetrachloroethane | ND | 5200 | ug/kg | 980 |
| Tetrachloroethene | ND | 5200 | ug/kg | 870 |
| Toluene | 32000 | 5200 | ug/kg | 890 |
| 1,1,1-Trichloroethane | ND | 5200 | ug/kg | 1100 |
| 1,1,2-Trichloroethane | ND | 5200 | ug/kg | 1200 |
| Trichloroethene | ND | 5200 | ug/kg | 840 |
| Trichlorofluoromethane | ND | 5200 | ug/kg | 1200 |
| Vinyl chloride | ND | 5200 | ug/kg | 1400 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Volatiles

Lot-Sample #...: C9E220334-004 Work Order #...: LDLT61AM Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 101 | (72 - 127) |
| 4-Bromofluorobenzene | 95 | (63 - 120) |
| Dibromofluoromethane | 91 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-006 | Work Order #....: LDLVE1AA | Matrix.....: WATER |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9148346 |
| Prep Date.....: 05/28/09 | Analysis Date...: 05/28/09 | |
| Prep Batch #....: 9148566 | Analysis Time...: 15:28 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9E220334-006 Work Order #...: LDLVE1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 106 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 104 | (75 - 120) |
| Dibromofluoromethane | 103 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E220334

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B01-14 | 87 | 99 | 93 | 87 | 00 |
| 02 | BP-SO-B01-20 | 86 | 99 | 93 | 87 | 00 |
| 03 | BP-SO-B04-10 | 90 | 102 | 97 | 90 | 00 |
| 04 | BP-SO-B04-16 | 88 | 101 | 95 | 91 | 00 |
| 05 | METHOD BLK. LDTGG1AA | 89 | 102 | 95 | 93 | 00 |
| 06 | LCS LDTGG1AC | 92 | 103 | 100 | 95 | 00 |
| 07 | BP-SO-B01-14 D | 86 | 101 | 95 | 92 | 00 |
| 08 | LCSD LDTGG1AD | 92 | 103 | 100 | 94 | 00 |
| 09 | BP-SO-B01-14 S | 88 | 101 | 98 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E220334

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 98 | 95 | 98 | 97 | 00 |
| 02 | TRIP BLANK | 106 | 99 | 104 | 103 | 00 |
| 03 | METHOD BLK. LDXQ41AA | 106 | 95 | 97 | 99 | 00 |
| 04 | LCS LDXQ41AC | 99 | 96 | 92 | 91 | 00 |
| 05 | LAB MS/MSD D | 104 | 101 | 96 | 95 | 00 |
| 06 | LAB MS/MSD S | 107 | 105 | 101 | 99 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E270000

WO #: LDTGG1AC

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1960 | 98 | 59 - 129 | |
| Trichloroethene | 2000 | 1980 | 99 | 76 - 119 | |
| Benzene | 2000 | 2020 | 101 | 77 - 120 | |
| Toluene | 2000 | 2130 | 106 | 78 - 124 | |
| Chlorobenzene | 2000 | 2130 | 107 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E270000

WO #: LDTGG1AD

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1880 | 94 | 59 - 129 | |
| Trichloroethene | 2000 | 1900 | 95 | 76 - 119 | |
| Benzene | 2000 | 1900 | 95 | 77 - 120 | |
| Toluene | 2000 | 2040 | 102 | 78 - 124 | |
| Chlorobenzene | 2000 | 2040 | 102 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E280000

WO #: LDXQ41AC

BATCH: 9148566

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 32.4 | 81 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.9 | 95 | 80 - 120 | |
| Toluene | 40.0 | 40.1 | 100 | 80 - 124 | |
| Chlorobenzene | 40.0 | 39.3 | 98 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-14

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1C5

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2450000 | ND | 2400000 | 98 | 59 - 129 | |
| Trichloroethene | 2450000 | ND | 2420000 | 99 | 76 - 119 | |
| Benzene | 2450000 | 4300000 | 6760000 | 100 | 77 - 120 | |
| Toluene | 2450000 | 820000 | 3410000 | 105 | 78 - 124 | |
| Chlorobenzene | 2450000 | ND | 2600000 | 106 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limitsCOMMENTS:

FORM III.

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-14

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1C6

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2450000 | 2260000 | 93 | 5.7 | 25 | 59 - 129 | |
| Trichloroethene | 2450000 | 2360000 | 96 | 2.5 | 21 | 76 - 119 | |
| Benzene | 2450000 | 6720000 | 98 | 0.67 | 20 | 77 - 120 | |
| Toluene | 2450000 | 3400000 | 105 | 0.27 | 21 | 78 - 124 | |
| Chlorobenzene | 2450000 | 2540000 | 104 | 2.5 | 20 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160205

WO #: LC76H1AK

BATCH: 9148566

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 34.5 | 86 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 40.0 | 100 | 80 - 120 | |
| Benzene | 40.0 | ND | 39.7 | 99 | 80 - 120 | |
| Toluene | 40.0 | ND | 41.8 | 104 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 41.0 | 103 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160205

WO #: LC76H1AL

BATCH: 9148566

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 33.2 | 83 | 4.0 | 20 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 4.3 | 20 | 80 - 120 | |
| Benzene | 40.0 | 38.3 | 96 | 3.5 | 20 | 80 - 120 | |
| Toluene | 40.0 | 40.3 | 101 | 3.6 | 20 | 80 - 124 | |
| Chlorobenzene | 40.0 | 39.4 | 98 | 4.1 | 20 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDTGG1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4052701.D

Lot Number: C9E220334

Date Analyzed: 05/27/09

Time Analyzed: 08:20

Matrix: SOLID

Date Extracted: 05/27/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B01-14 | LDLQQ1C1 | 4052703.D | 05/27/09 | 09:10 |
| 02 | BP-SO-B01-14 | LDLQQ1C5 S | 4052709.D | 05/27/09 | 11:30 |
| 03 | BP-SO-B01-14 | LDLQQ1C6 D | 4052710.D | 05/27/09 | 11:53 |
| 04 | BP-SO-B01-20 | LDLTR1AM | 4052713.D | 05/27/09 | 13:07 |
| 05 | BP-SO-B04-10 | LDLT31AM | 4052712.D | 05/27/09 | 12:44 |
| 06 | BP-SO-B04-16 | LDLT61AM | 4052714.D | 05/27/09 | 13:31 |
| 07 | CHECK SAMPLE | LDTGG1AC C | 4052704.D | 05/27/09 | 09:33 |
| 08 | DUPLICATE CHECK | LDTGG1AD L | 4052705.D | 05/27/09 | 09:55 |
| 09 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E220334
MB Lot-Sample #: C9E270000-429

Work Order #...: LDTGG1AA

Matrix.....: SOLID

Analysis Date...: 05/27/09
Dilution Factor: 1

Prep Date.....: 05/27/09
Prep Batch #...: 9147429
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 08:20
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 95 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E220334

Work Order #...: LDTGG1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 93 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDXQ41AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7052802.D

Lot Number: C9E220334

Date Analyzed: 05/28/09

Time Analyzed: 10:11

Matrix: WATER

Date Extracted: 05/28/09

GC Column: ID: .00

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LC76H1AA | 7052804.D | 05/28/09 | 11:02 |
| 02 | LAB MS/MSD | LC76H1AK S | 7052808.D | 05/28/09 | 12:40 |
| 03 | LAB MS/MSD | LC76H1AL D | 7052809.D | 05/28/09 | 13:12 |
| 04 | TRIP BLANK | LDLVE1AA | 7052814.D | 05/28/09 | 15:28 |
| 05 | CHECK SAMPLE | LDXQ41AC C | 7052810.D | 05/28/09 | 13:36 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E220334
MB Lot-Sample #: C9E280000-566

Work Order #...: LDXQ41AA

Matrix.....: WATER

Analysis Date...: 05/28/09
Dilution Factor: 1

Prep Date.....: 05/28/09
Prep Batch #...: 9148566
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 10:11
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|---------------------|--------------------|-------|-------------|
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | | |
| 1,2-Dichloroethane-d4 | 106 | (62 - 123) | | |
| Toluene-d8 | 95 | (80 - 120) | | |
| 4-Bromofluorobenzene | 97 | (75 - 120) | | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E220334

Work Order #...: LDXQ41AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 99 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E220334
 Lab File ID (Standard): CC40527 Date Analyzed: 05/27/09
 Instrument ID: HP4 Time Analyzed: 0709
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 227750 | 10.76 | 389477 | 13.09 | 988122 | 7.68 |
| UPPER LIMIT | 455500 | 10.96 | 778954 | 13.29 | 1976244 | 7.88 |
| LOWER LIMIT | 113875 | 10.56 | 194739 | 12.89 | 494061 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 261767 | 10.76 | 458520 | 13.09 | 1215460 | 7.68 |
| 02 BP-S0-B01-14 | 204737 | 10.76 | 377171 | 13.09 | 977555 | 7.68 |
| 03 INTRA-LAB CH | 212087 | 10.76 | 384945 | 13.09 | 953556 | 7.68 |
| 04 INTRA-LAB CH | 211683 | 10.76 | 393561 | 13.09 | 975185 | 7.68 |
| 05 BP-S0-B01-14 | 233066 | 10.76 | 419790 | 13.09 | 1039859 | 7.68 |
| 06 BP-S0-B01-14 | 227176 | 10.76 | 401490 | 13.09 | 1042780 | 7.68 |
| 07 BP-S0-B01-10 | 213433 | 10.76 | 390138 | 13.09 | 1016785 | 7.69 |
| 08 BP-S0-B01-20 | 223311 | 10.76 | 407996 | 13.09 | 1051131 | 7.68 |
| 09 BP-S0-B04-16 | 206661 | 10.76 | 377833 | 13.09 | 982221 | 7.68 |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
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| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E220334
 Lab File ID (Standard): 1C70528 Date Analyzed: 05/28/09
 Instrument ID: HP7 Time Analyzed: 0800
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 347505 | 10.58 | 608599 | 12.91 | 1436696 | 7.50 |
| UPPER LIMIT | 695010 | 10.78 | 1217198 | 13.11 | 2873392 | 7.70 |
| LOWER LIMIT | 173753 | 10.38 | 304300 | 12.71 | 718348 | 7.30 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 440490 | 10.59 | 803289 | 12.91 | 1855564 | 7.51 |
| 02 INTRA-LAB CH | 409919 | 10.59 | 658899 | 12.91 | 1619653 | 7.51 |
| 03 TRIP BLANK | 303110 | 10.58 | 567239 | 12.91 | 1261339 | 7.51 |
| 04 | | | | | | |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
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| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9E220334-001 | Work Order #....: LDLQQ1AE | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 09:00 | Date Received...: 05/22/09 10:15 | MS Run #.....: 9143018 |
| Prep Date.....: 05/23/09 | Analysis Date...: 05/25/09 | |
| Prep Batch #....: 9143020 | Analysis Time...: 18:42 | |
| Dilution Factor: 25 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 25 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1400 | 220 | ug/kg | 34 |
| 2-Methylnaphthalene | 2100 | 220 | ug/kg | 44 |
| Naphthalene | 52000 E | 220 | ug/kg | 33 |
| Acenaphthylene | 1500 | 220 | ug/kg | 45 |
| Acenaphthene | 710 | 220 | ug/kg | 36 |
| Fluorene | 8900 | 220 | ug/kg | 34 |
| Phenanthrene | 5700 | 220 | ug/kg | 27 |
| Anthracene | 1400 | 1100 | ug/kg | 39 |
| Fluoranthene | 6700 | 220 | ug/kg | 19 |
| Pyrene | 4500 | 220 | ug/kg | 59 |
| Benzo (a) anthracene | 2600 | 220 | ug/kg | 36 |
| Chrysene | 2400 | 220 | ug/kg | 39 |
| Benzo (b) fluoranthene | 3200 | 220 | ug/kg | 45 |
| Benzo (k) fluoranthene | ND | 220 | ug/kg | 47 |
| Benzo (a) pyrene | 1800 | 220 | ug/kg | 63 |
| Indeno (1,2,3-cd) pyrene | 1100 | 220 | ug/kg | 12 |
| Dibenzo (a,h) anthracene | 210 J | 220 | ug/kg | 49 |
| Benzo (ghi) perylene | 1200 | 220 | ug/kg | 16 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14 DL

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E220334-001 | Work Order #....: LDLQQ2AE | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 09:00 | Date Received...: 05/22/09 10:15 | MS Run #.....: 9143018 |
| Prep Date.....: 05/23/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9143020 | Analysis Time...: 13:28 | |
| Dilution Factor: 50 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 25 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1900 | 450 | ug/kg | 68 |
| 2-Methylnaphthalene | 2800 | 450 | ug/kg | 88 |
| Naphthalene | 67000 | 450 | ug/kg | 65 |
| Acenaphthylene | 1400 | 450 | ug/kg | 89 |
| Acenaphthene | 920 | 450 | ug/kg | 72 |
| Fluorene | 11000 | 450 | ug/kg | 67 |
| Phenanthrene | 8200 | 450 | ug/kg | 53 |
| Anthracene | 1800 J | 2200 | ug/kg | 78 |
| Fluoranthene | 8000 | 450 | ug/kg | 38 |
| Pyrene | 6800 | 450 | ug/kg | 120 |
| Benzo (a) anthracene | 3400 | 450 | ug/kg | 71 |
| Chrysene | 3300 | 450 | ug/kg | 78 |
| Benzo (b) fluoranthene | 4500 | 450 | ug/kg | 91 |
| Benzo (k) fluoranthene | ND | 450 | ug/kg | 93 |
| Benzo (a) pyrene | 2600 | 450 | ug/kg | 130 |
| Indeno (1,2,3-cd) pyrene | 1600 | 450 | ug/kg | 25 |
| Dibenzo (a,h) anthracene | 450 | 450 | ug/kg | 98 |
| Benzo (ghi) perylene | 1700 | 450 | ug/kg | 33 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Semivolatiles

Lot-Sample #....: C9E220334-002 Work Order #....: LDLTR1AF Matrix.....: SOLID
 Date Sampled....: 05/21/09 09:30 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/25/09
 Prep Batch #....: 9143020 Analysis Time...: 19:48
 Dilution Factor: 39.74 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 37 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3700 | 420 | ug/kg | 63 |
| 2-Methylnaphthalene | 7800 | 420 | ug/kg | 82 |
| Naphthalene | 48000 | 420 | ug/kg | 61 |
| Acenaphthylene | 4200 | 420 | ug/kg | 83 |
| Acenaphthene | 1500 | 420 | ug/kg | 67 |
| Fluorene | 8900 | 420 | ug/kg | 63 |
| Phenanthrene | 36000 | 420 | ug/kg | 50 |
| Anthracene | 11000 | 2100 | ug/kg | 73 |
| Fluoranthene | 39000 | 420 | ug/kg | 35 |
| Pyrene | 20000 | 420 | ug/kg | 110 |
| Benzo (a) anthracene | 14000 | 420 | ug/kg | 67 |
| Chrysene | 14000 | 420 | ug/kg | 73 |
| Benzo (b) fluoranthene | 16000 | 420 | ug/kg | 85 |
| Benzo (k) fluoranthene | ND | 420 | ug/kg | 87 |
| Benzo (a) pyrene | 9800 | 420 | ug/kg | 120 |
| Indeno (1,2,3-cd) pyrene | 5200 | 420 | ug/kg | 23 |
| Dibenzo (a,h) anthracene | 1600 | 420 | ug/kg | 92 |
| Benzo (ghi) perylene | 5400 | 420 | ug/kg | 31 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9E220334-003 | Work Order #....: LDLT31AF | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 12:30 | Date Received...: 05/22/09 10:15 | MS Run #.....: 9143018 |
| Prep Date.....: 05/23/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9143020 | Analysis Time...: 14:34 | |
| Dilution Factor: 12.5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 18 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 330 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 640 | 100 | ug/kg | 20 |
| Naphthalene | 7300 | 100 | ug/kg | 15 |
| Acenaphthylene | 29 J | 100 | ug/kg | 20 |
| Acenaphthene | 160 | 100 | ug/kg | 16 |
| Fluorene | ND | 100 | ug/kg | 15 |
| Phenanthrene | 310 | 100 | ug/kg | 12 |
| Anthracene | 61 J | 500 | ug/kg | 18 |
| Fluoranthene | 200 | 100 | ug/kg | 8.6 |
| Pyrene | 150 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 87 J | 100 | ug/kg | 16 |
| Chrysene | 75 J | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 100 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | ND | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 60 J | 100 | ug/kg | 28 |
| Indeno (1,2,3-cd) pyrene | ND | 100 | ug/kg | 5.6 |
| Dibenzo (a,h) anthracene | ND | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | ND | 100 | ug/kg | 7.5 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E220334-004 | Work Order #... : LDLT61AF | Matrix..... : SOLID |
| Date Sampled... : 05/21/09 15:10 | Date Received... : 05/22/09 10:15 | MS Run #..... : 9143018 |
| Prep Date..... : 05/23/09 | Analysis Date... : 05/26/09 | |
| Prep Batch #... : 9143020 | Analysis Time... : 14:56 | |
| Dilution Factor : 25 | Initial Wgt/Vol : 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 12 | Analyst ID..... : 003200 | Instrument ID... : 731 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 740 | 190 | ug/kg | 29 |
| 2-Methylnaphthalene | 1300 | 190 | ug/kg | 37 |
| Naphthalene | 12000 | 190 | ug/kg | 28 |
| Acenaphthylene | 340 | 190 | ug/kg | 38 |
| Acenaphthene | 1100 | 190 | ug/kg | 31 |
| Fluorene | 1600 | 190 | ug/kg | 29 |
| Phenanthrene | 8000 | 190 | ug/kg | 23 |
| Anthracene | 2400 | 940 | ug/kg | 33 |
| Fluoranthene | 7000 | 190 | ug/kg | 16 |
| Pyrene | 5200 | 190 | ug/kg | 51 |
| Benzo (a) anthracene | 3200 | 190 | ug/kg | 30 |
| Chrysene | 3100 | 190 | ug/kg | 33 |
| Benzo (b) fluoranthene | 3600 | 190 | ug/kg | 39 |
| Benzo (k) fluoranthene | ND | 190 | ug/kg | 40 |
| Benzo (a) pyrene | 2500 | 190 | ug/kg | 53 |
| Indeno (1,2,3-cd) pyrene | 1500 | 190 | ug/kg | 10 |
| Dibenzo (a,h) anthracene | 400 | 190 | ug/kg | 42 |
| Benzo (ghi) perylene | 1500 | 190 | ug/kg | 14 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and report.ng limits have been adjusted for dry weight.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E220334

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|-----------------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B01-14 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-B01-14 RE-1 <i>DL</i> | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B01-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | BP-SO-B04-10 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B04-16 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | SRM | 61 | 58 | 67 | 55 | 61 | 72 | 00 |
| 07 | METHOD BLK. LDMJG1AA | 87 | 107 | 84 | 82 | 89 | 69 | 00 |
| 08 | LCS LDMJG1AC | 55 | 68 | 55 | 56 | 57 | 55 | 00 |
| 09 | BP-SO-B01-14 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 10 | BP-SO-B01-14 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E230000

WO #: LDMJG1AC

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Butyl benzyl phthalate | 333 | 215 | 65 | 40 - 117 | |
| Phenol | 333 | 166 | 50 | 39 - 105 | |
| 2-Chlorophenol | 333 | 174 | 52 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 160 | 48 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 176 | 53 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 165 | 50 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 172 | 52 | 43 - 110 | |
| Acenaphthene | 333 | 175 | 52 | 42 - 104 | |
| 4-Nitrophenol | 333 | 215 | 64 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 192 | 58 | 48 - 118 | |
| Pentachlorophenol | 333 | 197 | 59 | 18 - 125 | |
| Pyrene | 333 | 211 | 63 | 39 - 113 | |
| 4-Methylphenol | 667 | 347 | 52 | 43 - 107 | |
| Hexachloroethane | 333 | 155 | 47 | 40 - 102 | |
| Naphthalene | 333 | 168 | 50 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 197 | 59 | 43 - 111 | |

NOTES (S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E220334

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|-------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 402.21 | ug/Kg | 24.38 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 3174.30 | ug/Kg | 60.23 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 857.49 | ug/Kg | 48.45 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 5605.00 | ug/Kg | 62.84 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 4438.40 | ug/Kg | 45.76 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 2974.40 | ug/Kg | 63.02 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 3595.20 | ug/Kg | 73.98 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2850.40 | ug/Kg | 73.65 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 1251.10 | ug/Kg | 54.40 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 2209.70 | ug/Kg | 51.39 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 1820.30 | ug/Kg | 64.10 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 1574.90 | ug/Kg | 56.65 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-14

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1AF

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | 700 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 530 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 3300 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | 200 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 38000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B01-14

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1AG

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

LDMJG1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: V0524022.

Lot Number: C9E220334

Date Analyzed: 05/24/09

Time Analyzed: 09:41

Matrix: SOLID

Date Extracted: 05/23/09

GC Column: DB5 ID: .25

Extraction Method:

Instrument ID: 731

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B01-14 | LDLQQ1AE | V0525012. | 05/25/09 | 18:42 |
| 02 | BP-SO-B01-14 | LDLQQ1AF S | V0525013. | 05/25/09 | 19:04 |
| 03 | BP-SO-B01-14 | LDLQQ1AG D | V0525014. | 05/25/09 | 19:26 |
| 04 | BP-SO-B01-14 DL | LDLQQ2AE | V0526003. | 05/26/09 | 13:28 |
| 05 | BP-SO-B01-20 | LDLTR1AF | V0525015. | 05/25/09 | 19:48 |
| 06 | BP-SO-B04-10 | LDLT31AF | V0526004. | 05/26/09 | 14:34 |
| 07 | BP-SO-B04-16 | LDLT61AF | V0526005. | 05/26/09 | 14:56 |
| 08 | SRM | LDLT91AA | V0526006. | 05/26/09 | 18:57 |
| 09 | CHECK SAMPLE | LDMJG1AC C | V0524023. | 05/24/09 | 10:25 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9E220334
MB Lot-Sample #: C9E230000-020

Work Order #....: LDMJG1AA

Matrix.....: SOLID

Analysis Date...: 05/24/09
Dilution Factor: 0.5

Prep Date.....: 05/23/09

Prep Batch #....: 9143020

Initial Wgt/Vol: 30 g

Analyst ID.....: 003200

Analysis Time...: 09:41

Final Wgt/Vol...: 0.5 mL

Instrument ID...: 731

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 87 | (27 - 110) |
| Terphenyl-d14 | 107 | (21 - 130) |
| 2-Fluorobiphenyl | 84 | (28 - 108) |
| 2-Fluorophenol | 82 | (28 - 107) |
| Phenol-d5 | 89 | (30 - 112) |
| 2,4,6-Tribromophenol | 69 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E220334
 Lab File ID (Standard): V05240CC Date Analyzed: 05/24/09
 Instrument ID: 731 Time Analyzed: 0857

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 162481 | 4.32 | 571183 | 5.29 | 362902 | 6.63 |
| UPPER LIMIT | 324962 | 4.82 | 1142366 | 5.79 | 725804 | 7.13 |
| LOWER LIMIT | 81241 | 3.82 | 285592 | 4.79 | 181451 | 6.13 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 208303 | 4.32 | 745893 | 5.29 | 474966 | 6.62 |
| 02 INTRA-LAB CH | 198412 | 4.32 | 718290 | 5.29 | 436387 | 6.62 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E220334

Lab File ID (Standard): V05240CC

Date Analyzed: 05/24/09

Instrument ID: 731

Time Analyzed: 0857

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 621100 | 7.76 | 446161 | 9.78 | 343118 | 11.01 |
| UPPER LIMIT | 1242200 | 8.26 | 892322 | 10.28 | 686236 | 11.51 |
| LOWER LIMIT | 310550 | 7.26 | 223081 | 9.28 | 171559 | 10.51 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 867090 | 7.76 | 619774 | 9.78 | 462869 | 11.01 |
| 02 INTRA-LAB CH | 825171 | 7.75 | 642704 | 9.78 | 525075 | 11.01 |
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E220334

Lab File ID (Standard): V05250CC

Date Analyzed: 05/25/09

Instrument ID: 731

Time Analyzed: 1315

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 140775 | 4.36 | 487496 | 5.33 | 311752 | 6.67 |
| UPPER LIMIT | 281550 | 4.86 | 974992 | 5.83 | 623504 | 7.17 |
| LOWER LIMIT | 70388 | 3.86 | 243748 | 4.83 | 155876 | 6.17 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-S0-B01-14 | 146309 | 4.36 | 486035 | 5.33 | 313900 | 6.67 |
| 02 BP-S0-B01-14 | 141461 | 4.36 | 483194 | 5.33 | 308303 | 6.67 |
| 03 BP-S0-B01-14 | 138910 | 4.36 | 470167 | 5.33 | 302978 | 6.67 |
| 04 BP-S0-B01-20 | 141925 | 4.36 | 469399 | 5.32 | 311349 | 6.67 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E220334

Lab File ID (Standard): V05250CC

Date Analyzed: 05/25/09

Instrument ID: 731

Time Analyzed: 1315

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|----|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | 12 HOUR STD | 576137 | 7.81 | 496809 | 9.85 | 496973 | 11.12 |
| | UPPER LIMIT | 1152274 | 8.31 | 993618 | 10.35 | 993946 | 11.62 |
| | LOWER LIMIT | 288069 | 7.31 | 248405 | 9.35 | 248487 | 10.62 |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | CLIENT SAMPLE NO. | | | | | | |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-S0-B01-14 | 676830 | 7.81 | 806547 | 9.85 | 953136 | 11.12 |
| 02 | BP-S0-B01-14 | 644804 | 7.81 | 790893 | 9.84 | 967360 | 11.12 |
| 03 | BP-S0-B01-14 | 637635 | 7.81 | 777503 | 9.85 | 969609 | 11.13 |
| 04 | BP-S0-B01-20 | 638064 | 7.81 | 870525 | 9.85 | 1095019* | 11.13 |
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IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E220334

Lab File ID (Standard): V05260CC

Date Analyzed: 05/26/09

Instrument ID: 731

Time Analyzed: 0907

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 118388 | 4.34 | 405290 | 5.31 | 259297 | 6.64 |
| UPPER LIMIT | 236776 | 4.84 | 810580 | 5.81 | 518594 | 7.14 |
| LOWER LIMIT | 59194 | 3.84 | 202645 | 4.81 | 129649 | 6.14 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-S0-B01-14 | 166719 | 4.34 | 588687 | 5.30 | 372839 | 6.63 |
| 02 BP-S0-B04-10 | 164875 | 4.33 | 569799 | 5.30 | 335611 | 6.63 |
| 03 BP-S0-B04-16 | 162242 | 4.33 | 558699 | 5.30 | 332951 | 6.63 |
| 04 SRM | 157311 | 4.33 | 509582 | 5.29 | 287056 | 6.62 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E220334
 Lab File ID (Standard): V05260CC Date Analyzed: 05/26/09
 Instrument ID: 731 Time Analyzed: 0907

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 484292 | 7.76 | 471718 | 9.78 | 489300 | 11.01 |
| UPPER LIMIT | 968584 | 8.26 | 943436 | 10.28 | 978600 | 11.51 |
| LOWER LIMIT | 242146 | 7.26 | 235859 | 9.28 | 244650 | 10.51 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-S0-B01-14 | 626527 | 7.76 | 569193 | 9.79 | 608588 | 11.02 |
| 02 BP-S0-B04-10 | 513675 | 7.76 | 540654 | 9.78 | 777019 | 11.01 |
| 03 BP-S0-B04-16 | 551008 | 7.76 | 553513 | 9.78 | 749352 | 11.01 |
| 04 SRM | 453954 | 7.76 | 603460 | 9.78 | 945351 | 11.02 |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | | | | | | |
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| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

TOTAL Metals

Lot-Sample #...: C9E220334-001

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 25

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... | 9142458 | | | | | |
| Silver | 0.26 J | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0016 | |
| Arsenic | 6.0 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |
| Beryllium | 0.66 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0025 | |
| Cadmium | 0.92 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0061 | |
| Chromium | 57.9 J | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AT |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0054 | |
| Copper | 35.1 | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AW |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0057 | |
| Nickel | 35.7 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A1 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0046 | |
| Lead | 173 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A4 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0023 | |
| Antimony | 1.2 J | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A7 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0022 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

TOTAL Metals

Lot-Sample #...: C9E220334-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.8 | 0.34 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CA |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Thallium | 0.18 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0013 | |
| Zinc | 309 | 0.34 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0078 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 10.0 | 0.55 | mg/kg | SW846 7471A | 05/26/09 | LDLQQ1CP |
| | | Dilution Factor: 12.5 | | Analysis Time...: 15:27 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.18 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

TOTAL Metals

Lot-Sample #...: C9E220334-002

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 37

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | <u>METHOD</u> | <u>PREPARATION-</u> | <u>WORK</u> |
|----------------------------------|---------------|--------------------------|--------------|-------------------------|-------------------------|-----------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | | <u>ANALYSIS DATE</u> | <u>ORDER #</u> |
| Prep Batch #... : 9142458 | | | | | | |
| Silver | 4.3 J | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0095 | |
| Arsenic | 34.3 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.065 | |
| Beryllium | 1.3 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.015 | |
| Cadmium | 25.5 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | |
| Chromium | 133 J | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.032 | |
| Copper | 268 | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |
| Nickel | 85.6 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Lead | 5420 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AC |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |
| Antimony | 6.0 J | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

TOTAL Metals

Lot-Sample #...: C9E220334-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 5.6 | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTRI1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.16 | |
| Thallium | 3.7 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTRI1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0079 | |
| Zinc | 10900 | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTRI1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.046 | |

Prep Batch #...: 9146208

| | | | | | | |
|----------------|------------|---------------------------|--------------|-------------------------|-------------------------|------------------|
| Mercury | 2.5 | 0.13 | mg/kg | SW846 7471A | 05/26/09 | LDLTRI1AT |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:32 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.043 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

TOTAL Metals

Lot-Sample #... C9E220334-003

Matrix.....: SOLID

Date Sampled... 05/21/09

Date Received... 05/22/09

% Moisture.....: 18

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|--------------------------------|------------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Prep Batch #... 9142458 | | | | | | |
| Silver | 0.083 B,J | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AR |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.0073 | |
| Arsenic | 13.8 | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AG |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.050 | |
| Beryllium | 0.16 B | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AH |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.011 | |
| Cadmium | 0.26 B | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AJ |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.028 | |
| Chromium | 88.7 J | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AK |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.024 | |
| Copper | 230 | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AL |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.026 | |
| Nickel | 78.8 | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AA |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.021 | |
| Lead | 135 | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AC |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.010 | |
| Antimony | 3.3 J | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AD |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:55 | Analyst ID..... 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #..... 9142255 | MDL..... 0.010 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

TOTAL Metals

Lot-Sample #...: C9E220334-003

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.52 B | 1.5 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.12 | |
| Thallium | 0.041 B | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0061 | |
| Zinc | 46.5 | 1.5 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | |

Prep Batch #...: 9146208

| | | | | | | |
|----------------|-----------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | ND | 0.020 | mg/kg | SW846 7471A | 05/26/09 | LDLT31AT |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:57 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0066 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

TOTAL Metals

Lot-Sample #... C9E220334-004

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 12

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|--------------------------------|---------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Prep Batch #... 9142458 | | | | | | |
| Silver | 0.51 J | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AR |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0069 | |
| Arsenic | 5.2 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AG |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.047 | |
| Beryllium | 0.31 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AH |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |
| Cadmium | 4.8 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.026 | |
| Chromium | 1130 J | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AK |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.023 | |
| Copper | 405 | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AL |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.024 | |
| Nickel | 30.8 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AA |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.019 | |
| Lead | 404 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AC |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0097 | |
| Antimony | 2.0 J | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AD |
| | | Dilution Factor: 2.5 | | Analysis Time... 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID... ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0094 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

TOTAL Metals

Lot-Sample #...: C9E220334-004

Matrix.....: SOLID

| REPORTING | | | | PREPARATION- | WORK | |
|--------------------------|--------|---------------------------|-------|-------------------------|-------------------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Selenium | 0.42 B | 1.4 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.12 | |
| Thallium | 0.14 B | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0057 | |
| Zinc | 787 | 1.4 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 1.1 | 0.038 | mg/kg | SW846 7471A | 05/26/09 | LDLT61AT |
| | | Dilution Factor: 1 | | Analysis Time...: 15:34 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.012 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #....: C9E220334-005

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

% Moisture.....:

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------|-----------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: | 9142458 | | | | | |
| Silver | 0.047 B,J | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AP |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0024 |
| Arsenic | 4.4 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AC |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.016 |
| Beryllium | 0.29 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AD |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0037 |
| Cadmium | 0.19 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AE |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0091 |
| Chromium | 20.5 J | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AF |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0080 |
| Copper | 8.2 | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AG |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0085 |
| Nickel | 17.4 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AH |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0068 |
| Lead | 8.2 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AJ |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0034 |
| Antimony | 0.096 B,J | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AK |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0033 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E220334-005

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|-------------------------------------|----------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Selenium | 0.22 B | 0.50 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AL |
| | | Dilution Factor: 1 | | Analysis Time..: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.041 | |
| Thallium | 0.083 B | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AM |
| | | Dilution Factor: 1 | | Analysis Time..: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0020 | |
| Zinc | 29.7 | 0.50 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AN |
| | | Dilution Factor: 1 | | Analysis Time..: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.016 | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDLT91AQ |
| | | Dilution Factor: 0.5 | | Analysis Time..: 15:18 | Analyst ID.....: 403938 | |
| | | Instrument ID..: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0054 | |

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|----------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9E220000-458 Prep Batch #...: 9142458 | | | | | | |
| Antimony | 0.0094 B | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.0084 B | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | 0.013 B | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:42 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------|--------|-------------------------|-------------------------|------------|-------------------------------|-----------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDMEH1AM |
| Dilution Factor: 0.5 | | | | | | |
| | | Analysis Time...: 14:42 | Analyst ID.....: 400149 | | Instrument ID...: ICP | |

MB Lot-Sample #: C9E260000-208 Prep Batch #...: 9146208

| | | | | | | |
|----------------------|----|-------------------------|-------------------------|-------------|-----------------------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDPKH1AA |
| Dilution Factor: 0.5 | | | | | | |
| | | Analysis Time...: 14:44 | Analyst ID.....: 403938 | | Instrument ID...: HGH | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|------------|-------------------------------|-------------------------|
| LCS Lot-Sample#: C9E220000-458 Prep Batch #... : 9142458 | | | | | |
| Arsenic | 84 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AP | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 89 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AQ | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 96 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AR | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 108 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AT | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 86 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AU | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 91 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AV | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 107 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AW | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 91 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AX | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 90 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1AO | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 100 | (80 - 120) | SW846 6020 | 05/22-05/25/09 LDMEH1A1 | |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------------|--------------------|-------------|-------------------------------|--------------|
| Zinc | 84 | (80 - 120) | SW846 6020 | 05/22-05/25/09 | LDMEH1A2 |
| Dilution Factor: 0.5 Analysis Time..: 14:46 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Silver | 101 | (80 - 120) | SW846 6020 | 05/22-05/25/09 | LDMEH1A3 |
| Dilution Factor: 0.5 Analysis Time..: 14:46 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| LCS Lot-Sample#: C9E260000-208 Prep Batch #...: 9146208 | | | | | |
| Mercury | 91 | (80 - 120) | SW846 7471A | 05/26/09 | LDPKH1AC |
| Dilution Factor: 0.5 Analysis Time..: 14:49 Analyst ID.....: 403938 | | | | | |
| Instrument ID...: HGHYDRA | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|--------------------------|------------------|-------------------------|-------------------------------|-------------------------|
| LCS Lot-Sample#: C9E220000-458 Prep Batch #...: 9142458 | | | | | | | |
| Arsenic | 2.00 | 1.69 | mg/kg | 84 | SW846 6020 | 05/22-05/25/09 | LDMEH1AP |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Beryllium | 2.50 | 2.22 | mg/kg | 89 | SW846 6020 | 05/22-05/25/09 | LDMEH1AQ |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Cadmium | 2.50 | 2.41 | mg/kg | 96 | SW846 6020 | 05/22-05/25/09 | LDMEH1AR |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Chromium | 10.0 | 10.8 | mg/kg | 108 | SW846 6020 | 05/22-05/25/09 | LDMEH1AT |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Copper | 12.5 | 10.8 | mg/kg | 86 | SW846 6020 | 05/22-05/25/09 | LDMEH1AU |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Nickel | 25.0 | 22.7 | mg/kg | 91 | SW846 6020 | 05/22-05/25/09 | LDMEH1AV |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Lead | 1.00 | 1.07 | mg/kg | 107 | SW846 6020 | 05/22-05/25/09 | LDMEH1AW |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Antimony | 25.0 | 22.8 | mg/kg | 91 | SW846 6020 | 05/22-05/25/09 | LDMEH1AX |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Selenium | 0.500 | 0.449 | mg/kg | 90 | SW846 6020 | 05/22-05/25/09 | LDMEH1A0 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |
| Thallium | 2.50 | 2.49 | mg/kg | 100 | SW846 6020 | 05/22-05/25/09 | LDMEH1A1 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 14:46 | | Analyst ID.....: 400149 |
| | | | Instrument ID...: ICPMS2 | | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E220334

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| Zinc | 25.0 | 20.9 | mg/kg | 84 | SW846 6020 | 05/22-05/25/09 | LDMEH1A2 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Silver | 2.50 | 2.53 | mg/kg | 101 | SW846 6020 | 05/22-05/25/09 | LDMEH1A3 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: C9E260000-208 Prep Batch #....: 9146208 | | | | | | | |
| Mercury | 0.208 | 0.190 | mg/kg | 91 | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | | | Instrument ID...: HGHYDRA | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|------|------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9142458 | | | | | | | |
| | | | | | | % Moisture.....: 25 | |
| Antimony | 52 N | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A8 |
| | 50 N | (75 - 125) | 3.0 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A9 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Arsenic | 310 N | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AJ |
| | 118 * | (75 - 125) | 44 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AK |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Beryllium | 83 | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AM |
| | 84 | (75 - 125) | 0.93 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AN |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Cadmium | 98 | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AQ |
| | 90 | (75 - 125) | 6.6 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AR |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Chromium | NC | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AU |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1AV |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Copper | 434 N | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AX |
| | 191 N, * | (75 - 125) | 47 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A0 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |
| Lead | NC | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A5 |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A6 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| | PERCENT | RECOVERY | | RPD | | PREPARATION- | WORK |
|------------------|-----------------|-------------------------|------|--------------------------|---------------|-------------------------|----------------|
| <u>PARAMETER</u> | <u>RECOVERY</u> | <u>LIMITS</u> | | <u>LIMITS</u> | <u>METHOD</u> | <u>ANALYSIS DATE</u> | <u>ORDER #</u> |
| Nickel | 31 N | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A2 |
| | 51 N | (75 - 125) | 13 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1A3 |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9142255 | | | | | |
| Selenium | 7.4 N | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CC |
| | 0.0 N | (75 - 125) | 0.0 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CD |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9142255 | | | | | |
| Silver | 95 | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CM |
| | 93 | (75 - 125) | 2.4 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CN |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9142255 | | | | | |
| Thallium | 97 | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CF |
| | 97 | (75 - 125) | 0.15 | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CG |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9142255 | | | | | |
| Zinc | NC | (75 - 125) | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CJ |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 05/22-05/25/09 | LDLQQ1CK |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9142255 | | | | | |

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

| | | | | | | |
|---------|----|-------------------------|--------|---------------------------|-------------------------|----------|
| Mercury | NC | (75 - 125) | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | NC | (75 - 125) | (0-20) | SW846 7471A | 05/26/09 | LDLQQ1CR |
| | | Dilution Factor: 25 | | | | |
| | | Analysis Time...: 15:28 | | Instrument ID...: HGHYDRA | Analyst ID.....: 403938 | |
| | | MS Run #.....: 9146128 | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E220334

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #....: 9142458

% Moisture.....: 25

Antimony

| | | | | | | | | | |
|--|------|--------|-------|----|-----|--|------------|----------------|----------|
| 1.2 | 33.5 | 18.6 N | mg/kg | 52 | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A8 |
| 1.2 | 33.5 | 18.1 N | mg/kg | 50 | 3.0 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A9 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

Arsenic

| | | | | | | | | | |
|--|------|--------|-------|-----|----|--|------------|----------------|----------|
| 6.0 | 2.68 | 14.4 N | mg/kg | 310 | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AJ |
| 6.0 | 2.68 | 9.20 * | mg/kg | 118 | 44 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AK |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

Beryllium

| | | | | | | | | | |
|--|------|------|-------|----|------|--|------------|----------------|----------|
| 0.66 | 3.35 | 3.44 | mg/kg | 83 | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AM |
| 0.66 | 3.35 | 3.47 | mg/kg | 84 | 0.93 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AN |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

Cadmium

| | | | | | | | | | |
|--|------|------|-------|----|-----|--|------------|----------------|----------|
| 0.92 | 3.35 | 4.22 | mg/kg | 98 | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AQ |
| 0.92 | 3.35 | 3.95 | mg/kg | 90 | 6.6 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AR |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

Chromium

| | | | | | | | | | |
|--|------|---------|-------|--|--|--|------------|----------------|----------|
| 57.9 | 13.4 | 43.7 NC | mg/kg | | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AU |
| 57.9 | 13.4 | 48.0 NC | mg/kg | | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AV |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

Copper

| | | | | | | | | | |
|--|------|-------|-------|-----|----|--|------------|----------------|----------|
| 35.1 | 16.8 | 108 N | mg/kg | 434 | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1AX |
| 35.1 | 16.8 | 67.1 | mg/kg | 191 | 47 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A0 |
| Qualifiers: N, * | | | | | | | | | |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:11 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9142255 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| | SAMPLE | SPIKE | MEASRD | PERCNT | | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|--------|--------------------------|------|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 173 | 1.34 | 186 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A5 |
| | 173 | 1.34 | 205 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A6 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Nickel | | | | | | | | | |
| | 35.7 | 33.5 | 46.2 N | mg/kg | 31 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1A2 |
| | 35.7 | 33.5 | 52.7 N | mg/kg | 51 | 13 | SW846 6020 | 05/22-05/25/09 | LDLQQ1A3 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Selenium | | | | | | | | | |
| | 1.8 | 0.671 | 1.88 N | mg/kg | 7.4 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CC |
| | 1.8 | 0.671 | 1.77 N | mg/kg | 0.0 | 0.0 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CD |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Silver | | | | | | | | | |
| | 0.26 | 3.35 | 3.45 | mg/kg | 95 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CM |
| | 0.26 | 3.35 | 3.37 | mg/kg | 93 | 2.4 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CN |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.18 | 3.35 | 3.42 | mg/kg | 97 | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CF |
| | 0.18 | 3.35 | 3.42 | mg/kg | 97 | 0.15 | SW846 6020 | 05/22-05/25/09 | LDLQQ1CG |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |
| Zinc | | | | | | | | | |
| | 309 | 33.5 | 447 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CJ |
| | 309 | 33.5 | 398 NC | mg/kg | | | SW846 6020 | 05/22-05/25/09 | LDLQQ1CK |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:11 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9142255 | | | | | | |

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E220334

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------|-----------|---------------|-------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 10.0 | 0.112 | 15.7 NC | mg/kg | | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | 10.0 | 0.112 | 14.9 NC | mg/kg | | | SW846 7471A | 05/26/09 | LDLQQ1CR |
| Dilution Factor: 25 | | | | | | | | | |
| Analysis Time...: 15:28 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | | | | |
| MS Run #.....: 9146128 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E220334

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|-----------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B01-14 | C9E220334 001 | LDLQQ1CT | 13.2 | mg/kg | 0.12 | 0.67 | 1 | 6/1/2009 - 6/1/2009 14:02 | 9152158 |
| BP-SO-B01-20 | C9E220334 002 | LDLTR1AU | 64.0 | mg/kg | 1.4 | 7.9 | 10 | 6/1/2009 - 6/1/2009 14:29 | 9152158 |
| BP-SO-B04-10 | C9E220334 003 | LDLT31AU | 0.15 B | mg/kg | 0.10 | 0.61 | 1 | 6/1/2009 - 6/1/2009 14:09 | 9152158 |
| BP-SO-B04-16 | C9E220334 004 | LDLT61AU | 9.8 | mg/kg | 0.098 | 0.57 | 1 | 6/1/2009 - 6/1/2009 14:09 | 9152158 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9E220334

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B01-14 | C9E220334 001 | LDLQQ1AA | 74.6 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:36 | 9146024 |
| BP-SO-B01-20 | C9E220334 002 | LDLTR1AE | 63.4 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:36 | 9146024 |
| BP-SO-B04-10 | C9E220334 003 | LDLT31AE | 82.0 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:36 | 9146024 |
| BP-SO-B04-16 | C9E220334 004 | LDLT61AE | 87.5 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:36 | 9146024 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9E220334

Matrix: SOLID

Date/Time Received: 5/22/2009 10:15:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F010000158B | 158 MB | LD4MW1AA | ND | mg/kg | 0.50 | 6/1/2009 - 6/1/2009 14:02 | 9152158 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E220334

Matrix: SOLID

Date/Time Received: 5/22/2009 10:15:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BP-SO-B01-14 | 001 DUP | LDLQQ1C4 | 74.2 | % | 1.0 | 5/26/2009 - 5/27/2009 06:36 | 9146024 | 0.49 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F010000

Matrix: SOLID

Date/Time Received: 5/22/2009 10:15:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LD4MW1AC | 93 | 38 - 162 | 6/1/2009 - 6/1/2009 14:02 | 9152158 | |
| BP-SO-B01-14 | MS | LDLQQ1CU | 138 N | 85 - 115 | 6/1/2009 - 6/1/2009 14:02 | 9152158 | 43 / 20 |
| LAB MS/MSD | MS | LDX7V1DP | 67 N | 85 - 115 | 6/1/2009 - 6/1/2009 14:17 | 9152158 | 15 / 20 |
| BP-SO-B01-14 | MSD | LDLQQ1CV | 19 N * | 85 - 115 | 6/1/2009 - 6/1/2009 14:02 | 9152158 | 43 / 20 |
| LAB MS/MSD | MSD | LDX7V1DQ | 58 N | 85 - 115 | 6/1/2009 - 6/1/2009 14:17 | 9152158 | 15 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E220334

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B01-14 | C9E220334-001 | Soil |
| 1MS | BP-SO-B01-14MS | C9E220334-001MS | Soil |
| 1MSD | BP-SO-B01-14MSD | C9E220334-001MSD | Soil |
| 2 | BP-SO-B01-20 | C9E220334-002 | Soil |
| 3 | BP-SO-B04-10 | C9E220334-003 | Soil |
| 4 | BP-SO-B04-16 | C9E220334-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| 1 | Cyanide | 138%/19%/43 | L/UL | 1, 2, 4 |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

Cyanide, Total

1-4

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E220334

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|------------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B01-14 | C9E220334 001 | LDLQQ1CT | L 13.2 | mg/kg | 0.12 | 0.67 | 1 | 6/1/2009 - 6/1/2009 14:02 | 9152158 |
| BP-SO-B01-20 | C9E220334 002 | LDLTR1AU | L 64.0 | mg/kg | 1.4 | 7.9 | 10 | 6/1/2009 - 6/1/2009 14:29 | 9152158 |
| BP-SO-B04-10 | C9E220334 003 | LDLT31AU | 0.15 PJ | mg/kg | 0.10 | 0.61 | 1 | 6/1/2009 - 6/1/2009 14:09 | 9152158 |
| BP-SO-B04-16 | C9E220334 004 | LDLT61AU | 9.8 L | mg/kg | 0.098 | 0.57 | 1 | 6/1/2009 - 6/1/2009 14:09 | 9152158 |

lw
8/4/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E220334

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B01-14 | C9E220334-001 | Soil |
| 1MS | BP-SO-B01-14MS | C9E220334-001MS | Soil |
| 1MSD | BP-SO-B01-14MSD | C9E220334-001MSD | Soil |
| 2 | BP-SO-B01-20 | C9E220334-002 | Soil |
| 3 | BP-SO-B04-10 | C9E220334-003 | Soil |
| 4 | BP-SO-B04-16 | C9E220334-004 | Soil |
| 5 | SRM | C9E220334-005 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration with the exception of the following:

| Compound | Conc. mg/kg | Action Level mg/kg | Qualifier | Affected Samples |
|----------|----------------|-----------------------|-----------|------------------|
| Silver | 0.013 | 0.065 | B | 5 |

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 1 | Antimony | 52%/50%/Ok | L/UL | 1-4 |
| | Arsenic | 310%/Ok/44 | K | All samples |
| | Copper | 434%/191/47 | K | All samples |
| | Nickel | 31%/51%/Ok | L/UL | All samples |
| | Selenium | 7.4%/0.0%/Ok | L/R | 1, 2 |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

TOTAL Metals

Lot-Sample #....: C9E220334-001

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 25

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: 9142458 | | | | | | |
| Silver | 0.26 J | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0016 |
| Arsenic | 6.0 K | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.011 |
| Beryllium | 0.66 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0025 |
| Cadmium | 0.92 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0061 |
| Chromium | 57.9 J | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AT |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0054 |
| Copper | 35.1 K | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1AW |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0057 |
| Nickel | 35.7 L | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A1 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0046 |
| Lead | 173 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A4 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0023 |
| Antimony | 1.2 J/L | 0.13 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1A7 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0022 |

(Continued on next page)

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8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

TOTAL Metals

Lot-Sample #...: C9E220334-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.8 L | 0.34 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CA |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Thallium | 0.18 | 0.067 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0013 | |
| Zinc | 309 | 0.34 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLQQ1CH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0078 | |
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 10.0 | 0.55 | mg/kg | SW846 7471A | 05/26/09 | LDLQQ1CP |
| | | Dilution Factor: 12.5 | | Analysis Time...: 15:27 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.18 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

hw
8/4/09

Maryland Environmental Service

2

Client Sample ID: BP-SO-B01-20

TOTAL Metals

Lot-Sample #....: C9E220334-002

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 37

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9142458 | | | | | | |
| Silver | 4.3 <i>J</i> | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0095 | |
| Arsenic | 34.3 <i>K</i> | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.065 | |
| Beryllium | 1.3 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.015 | |
| Cadmium | 25.5 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | |
| Chromium | 133 <i>f</i> | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.032 | |
| Copper | 268 <i>K</i> | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |
| Nickel | 85.6 <i>L</i> | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.027 | |
| Lead | 5420 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AC |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |
| Antimony | 6.0 <i>f L</i> | 0.79 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.013 | |

(Continued on next page)

nw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

TOTAL Metals

Lot-Sample #...: C9E220334-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 5.6 L | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.16 | |
| Thallium | 3.7 | 0.39 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0079 | |
| Zinc | 10900 | 2.0 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLTR1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.046 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|-----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 2.5 | 0.13 | mg/kg | SW846 7471A | 05/26/09 | LDLTR1AT |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:32 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.043 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Na
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

TOTAL Metals

Lot-Sample #....: C9E220334-003

Matrix.....: SOLID

Date Sampled....: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 18

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9142458 | | | | | | |
| Silver | 0.083 B J | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0073 | |
| Arsenic | 13.8 K | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.050 | |
| Beryllium | 0.16 J | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.011 | |
| Cadmium | 0.26 J | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.028 | |
| Chromium | 88.7 J | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.024 | |
| Copper | 230 K | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.026 | |
| Nickel | 78.8 L | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.021 | |
| Lead | 135 | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AC |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.010 | |
| Antimony | 3.3 J/L | 0.61 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.010 | |

(Continued on next page)

ew
8/14/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

TOTAL Metals

Lot-Sample #...: C9E220334-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.52 B J | 1.5 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.12 | |
| Thallium | 0.041 B J | 0.30 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0061 | |
| Zinc | 46.5 | 1.5 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT31AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.036 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | ND | 0.020 | mg/kg | SW846 7471A | 05/26/09 | LDLT31AT |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:57 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0066 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

uw
8/4/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

TOTAL Metals

Lot-Sample #...: C9E220334-004

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

% Moisture.....: 12

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9142458 | | | | | |
| Silver | 0.51 <i>J</i> | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0069 |
| Arsenic | 5.2 <i>K</i> | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.047 |
| Beryllium | 0.31 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.011 |
| Cadmium | 4.8 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.026 |
| Chromium | 1130 <i>J</i> | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.023 |
| Copper | 405 <i>K</i> | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.024 |
| Nickel | 30.8 <i>L</i> | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.019 |
| Lead | 404 | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AC |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0097 |
| Antimony | 2.0 <i>J L</i> | 0.57 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | | MDL.....: 0.0094 |

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hw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

TOTAL Metals

Lot-Sample #...: C9E220334-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.42 B J | 1.4 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.12 | |
| Thallium | 0.14 B J | 0.29 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0057 | |
| Zinc | 787 | 1.4 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.033 | |

Prep Batch #...: 9146208

| | | | | | | |
|---------|-----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 1.1 | 0.038 | mg/kg | SW846 7471A | 05/26/09 | LDLT61AT |
| | | Dilution Factor: 1 | | Analysis Time...: 15:34 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.012 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

llw
8/4/09

Maryland Environmental Service

5

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E220334-005

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

% Moisture.....:

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9142458 | | | | | | |
| Silver | 0.047 <i>BAB</i> | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AP |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0024 | |
| Arsenic | 4.4 <i>K</i> | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AC |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.016 | |
| Beryllium | 0.29 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AD |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0037 | |
| Cadmium | 0.19 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AE |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0091 | |
| Chromium | 20.5 <i>V</i> | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AF |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0080 | |
| Copper | 8.2 <i>K</i> | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AG |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0085 | |
| Nickel | 17.4 <i>L</i> | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AH |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0068 | |
| Lead | 8.2 | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AJ |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0034 | |
| Antimony | 0.096 <i>B, J</i> | 0.20 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AK |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0033 | |

(Continued on next page)

fw
8/4/09

Maryland Environmental Service

5

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E220334-005

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.22 B J | 0.50 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AL |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.041 | |
| Thallium | 0.083 B J | 0.10 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AM |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.0020 | |
| Zinc | 29.7 | 0.50 | mg/kg | SW846 6020 | 05/22-05/25/09 | LDLT91AN |
| | | Dilution Factor: 1 | | Analysis Time...: 16:03 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9142255 | MDL.....: 0.012 | |
| Prep Batch #... | 9146208 | | | | | |
| Mercury | 0.016 | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDLT91AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:18 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0054 | |

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E220334

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B01-14 | C9E220334-001 | Soil |
| 1MS | BP-SO-B01-14MS | C9E220334-001MS | Soil |
| 1MSD | BP-SO-B01-14MSD | C9E220334-001MSD | Soil |
| 1DL | BP-SO-B01-14DL | C9E220334-001DL | Soil |
| 2 | BP-SO-B01-20 | C9E220334-002 | Soil |
| 3 | BP-SO-B04-10 | C9E220334-003 | Soil |
| 4 | BP-SO-B04-16 | C9E220334-004 | Soil |
| 5 | SRM | C9E220334-005 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria except the following.

| Sample ID | Internal Standard | Area Count | Qualifier |
|-----------|-------------------|------------|---------------------------------|
| 2 | IS6-Perylene-d6 | J | All associated positive results |

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID # 1 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed this sample. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

EDS sample ID#5 is a performance testing sample. The reviewer included the actual results with the Form I in the report.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Semivolatiles

Lot-Sample #....: C9E220334-001 Work Order #....: LDLQQ1AE Matrix.....: SOLID
 Date Sampled....: 05/21/09 09:00 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/25/09
 Prep Batch #....: 9143020 Analysis Time...: 18:42
 Dilution Factor: 25 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 25 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|-------------------|--------------------|-------|-------|
| 1-Methylnaphthalene | 1400 | 220 | ug/kg | 34 |
| 2-Methylnaphthalene | 2100 | 220 | ug/kg | 44 |
| Naphthalene | 67000 52000 E 450 | 220 | ug/kg | 65 35 |
| Acenaphthylene | 1500 | 220 | ug/kg | 45 |
| Acenaphthene | 710 | 220 | ug/kg | 36 |
| Fluorene | 8900 | 220 | ug/kg | 34 |
| Phenanthrene | 5700 | 220 | ug/kg | 27 |
| Anthracene | 1400 | 1100 | ug/kg | 39 |
| Fluoranthene | 6700 | 220 | ug/kg | 19 |
| Pyrene | 4500 | 220 | ug/kg | 59 |
| Benzo (a) anthracene | 2600 | 220 | ug/kg | 36 |
| Chrysene | 2400 | 220 | ug/kg | 39 |
| Benzo (b) fluoranthene | 3200 | 220 | ug/kg | 45 |
| Benzo (k) fluoranthene | ND | 220 | ug/kg | 47 |
| Benzo (a) pyrene | 1800 | 220 | ug/kg | 63 |
| Indeno (1,2,3-cd) pyrene | 1100 | 220 | ug/kg | 12 |
| Dibenzo (a,h) anthracene | 210 J | 220 | ug/kg | 49 |
| Benzo (ghi) perylene | 1200 | 220 | ug/kg | 16 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14 DL

GC/MS Semivolatiles

use original

Lot-Sample #....: C9E220334-001 Work Order #....: LDLQQ2AE Matrix.....: SOLID
 Date Sampled....: 05/21/09 09:00 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9143020 Analysis Time...: 13:28
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 25 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1900 | 450 | ug/kg | 68 |
| 2-Methylnaphthalene | 2800 | 450 | ug/kg | 88 |
| Naphthalene | 67000 | 450 | ug/kg | 65 |
| Acenaphthylene | 1400 | 450 | ug/kg | 89 |
| Acenaphthene | 920 | 450 | ug/kg | 72 |
| Fluorene | 11000 | 450 | ug/kg | 67 |
| Phenanthrene | 8200 | 450 | ug/kg | 53 |
| Anthracene | 1800 J | 2200 | ug/kg | 78 |
| Fluoranthene | 8000 | 450 | ug/kg | 38 |
| Pyrene | 6800 | 450 | ug/kg | 120 |
| Benzo (a) anthracene | 3400 | 450 | ug/kg | 71 |
| Chrysene | 3300 | 450 | ug/kg | 78 |
| Benzo (b) fluoranthene | 4500 | 450 | ug/kg | 91 |
| Benzo (k) fluoranthene | ND | 450 | ug/kg | 93 |
| Benzo (a) pyrene | 2600 | 450 | ug/kg | 130 |
| Indeno (1,2,3-cd) pyrene | 1600 | 450 | ug/kg | 25 |
| Dibenzo (a,h) anthracene | 450 | 450 | ug/kg | 98 |
| Benzo (ghi) perylene | 1700 | 450 | ug/kg | 33 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

 NW
 8/4/09

2

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Semivolatiles

Lot-Sample #....: C9E220334-002 Work Order #....: LDLTR1AF Matrix.....: SOLID
 Date Sampled....: 05/21/09 09:30 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/25/09
 Prep Batch #....: 9143020 Analysis Time...: 19:48
 Dilution Factor: 39.74 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 37 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3700 | 420 | ug/kg | 63 |
| 2-Methylnaphthalene | 7800 | 420 | ug/kg | 82 |
| Naphthalene | 48000 | 420 | ug/kg | 61 |
| Acenaphthylene | 4200 | 420 | ug/kg | 83 |
| Acenaphthene | 1500 | 420 | ug/kg | 67 |
| Fluorene | 8900 | 420 | ug/kg | 63 |
| Phenanthrene | 36000 | 420 | ug/kg | 50 |
| Anthracene | 11000 | 2100 | ug/kg | 73 |
| Fluoranthene | 39000 | 420 | ug/kg | 35 |
| Pyrene | 20000 | 420 | ug/kg | 110 |
| Benzo (a) anthracene | 14000 | 420 | ug/kg | 67 |
| Chrysene | 14000 | 420 | ug/kg | 73 |
| Benzo (b) fluoranthene | 16000 J | 420 | ug/kg | 85 |
| Benzo (k) fluoranthene | ND | 420 | ug/kg | 87 |
| Benzo (a) pyrene | 9800 J | 420 | ug/kg | 120 |
| Indeno (1,2,3-cd) pyrene | 5200 J | 420 | ug/kg | 23 |
| Dibenzo (a,h) anthracene | 1600 J | 420 | ug/kg | 92 |
| Benzo (ghi) perylene | 5400 J | 420 | ug/kg | 31 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

 NW
 8/4/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Semivolatiles

Lot-Sample #....: C9E220334-003 Work Order #....: LDLT31AF Matrix.....: SOLID
 Date Sampled....: 05/21/09 12:30 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9143020 Analysis Time...: 14:34
 Dilution Factor: 12.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 18 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 330 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 640 | 100 | ug/kg | 20 |
| Naphthalene | 7300 | 100 | ug/kg | 15 |
| Acenaphthylene | 29 J | 100 | ug/kg | 20 |
| Acenaphthene | 160 | 100 | ug/kg | 16 |
| Fluorene | ND | 100 | ug/kg | 15 |
| Phenanthrene | 310 | 100 | ug/kg | 12 |
| Anthracene | 61 J | 500 | ug/kg | 18 |
| Fluoranthene | 200 | 100 | ug/kg | 8.6 |
| Pyrene | 150 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 87 J | 100 | ug/kg | 16 |
| Chrysene | 75 J | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 100 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | ND | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 60 J | 100 | ug/kg | 28 |
| Indeno (1,2,3-cd) pyrene | ND | 100 | ug/kg | 5.6 |
| Dibenzo (a,h) anthracene | ND | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | ND | 100 | ug/kg | 7.5 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

AW
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Semivolatiles

Lot-Sample #....: C9E220334-004 Work Order #....: LDLT61AF Matrix.....: SOLID
 Date Sampled....: 05/21/09 15:10 Date Received...: 05/22/09 10:15 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9143020 Analysis Time...: 14:56
 Dilution Factor: 25 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 12 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 740 | 190 | ug/kg | 29 |
| 2-Methylnaphthalene | 1300 | 190 | ug/kg | 37 |
| Naphthalene | 12000 | 190 | ug/kg | 28 |
| Acenaphthylene | 340 | 190 | ug/kg | 38 |
| Acenaphthene | 1100 | 190 | ug/kg | 31 |
| Fluorene | 1600 | 190 | ug/kg | 29 |
| Phenanthrene | 8000 | 190 | ug/kg | 23 |
| Anthracene | 2400 | 940 | ug/kg | 33 |
| Fluoranthene | 7000 | 190 | ug/kg | 16 |
| Pyrene | 5200 | 190 | ug/kg | 51 |
| Benzo(a)anthracene | 3200 | 190 | ug/kg | 30 |
| Chrysene | 3100 | 190 | ug/kg | 33 |
| Benzo(b)fluoranthene | 3600 | 190 | ug/kg | 39 |
| Benzo(k)fluoranthene | ND | 190 | ug/kg | 40 |
| Benzo(a)pyrene | 2500 | 190 | ug/kg | 53 |
| Indeno(1,2,3-cd)pyrene | 1500 | 190 | ug/kg | 10 |
| Dibenzo(a,h)anthracene | 400 | 190 | ug/kg | 42 |
| Benzo(ghi)perylene | 1500 | 190 | ug/kg | 14 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

new
8/4/09

GC/MS Semivolatiles

| | | | | | |
|------------------|----------------|------------------|----------------|------------------|---------|
| Lot-Sample #.... | C9E220334-005 | Work Order #.... | LDLT91AA | Matrix..... | SOLID |
| Date Sampled.... | 05/21/09 15:10 | Date Received... | 05/22/09 10:15 | MS Run #..... | 9143018 |
| Prep Date..... | 05/23/09 | Analysis Date... | 05/26/09 | | |
| Prep Batch #.... | 9143020 | Analysis Time... | 18:57 | | |
| Dilution Factor: | 15 | Initial Wgt/Vol: | 5 g | Final Wgt/Vol... | 0.5 mL |
| % Moisture..... | | Analyst ID..... | 003200 | Instrument ID... | 731 |
| | | Method..... | SW846 8270C | | |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Nitrobenzene-d5 | 61 | (27 - 110) |
| Terphenyl-d14 | 58 | (21 - 130) |
| 2-Fluorobiphenyl | 67 | (28 - 108) |
| 2-Fluorophenol | 55 | (28 - 107) |
| Phenol-d5 | 61 | (30 - 112) |
| 2,4,6-Tribromophenol | 72 | (21 - 116) |

hw
8/4/09

SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E220334

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|-------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 402.21 | ug/Kg | 24.38 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 3174.30 | ug/Kg | 60.23 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 857.49 | ug/Kg | 48.45 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 5605.00 | ug/Kg | 62.84 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 4438.40 | ug/Kg | 45.76 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 2974.40 | ug/Kg | 63.02 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 3595.20 | ug/Kg | 73.98 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2850.40 | ug/Kg | 73.65 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 1251.10 | ug/Kg | 54.40 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 2209.70 | ug/Kg | 51.39 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 1820.30 | ug/Kg | 64.10 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 1574.90 | ug/Kg | 56.65 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E220334

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B01-14 | C9E220334-001 | Soil |
| 1MS | BP-SO-B01-14MS | C9E220334-001MS | Soil |
| 1MSD | BP-SO-B01-14MSD | C9E220334-001MSD | Soil |
| 2 | BP-SO-B01-20 | C9E220334-002 | Soil |
| 3 | BP-SO-B04-10 | C9E220334-003 | Soil |
| 4 | BP-SO-B04-16 | C9E220334-004 | Soil |
| 5 | TRIP BLANK | C9E220334-006 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-4 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 5 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|--------------|-----------------|-----------|-------------------------------|
| 05/27/09 | Acrolein | 42.0%/0.035 RRF | None | Already qualified due to ICAL |
| 05/28/09 | Chloroethane | 76.6% | J/UJ | 5 |
| | Acrolein | 40.3%/0.030 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-001 | Work Order #....: LDLQ01C1 | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 09:10 | |
| Dilution Factor: 912.4 | Initial Wgt/Vol: 5.48 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 25 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|--------|
| Acrolein | ND R | 6100000 | ug/kg | 970000 |
| Acrylonitrile | ND | 6100000 | ug/kg | 500000 |
| Benzene | 4300000 | 310000 | ug/kg | 61000 |
| Bromodichloromethane | ND | 310000 | ug/kg | 57000 |
| Bromoform | ND | 310000 | ug/kg | 65000 |
| Bromomethane | ND | 310000 | ug/kg | 96000 |
| 2-Butanone (MEK) | ND | 310000 | ug/kg | 66000 |
| Carbon tetrachloride | ND | 310000 | ug/kg | 66000 |
| Chloroethane | ND | 310000 | ug/kg | 46000 |
| 2-Chloroethyl vinyl ether | ND | 610000 | ug/kg | 68000 |
| Chloroform | ND | 310000 | ug/kg | 62000 |
| Chloromethane | ND | 310000 | ug/kg | 57000 |
| Dibromochloromethane | ND | 310000 | ug/kg | 40000 |
| 1,2-Dichlorobenzene | ND | 310000 | ug/kg | 42000 |
| 1,3-Dichlorobenzene | ND | 310000 | ug/kg | 31000 |
| 1,4-Dichlorobenzene | ND | 310000 | ug/kg | 32000 |
| trans-1,2-Dichloroethene | ND | 310000 | ug/kg | 46000 |
| Dichlorodifluoromethane | ND | 310000 | ug/kg | 39000 |
| 1,1-Dichloroethane | ND | 310000 | ug/kg | 62000 |
| 1,2-Dichloroethane | ND | 310000 | ug/kg | 59000 |
| 1,1-Dichloroethene | ND | 310000 | ug/kg | 65000 |
| 1,2-Dichloropropane | ND | 310000 | ug/kg | 78000 |
| cis-1,3-Dichloropropene | ND | 310000 | ug/kg | 44000 |
| trans-1,3-Dichloropropene | ND | 310000 | ug/kg | 36000 |
| Ethylbenzene | 81000 J | 310000 | ug/kg | 38000 |
| Methylene chloride | ND | 310000 | ug/kg | 67000 |
| 1,1,2,2-Tetrachloroethane | ND | 310000 | ug/kg | 57000 |
| Tetrachloroethene | ND | 310000 | ug/kg | 50000 |
| Toluene | 820000 | 310000 | ug/kg | 52000 |
| 1,1,1-Trichloroethane | ND | 310000 | ug/kg | 63000 |
| 1,1,2-Trichloroethane | ND | 310000 | ug/kg | 71000 |
| Trichloroethene | ND | 310000 | ug/kg | 49000 |
| Trichlorofluoromethane | ND | 310000 | ug/kg | 68000 |
| Vinyl chloride | ND | 310000 | ug/kg | 79000 |

(Continued on next page)

lw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-14

GC/MS Volatiles

Lot-Sample #...: C9E220334-001 Work Order #...: LDLQQ1C1 Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 87 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

MW
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-002 | Work Order #....: LDLTR1AM | Matrix.....: SOLID |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 13:07 | |
| Dilution Factor: 18.83 | Initial Wgt/Vol: 5.31 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 37 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-------|
| Acrolein | ND R | 150000 | ug/kg | 24000 |
| Acrylonitrile | ND | 150000 | ug/kg | 12000 |
| Benzene | 140000 | 7400 | ug/kg | 1500 |
| Bromodichloromethane | ND | 7400 | ug/kg | 1400 |
| Bromoform | ND | 7400 | ug/kg | 1600 |
| Bromomethane | ND | 7400 | ug/kg | 2300 |
| 2-Butanone (MEK) | ND | 7400 | ug/kg | 1600 |
| Carbon tetrachloride | ND | 7400 | ug/kg | 1600 |
| Chloroethane | ND | 7400 | ug/kg | 1100 |
| 2-Chloroethyl vinyl ether | ND | 15000 | ug/kg | 1600 |
| Chloroform | ND | 7400 | ug/kg | 1500 |
| Chloromethane | ND | 7400 | ug/kg | 1400 |
| Dibromochloromethane | ND | 7400 | ug/kg | 960 |
| 1,2-Dichlorobenzene | ND | 7400 | ug/kg | 1000 |
| 1,3-Dichlorobenzene | ND | 7400 | ug/kg | 750 |
| 1,4-Dichlorobenzene | ND | 7400 | ug/kg | 780 |
| trans-1,2-Dichloroethene | ND | 7400 | ug/kg | 1100 |
| Dichlorodifluoromethane | ND | 7400 | ug/kg | 940 |
| 1,1-Dichloroethane | ND | 7400 | ug/kg | 1500 |
| 1,2-Dichloroethane | ND | 7400 | ug/kg | 1400 |
| 1,1-Dichloroethene | ND | 7400 | ug/kg | 1600 |
| 1,2-Dichloropropane | ND | 7400 | ug/kg | 1900 |
| cis-1,3-Dichloropropene | ND | 7400 | ug/kg | 1100 |
| trans-1,3-Dichloropropene | ND | 7400 | ug/kg | 860 |
| Ethylbenzene | 920 J | 7400 | ug/kg | 920 |
| Methylene chloride | ND | 7400 | ug/kg | 1600 |
| 1,1,2,2-Tetrachloroethane | ND | 7400 | ug/kg | 1400 |
| Tetrachloroethene | ND | 7400 | ug/kg | 1200 |
| Toluene | 20000 | 7400 | ug/kg | 1300 |
| 1,1,1-Trichloroethane | ND | 7400 | ug/kg | 1500 |
| 1,1,2-Trichloroethane | ND | 7400 | ug/kg | 1700 |
| Trichloroethene | ND | 7400 | ug/kg | 1200 |
| Trichlorofluoromethane | ND | 7400 | ug/kg | 1700 |
| Vinyl chloride | ND | 7400 | ug/kg | 1900 |

(Continued on next page)

hw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B01-20

GC/MS Volatiles

Lot-Sample #....: C9E220334-002 Work Order #....: LDLTR1AM Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 86 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 87 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Volatiles

Lot-Sample #....: C9E220334-003 Work Order #....: LDLT31AM Matrix.....: SOLID
 Date Sampled....: 05/21/09 Date Received...: 05/22/09 MS Run #.....: 9147274
 Prep Date.....: 05/27/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9147429 Analysis Time...: 12:44
 Dilution Factor: 18.66 Initial Wgt/Vol: 5.36 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 18 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|-----------------|-------|-------|
| Acrolein | ND R | 110000 | ug/kg | 18000 |
| Acrylonitrile | ND | 110000 | ug/kg | 9200 |
| Benzene | 79000 | 5700 | ug/kg | 1100 |
| Bromodichloromethane | ND | 5700 | ug/kg | 1100 |
| Bromoform | ND | 5700 | ug/kg | 1200 |
| Bromomethane | ND | 5700 | ug/kg | 1800 |
| 2-Butanone (MEK) | ND | 5700 | ug/kg | 1200 |
| Carbon tetrachloride | ND | 5700 | ug/kg | 1200 |
| Chloroethane | ND | 5700 | ug/kg | 850 |
| 2-Chloroethyl vinyl ether | ND | 11000 | ug/kg | 1300 |
| Chloroform | ND | 5700 | ug/kg | 1100 |
| Chloromethane | ND | 5700 | ug/kg | 1100 |
| Dibromochloromethane | ND | 5700 | ug/kg | 740 |
| 1,2-Dichlorobenzene | ND | 5700 | ug/kg | 780 |
| 1,3-Dichlorobenzene | ND | 5700 | ug/kg | 580 |
| 1,4-Dichlorobenzene | ND | 5700 | ug/kg | 600 |
| trans-1,2-Dichloroethene | ND | 5700 | ug/kg | 860 |
| Dichlorodifluoromethane | ND | 5700 | ug/kg | 720 |
| 1,1-Dichloroethane | ND | 5700 | ug/kg | 1200 |
| 1,2-Dichloroethane | ND | 5700 | ug/kg | 1100 |
| 1,1-Dichloroethene | ND | 5700 | ug/kg | 1200 |
| 1,2-Dichloropropane | ND | 5700 | ug/kg | 1500 |
| cis-1,3-Dichloropropene | ND | 5700 | ug/kg | 830 |
| trans-1,3-Dichloropropene | ND | 5700 | ug/kg | 660 |
| Ethylbenzene | ND | 5700 | ug/kg | 710 |
| Methylene chloride | ND | 5700 | ug/kg | 1200 |
| 1,1,2,2-Tetrachloroethane | ND | 5700 | ug/kg | 1100 |
| Tetrachloroethene | ND | 5700 | ug/kg | 940 |
| Toluene | 3900 J | 5700 | ug/kg | 960 |
| 1,1,1-Trichloroethane | ND | 5700 | ug/kg | 1200 |
| 1,1,2-Trichloroethane | ND | 5700 | ug/kg | 1300 |
| Trichloroethene | ND | 5700 | ug/kg | 910 |
| Trichlorofluoromethane | ND | 5700 | ug/kg | 1300 |
| Vinyl chloride | ND | 5700 | ug/kg | 1500 |

(Continued on next page)

3

Maryland Environmental Service

Client Sample ID: BP-SO-B04-10

GC/MS Volatiles

Lot-Sample #....: C9E220334-003 Work Order #....: LDLT31AM Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 90 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 97 | (63 - 120) |
| Dibromofluoromethane | 90 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/4/09
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Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Volatiles

Lot-Sample #....: C9E220334-004 Work Order #....: LDLT61AM Matrix.....: SOLID
 Date Sampled....: 05/21/09 Date Received...: 05/22/09 MS Run #.....: 9147274
 Prep Date.....: 05/27/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9147429 Analysis Time...: 13:31
 Dilution Factor: 18.38 Initial Wgt/Vol: 5.44 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 12 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|-----------------|-------|-------|
| Acrolein | ND R | 100000 | ug/kg | 17000 |
| Acrylonitrile | ND | 100000 | ug/kg | 8500 |
| Benzene | 91000 | 5200 | ug/kg | 1000 |
| Bromodichloromethane | ND | 5200 | ug/kg | 980 |
| Bromoform | ND | 5200 | ug/kg | 1100 |
| Bromomethane | ND | 5200 | ug/kg | 1700 |
| 2-Butanone (MEK) | ND | 5200 | ug/kg | 1100 |
| Carbon tetrachloride | ND | 5200 | ug/kg | 1100 |
| Chloroethane | ND | 5200 | ug/kg | 780 |
| 2-Chloroethyl vinyl ether | ND | 10000 | ug/kg | 1200 |
| Chloroform | ND | 5200 | ug/kg | 1100 |
| Chloromethane | ND | 5200 | ug/kg | 970 |
| Dibromochloromethane | ND | 5200 | ug/kg | 680 |
| 1,2-Dichlorobenzene | ND | 5200 | ug/kg | 720 |
| 1,3-Dichlorobenzene | ND | 5200 | ug/kg | 530 |
| 1,4-Dichlorobenzene | ND | 5200 | ug/kg | 550 |
| trans-1,2-Dichloroethene | ND | 5200 | ug/kg | 790 |
| Dichlorodifluoromethane | ND | 5200 | ug/kg | 670 |
| 1,1-Dichloroethane | ND | 5200 | ug/kg | 1100 |
| 1,2-Dichloroethane | ND | 5200 | ug/kg | 1000 |
| 1,1-Dichloroethene | ND | 5200 | ug/kg | 1100 |
| 1,2-Dichloropropane | ND | 5200 | ug/kg | 1300 |
| cis-1,3-Dichloropropene | ND | 5200 | ug/kg | 760 |
| trans-1,3-Dichloropropene | ND | 5200 | ug/kg | 610 |
| Ethylbenzene | 1500 J | 5200 | ug/kg | 650 |
| Methylene chloride | ND | 5200 | ug/kg | 1100 |
| 1,1,2,2-Tetrachloroethane | ND | 5200 | ug/kg | 980 |
| Tetrachloroethene | ND | 5200 | ug/kg | 870 |
| Toluene | 32000 | 5200 | ug/kg | 890 |
| 1,1,1-Trichloroethane | ND | 5200 | ug/kg | 1100 |
| 1,1,2-Trichloroethane | ND | 5200 | ug/kg | 1200 |
| Trichloroethene | ND | 5200 | ug/kg | 840 |
| Trichlorofluoromethane | ND | 5200 | ug/kg | 1200 |
| Vinyl chloride | ND | 5200 | ug/kg | 1400 |

(Continued on next page)

814109

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Maryland Environmental Service

Client Sample ID: BP-SO-B04-16

GC/MS Volatiles

Lot-Sample #...: C9E220334-004 Work Order #...: LDLT61AM Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 101 | (72 - 127) |
| 4-Bromofluorobenzene | 95 | (63 - 120) |
| Dibromofluoromethane | 91 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

des
8/4/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E220334-006 | Work Order #....: LDLVE1AA | Matrix.....: WATER |
| Date Sampled....: 05/21/09 | Date Received...: 05/22/09 | MS Run #.....: 9148346 |
| Prep Date.....: 05/28/09 | Analysis Date...: 05/28/09 | |
| Prep Batch #....: 9148566 | Analysis Time...: 15:28 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND WJ | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

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8/4/09

5

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E220334-006 Work Order #....: LDLVE1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 106 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 104 | (75 - 120) |
| Dibromofluoromethane | 103 | (80 - 120) |

hw.
8/4/09
22

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

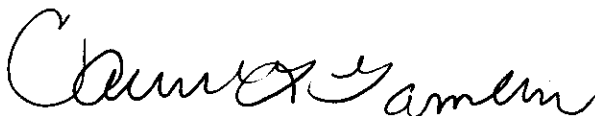
MES Sparrows Point 18001868

Lot #: C9E200178

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

June 3, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E200178

Sample Receiving:

TestAmerica's Pittsburgh laboratory received one sample on May 20, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

The method blanks had methylene chloride detected between the MDL and the reporting limit. The result was flagged with a "J" qualifier. Any sample that had this compound detected had the result flagged with a "B" qualifier.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the SRM was analyzed at a dilution.

The SRM had internal standard perylene-d12 area count not meet criteria due to matrix interference. The samples analyzed before and after this sample had all internal standard area count meet criteria showing that the system was in control.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point Pre-Pilot

LOT # C9E200178

Metals:

The samples (with the exception of the SRM) were analyzed at a dilution for the 6020 analysis due to matrix interference.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

For the matrix spike and matrix spike duplicate, chromium and lead recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike and matrix spike duplicate recovered outside of the control limits for antimony, arsenic, and copper.

The matrix spike duplicate recovered outside of the control limits for selenium and zinc.

The relative percent difference between the matrix spike and the matrix spike duplicate was outside of the control limits for selenium.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9E200178

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9E200178

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LDD99 | 001 | BP-SO-B03-4 | 05/19/09 | 14:10 |
| LDEA7 | 002 | BP-SO-B03-12 | 05/19/09 | 15:20 |
| LDECC | 003 | TRIP BLANK | 05/19/09 | |
| LDGGV | 004 | SRM | 05/19/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cooler Receipt Form

TestAmerica Pittsburgh

Client: MES Project: 5/20/9 Quote: 82013
 Cooler Rec'd & Opened for Temp. Check on: 5/20/9
 Coolers Opened and Unpacked on: 5/20/9 By: JO (Signature)
 TestAmerica Pittsburgh Lot Number: C9E 200178

| | Yes | No | NA |
|--|----------|----|----|
| 1. Were custody seals on the outside of the cooler? <u>✓</u> | <u>✓</u> | | |
| If YES, how many and where? Quantity <u>1</u> Location <u>F</u> | | | |
| Were signatures and date correct? <u>✓</u> | <u>✓</u> | | |
| 2. Were custody papers included inside the cooler? <u>✓</u> | <u>✓</u> | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? <u>✓</u> | <u>✓</u> | | |
| 4. Did you sign the custody papers in the appropriate place? <u>✓</u> | <u>✓</u> | | |
| 5. Was shippers packing slip attached to this form? <u>✓</u> | <u>✓</u> | | |
| 6. Were packing materials used? <u>✓</u> | <u>✓</u> | | |
| If YES, what type? <u>BUBBLE BAGS</u> | | | |
| 7. Were the samples received within the acceptable temperature range? <u>✓</u> | <u>✓</u> | | |
| 8. Were the samples appropriately preserved? <u>✓</u> | <u>✓</u> | | |
| 9. Were all bottles sealed in separate plastic bags? <u>✓</u> | <u>✓</u> | | |
| 10. Did all bottles arrive in good condition (unbroken)? <u>✓</u> | <u>✓</u> | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? <u>✓</u> | <u>✓</u> | | |
| 12. Did all bottle labels and/or tags agree with custody papers? <u>✓</u> | <u>✓</u> | | |
| 13. Were correct bottles used for tests indicated? <u>✓</u> | <u>✓</u> | | |
| 14. Were all VOA vials checked for the presence of air bubbles? <u>✓</u> | <u>✓</u> | | |
| 15. Was a sufficient amount of sample sent in each bottle? <u>✓</u> | <u>✓</u> | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____
 Was contacted on _____ by _____ to resolve discrepancies.

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx Express **US Airbill**

8694 4003 0263

0200

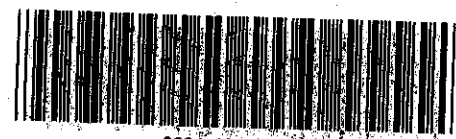
Form
FD No.

FedEx Retrieval Copy

1 From
Date 19/MAY/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name STEVEN YAWKAY Phone 717 487-6632
Company EA ENGINEERING
Address 15 LUNETON CIRCLE
City SPARKS State MD ZIP 21152
Dept./Floor/Suite/Room

2 Your Internal Billing Reference 1453406.0001.0004B 2126

3 To
Recipient's Name SAMPLE RECEIVING Phone 412 963-2428
Company TEST AMERICA
Recipient's Address 301 ALPHA DRIVE, RIDG PARK
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City PITTSBURGH State PA ZIP 15238
Dept./Floor/Suite/Room



8694 4003 0263

4a Express Package Service

1 ☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 ☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

6 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

* FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service

7 ☐ FedEx 1Day Freight*
Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 ☐ FedEx 2Day Freight
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight
Third business day.* Saturday Delivery NOT available.

* Call for Confirmation.

5 Packaging

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak*
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other
* Declared value limit: \$500.

6 Special Handling

3 ☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 ☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.

31 ☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Include FedEx address in Section 3.

Does this shipment contain dangerous goods?
One box must be checked.
☒ No 4 ☐ Yes
As per attached Shipper's Declaration. ☐ Yes
Shipper's Declaration not required.

6 ☐ Dry Ice
Dry Ice, 9, UN 1845 x kg
☐ Cargo Aircraft Only

7 Payment Bill to:

1 ☒ Sender Acct. No. in Section 1 will be billed.

2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

Total Packages 1 Total Weight 2.15

Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

No Signature Required ☐ Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

Rev. Date 10/08-Part #198261-©1994-2006 FedEx-PRINTED IN U.S.A. SRY

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E200178-001 | Work Order #....: LDD991AU | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 | Date Received...: 05/20/09 | MS Run #.....: 9144017 |
| Prep Date.....: 05/24/09 | Analysis Date...: 05/24/09 | |
| Prep Batch #....: 9144028 | Analysis Time...: 12:38 | |
| Dilution Factor: 0.84 | Initial Wgt/Vol: 5.93 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 11 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|-------------|
| Acrolein | ND | 94 | ug/kg | 6.6 |
| Acrylonitrile | ND | 94 | ug/kg | 9.8 |
| Benzene | 41 | 4.7 | ug/kg | 0.64 |
| Bromodichloromethane | ND | 4.7 | ug/kg | 0.53 |
| Bromoform | ND | 4.7 | ug/kg | 0.42 |
| Bromomethane | ND | 4.7 | ug/kg | 0.70 |
| 2-Butanone (MEK) | ND | 4.7 | ug/kg | 0.83 |
| Carbon tetrachloride | ND | 4.7 | ug/kg | 0.42 |
| Chloroethane | ND | 4.7 | ug/kg | 1.5 |
| 2-Chloroethyl vinyl ether | ND | 9.4 | ug/kg | 0.73 |
| Chloroform | ND | 4.7 | ug/kg | 0.55 |
| Chloromethane | ND | 4.7 | ug/kg | 0.80 |
| Dibromochloromethane | ND | 4.7 | ug/kg | 0.67 |
| 1,2-Dichlorobenzene | ND | 4.7 | ug/kg | 0.75 |
| 1,3-Dichlorobenzene | ND | 4.7 | ug/kg | 0.62 |
| 1,4-Dichlorobenzene | ND | 4.7 | ug/kg | 0.60 |
| trans-1,2-Dichloroethene | ND | 4.7 | ug/kg | 0.56 |
| Dichlorodifluoromethane | ND | 4.7 | ug/kg | 0.63 |
| 1,1-Dichloroethane | ND | 4.7 | ug/kg | 0.54 |
| 1,2-Dichloroethane | ND | 4.7 | ug/kg | 0.58 |
| 1,1-Dichloroethene | ND | 4.7 | ug/kg | 0.80 |
| 1,2-Dichloropropane | ND | 4.7 | ug/kg | 0.51 |
| cis-1,3-Dichloropropene | ND | 4.7 | ug/kg | 0.64 |
| trans-1,3-Dichloropropene | ND | 4.7 | ug/kg | 0.56 |
| Ethylbenzene | ND | 4.7 | ug/kg | 0.61 |
| Methylene chloride | 1.6 J,B | 4.7 | ug/kg | 0.63 |
| 1,1,2,2-Tetrachloroethane | ND | 4.7 | ug/kg | 0.68 |
| Tetrachloroethene | ND | 4.7 | ug/kg | 0.64 |
| Toluene | 8.8 | 4.7 | ug/kg | 0.69 |
| 1,1,1-Trichloroethane | ND | 4.7 | ug/kg | 0.46 |
| 1,1,2-Trichloroethane | ND | 4.7 | ug/kg | 0.78 |
| Trichloroethene | ND | 4.7 | ug/kg | 0.62 |
| Trichlorofluoromethane | ND | 4.7 | ug/kg | 0.87 |
| Vinyl chloride | ND | 4.7 | ug/kg | 0.44 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Volatiles

Lot-Sample #....: C9E200178-001 Work Order #....: LDD991AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 84 | (52 - 124) |
| Toluene-d8 | 101 | (72 - 127) |
| 4-Bromofluorobenzene | 92 | (63 - 120) |
| Dibromofluoromethane | 77 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E200178-002 | Work Order #....: LDEA71AU | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 | Date Received...: 05/20/09 | MS Run #.....: 9144017 |
| Prep Date.....: 05/24/09 | Analysis Date...: 05/24/09 | |
| Prep Batch #....: 9144028 | Analysis Time...: 13:02 | |
| Dilution Factor: 0.88 | Initial Wgt/Vol: 5.65 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 9.8 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|-------------|
| Acrolein | ND | 98 | ug/kg | 6.9 |
| Acrylonitrile | ND | 98 | ug/kg | 10 |
| Benzene | 72 | 4.9 | ug/kg | 0.66 |
| Bromodichloromethane | ND | 4.9 | ug/kg | 0.55 |
| Bromoform | ND | 4.9 | ug/kg | 0.43 |
| Bromomethane | ND | 4.9 | ug/kg | 0.72 |
| 2-Butanone (MEK) | ND | 4.9 | ug/kg | 0.86 |
| Carbon tetrachloride | ND | 4.9 | ug/kg | 0.44 |
| Chloroethane | ND | 4.9 | ug/kg | 1.5 |
| 2-Chloroethyl vinyl ether | ND | 9.8 | ug/kg | 0.75 |
| Chloroform | ND | 4.9 | ug/kg | 0.57 |
| Chloromethane | ND | 4.9 | ug/kg | 0.83 |
| Dibromochloromethane | ND | 4.9 | ug/kg | 0.69 |
| 1,2-Dichlorobenzene | ND | 4.9 | ug/kg | 0.78 |
| 1,3-Dichlorobenzene | ND | 4.9 | ug/kg | 0.64 |
| 1,4-Dichlorobenzene | ND | 4.9 | ug/kg | 0.62 |
| trans-1,2-Dichloroethene | ND | 4.9 | ug/kg | 0.58 |
| Dichlorodifluoromethane | ND | 4.9 | ug/kg | 0.65 |
| 1,1-Dichloroethane | ND | 4.9 | ug/kg | 0.56 |
| 1,2-Dichloroethane | ND | 4.9 | ug/kg | 0.60 |
| 1,1-Dichloroethene | ND | 4.9 | ug/kg | 0.83 |
| 1,2-Dichloropropane | ND | 4.9 | ug/kg | 0.53 |
| cis-1,3-Dichloropropene | ND | 4.9 | ug/kg | 0.66 |
| trans-1,3-Dichloropropene | ND | 4.9 | ug/kg | 0.58 |
| Ethylbenzene | ND | 4.9 | ug/kg | 0.63 |
| Methylene chloride | 1.8 J,B | 4.9 | ug/kg | 0.66 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 | ug/kg | 0.70 |
| Tetrachloroethene | ND | 4.9 | ug/kg | 0.66 |
| Toluene | 23 | 4.9 | ug/kg | 0.71 |
| 1,1,1-Trichloroethane | ND | 4.9 | ug/kg | 0.47 |
| 1,1,2-Trichloroethane | ND | 4.9 | ug/kg | 0.81 |
| Trichloroethene | ND | 4.9 | ug/kg | 0.64 |
| Trichlorofluoromethane | ND | 4.9 | ug/kg | 0.90 |
| Vinyl chloride | ND | 4.9 | ug/kg | 0.46 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Volatiles

Lot-Sample #....: C9E200178-002 Work Order #....: LDEA71AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 89 | (63 - 120) |
| Dibromofluoromethane | 82 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------------|----------------------------------|------------------------------|
| Lot-Sample #.... C9E200178-003 | Work Order #.... LDECC1AA | Matrix..... WATER |
| Date Sampled.... 05/19/09 | Date Received... 05/20/09 | MS Run #..... 9146126 |
| Prep Date..... 05/24/09 | Analysis Date... 05/24/09 | |
| Prep Batch #.... 9146204 | Analysis Time... 16:06 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol... 5 mL |
| Analyst ID..... 034635 | Instrument ID... HP7 | |
| | Method..... SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E200178-003 Work Order #....: LDECC1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (62 - 123) |
| Toluene-d8 | 107 | (80 - 120) |
| 4-Bromofluorobenzene | 99 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E200178

Extraction: XXA4DQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|--------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B03-4 | 84 | 101 | 92 | 77 | 00 |
| 02 | BP-SO-B03-12 | 81 | 100 | 89 | 82 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E200178

Extraction: XXA4PQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 82 | 98 | 86 | 92 | 00 |
| 02 | METHOD BLK. LDN011AA | 92 | 97 | 89 | 86 | 00 |
| 03 | LCS LDN011AC | 89 | 86 | 80 | 87 | 00 |
| 04 | LAB MS/MSD D | 89 | 95 | 87 | 88 | 00 |
| 05 | LAB MS/MSD S | 91 | 91 | 88 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E200178

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 107 | 108 | 100 | 101 | 00 |
| 02 | TRIP BLANK | 102 | 107 | 99 | 101 | 00 |
| 03 | METHOD BLK. LDPJ61AA | 112 | 97 | 93 | 100 | 00 |
| 04 | LCS LDPJ61AC | 104 | 103 | 96 | 100 | 00 |
| 05 | LAB MS/MSD D | 107 | 105 | 98 | 100 | 00 |
| 06 | LAB MS/MSD S | 112 | 99 | 97 | 99 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E240000

WO #: LDN011AC

BATCH: 9144028

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 40.0 | 37.4 | 93 | 59 - 129 | |
| Trichloroethene | 40.0 | 38.5 | 96 | 76 - 119 | |
| Benzene | 40.0 | 36.9 | 92 | 77 - 120 | |
| Toluene | 40.0 | 36.3 | 91 | 78 - 124 | |
| Chlorobenzene | 40.0 | 37.3 | 93 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E260000

WO #: LDPJ61AC

BATCH: 9146204

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 35.9 | 90 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 80 - 120 | |
| Benzene | 40.0 | 39.9 | 100 | 80 - 120 | |
| Toluene | 40.0 | 41.1 | 103 | 80 - 124 | |
| Chlorobenzene | 40.0 | 40.1 | 100 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E150293

WO #: LC6EV1AC

BATCH: 9144028

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,1-Dichloroethene | 49.4 | ND | 47.7 | 96 | 59 - 129 | |
| Trichloroethene | 49.4 | ND | 48.6 | 98 | 76 - 119 | |
| Benzene | 49.4 | ND | 46.2 | 93 | 77 - 120 | |
| Toluene | 49.4 | ND | 45.7 | 92 | 78 - 124 | |
| Chlorobenzene | 49.4 | ND | 48.4 | 98 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E150293

WO #: LC6EV1AD

BATCH: 9144028

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|------------|----------|
| | ADDED (ug/kg) | CONCENT. (ug/kg) | % REC | % RPD | RPD REC | |
| 1,1-Dichloroethene | 50.9 | 51.8 | 102 | 8.2 | 25 | 59 - 129 |
| Trichloroethene | 50.9 | 51.5 | 101 | 5.9 | 21 | 76 - 119 |
| Benzene | 50.9 | 49.3 | 97 | 6.6 | 20 | 77 - 120 |
| Toluene | 50.9 | 51.5 | 101 | 12 | 21 | 78 - 124 |
| Chlorobenzene | 50.9 | 53.1 | 104 | 9.2 | 20 | 79 - 120 |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E140321

WO #: LC3D01AC

BATCH: 9146204

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 35.2 | 88 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 37.4 | 94 | 80 - 120 | |
| Benzene | 40.0 | ND | 40.3 | 101 | 80 - 120 | |
| Toluene | 40.0 | ND | 40.5 | 101 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 39.6 | 99 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E140321

WO #: LC3D01AD

BATCH: 9146204

| COMPOUND | SPIKE | MSD | MSD | | QC LIMITS | QUAL |
|--------------------|------------------|---------------------|----------|----------|-------------|------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD REC | |
| 1,1-Dichloroethene | 40.0 | 36.5 | 91 | 3.5 | 20 69 - 127 | |
| Trichloroethene | 40.0 | 38.7 | 97 | 3.4 | 20 80 - 120 | |
| Benzene | 40.0 | 40.0 | 100 | 0.54 | 20 80 - 120 | |
| Toluene | 40.0 | 41.9 | 105 | 3.4 | 20 80 - 124 | |
| Chlorobenzene | 40.0 | 41.1 | 103 | 3.7 | 20 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDN011AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 3052401.D

Lot Number: C9E200178

Date Analyzed: 05/24/09

Time Analyzed: 11:49

Matrix: SOLID

Date Extracted: 05/24/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP3

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LC6EV1AA | 3052402.D | 05/24/09 | 12:13 |
| 02 | LAB MS/MSD | LC6EV1AC S | 3052406.D | 05/24/09 | 13:52 |
| 03 | LAB MS/MSD | LC6EV1AD D | 3052407.D | 05/24/09 | 14:16 |
| 04 | BP-SO-B03-4 | LDD991AU | 3052403.D | 05/24/09 | 12:38 |
| 05 | BP-SO-B03-12 | LDEA71AU | 3052404.D | 05/24/09 | 13:02 |
| 06 | CHECK SAMPLE | LDN011AC C | 3052405.D | 05/24/09 | 13:27 |
| 07 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E200178
MB Lot-Sample #: C9E240000-028

Work Order #...: LDN011AA

Matrix.....: SOLID

Analysis Date...: 05/24/09
Dilution Factor: 1

Prep Date.....: 05/24/09
Prep Batch #...: 9144028
Initial Wgt/Vol: 5 g
Analyst ID.....: 010099

Analysis Time...: 11:49
Final Wgt/Vol...: 5 mL
Instrument ID...: HP3

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|------------|--------------|--------------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 100 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/kg | SW846 8260B |
| Benzene | ND | 5.0 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Bromoform | ND | 5.0 | ug/kg | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/kg | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | SW846 8260B |
| Chloroform | ND | 5.0 | ug/kg | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Methylene chloride | 1.3 J | 5.0 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Toluene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 92 | (52 - 124) |
| Toluene-d8 | 97 | (72 - 127) |
| 4-Bromofluorobenzene | 89 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E200178

Work Order #...: LDN011AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 86 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LDPJ61AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7052401.D

Lot Number: C9E200178

Date Analyzed: 05/24/09

Time Analyzed: 12:12

Matrix: WATER

Date Extracted: 05/24/09

GC Column: ID: .00

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LC3D01AA | 7052418.D | 05/24/09 | 19:54 |
| 02 | LAB MS/MSD | LC3D01AC S | 7052403.D | 05/24/09 | 13:00 |
| 03 | LAB MS/MSD | LC3D01AD D | 7052405.D | 05/24/09 | 13:47 |
| 04 | TRIP BLANK | LDECC1AA | 7052409.D | 05/24/09 | 16:06 |
| 05 | CHECK SAMPLE | LDPJ61AC C | 7052404.D | 05/24/09 | 13:23 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E200178
MB Lot-Sample #: C9E260000-204

Work Order #...: LDPJ61AA

Matrix.....: WATER

Analysis Date...: 05/24/09
Dilution Factor: 1

Prep Date.....: 05/24/09
Prep Batch #...: 9146204
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 12:12
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------------|------------|-------------|--|--------------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 100 | ug/L | | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | | SW846 8260B |
| Methylene chloride | 1.2 J | 5.0 | ug/L | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 112 | (62 - 123) |
| Toluene-d8 | 97 | (80 - 120) |
| 4-Bromofluorobenzene | 93 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C9E200178

Work Order #....: LDPJ61AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 100 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E200178
 Lab File ID (Standard): CC70524 Date Analyzed: 05/24/09
 Instrument ID: HP7 Time Analyzed: 1112
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 266436 | 10.58 | 404463 | 12.91 | 1008830 | 7.50 |
| UPPER LIMIT | 532872 | 10.78 | 808926 | 13.11 | 2017660 | 7.70 |
| LOWER LIMIT | 133218 | 10.38 | 202232 | 12.71 | 504415 | 7.30 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 352678 | 10.58 | 522669 | 12.91 | 1409966 | 7.50 |
| 02 INTRA-LAB CH | 286780 | 10.59 | 419585 | 12.90 | 1139244 | 7.50 |
| 03 TRIP BLANK | 295061 | 10.59 | 405983 | 12.90 | 1215907 | 7.50 |
| 04 | | | | | | |
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| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E200178
 Lab File ID (Standard): CC30524 Date Analyzed: 05/24/09
 Instrument ID: HP3 Time Analyzed: 1102
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 (CBZ) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|-------------------|---------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 200395 | 7.40 | 48055 | 10.49 | 107284 | 12.81 |
| UPPER LIMIT | 400790 | 7.60 | 96110 | 10.69 | 214568 | 13.01 |
| LOWER LIMIT | 100198 | 7.20 | 24028 | 10.29 | 53642 | 12.61 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 314148 | 7.42 | 76655 | 10.49 | 147309 | 12.81 |
| 02 BP-SO-B03-4 | 354802 | 7.41 | 81671 | 10.49 | 183957 | 12.81 |
| 03 BP-SO-B03-12 | 346637 | 7.41 | 80293 | 10.49 | 180183 | 12.81 |
| 04 INTRA-LAB CH | 204006 | 7.41 | 51310 | 10.49 | 115281 | 12.81 |
| 05 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E200178-001 | Work Order #... : LDD991AC | Matrix..... : SOLID |
| Date Sampled... : 05/19/09 14:10 | Date Received... : 05/20/09 09:30 | MS Run #..... : 9143018 |
| Prep Date..... : 05/23/09 | Analysis Date... : 05/26/09 | |
| Prep Batch #... : 9143020 | Analysis Time... : 15:18 | |
| Dilution Factor: 0.5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 11 | Analyst ID..... : 003200 | Instrument ID... : 731 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 17 | 3.8 | ug/kg | 0.57 |
| 2-Methylnaphthalene | 27 | 3.8 | ug/kg | 0.74 |
| Naphthalene | 220 | 3.8 | ug/kg | 0.54 |
| Acenaphthylene | 3.8 | 3.8 | ug/kg | 0.75 |
| Acenaphthene | 14 | 3.8 | ug/kg | 0.60 |
| Fluorene | 5.8 | 3.8 | ug/kg | 0.56 |
| Phenanthrene | 33 | 3.8 | ug/kg | 0.45 |
| Anthracene | 5.6 J | 19 | ug/kg | 0.66 |
| Fluoranthene | 29 | 3.8 | ug/kg | 0.32 |
| Pyrene | 27 | 3.8 | ug/kg | 0.99 |
| Benzo (a) anthracene | 28 | 3.8 | ug/kg | 0.60 |
| Chrysene | 30 | 3.8 | ug/kg | 0.65 |
| Benzo (b) fluoranthene | 65 | 3.8 | ug/kg | 0.76 |
| Benzo (k) fluoranthene | ND | 3.8 | ug/kg | 0.78 |
| Benzo (a) pyrene | 47 | 3.8 | ug/kg | 1.0 |
| Indeno (1,2,3-cd) pyrene | 42 | 3.8 | ug/kg | 0.21 |
| Dibenzo (a,h) anthracene | 12 | 3.8 | ug/kg | 0.82 |
| Benzo (ghi) perylene | 47 | 3.8 | ug/kg | 0.27 |

| SURROGATE | PERCENT | | RECOVERY | |
|----------------------|----------|--|------------|--|
| | RECOVERY | | LIMITS | |
| Nitrobenzene-d5 | 95 | | (27 - 110) | |
| Terphenyl-d14 | 100 | | (21 - 130) | |
| 2-Fluorobiphenyl | 95 | | (28 - 108) | |
| 2-Fluorophenol | 69 | | (28 - 107) | |
| Phenol-d5 | 83 | | (30 - 112) | |
| 2,4,6-Tribromophenol | 57 | | (21 - 116) | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9E200178-002 | Work Order #....: LDEA71AC | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 15:20 | Date Received...: 05/20/09 09:30 | MS Run #.....: 9143018 |
| Prep Date.....: 05/23/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9143020 | Analysis Time...: 15:40 | |
| Dilution Factor: 0.5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 9.8 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 18 | 3.7 | ug/kg | 0.56 |
| 2-Methylnaphthalene | 38 | 3.7 | ug/kg | 0.73 |
| Naphthalene | 460 | 3.7 | ug/kg | 0.54 |
| Acenaphthylene | 7.8 | 3.7 | ug/kg | 0.74 |
| Acenaphthene | 7.2 | 3.7 | ug/kg | 0.59 |
| Fluorene | 11 | 3.7 | ug/kg | 0.56 |
| Phenanthrene | 51 | 3.7 | ug/kg | 0.44 |
| Anthracene | 12 J | 18 | ug/kg | 0.65 |
| Fluoranthene | 18 | 3.7 | ug/kg | 0.31 |
| Pyrene | 13 | 3.7 | ug/kg | 0.98 |
| Benzo (a) anthracene | 7.3 | 3.7 | ug/kg | 0.59 |
| Chrysene | 7.8 | 3.7 | ug/kg | 0.65 |
| Benzo (b) fluoranthene | 13 | 3.7 | ug/kg | 0.75 |
| Benzo (k) fluoranthene | ND | 3.7 | ug/kg | 0.77 |
| Benzo (a) pyrene | 8.4 | 3.7 | ug/kg | 1.0 |
| Indeno (1,2,3-cd) pyrene | 7.3 | 3.7 | ug/kg | 0.20 |
| Dibenzo (a,h) anthracene | 2.0 J | 3.7 | ug/kg | 0.81 |
| Benzo (ghi) perylene | 8.8 | 3.7 | ug/kg | 0.27 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| | | |
| Nitrobenzene-d5 | 84 | (27 - 110) |
| Terphenyl-d14 | 95 | (21 - 130) |
| 2-Fluorobiphenyl | 87 | (28 - 108) |
| 2-Fluorophenol | 68 | (28 - 107) |
| Phenol-d5 | 76 | (30 - 112) |
| 2,4,6-Tribromophenol | 60 | (21 - 116) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: SRM

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E200178-004 | Work Order #....: LDGGV1AA | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 | Date Received...: 05/20/09 09:30 | MS Run #.....: 9143018 |
| Prep Date.....: 05/23/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9143020 | Analysis Time...: 19:41 | |
| Dilution Factor: 15 | Initial Wgt/Vol: 5 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 180 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 230 | 100 | ug/kg | 20 |
| Naphthalene | 390 | 100 | ug/kg | 15 |
| Acenaphthylene | 770 | 100 | ug/kg | 20 |
| Acenaphthene | 210 | 100 | ug/kg | 16 |
| Fluorene | 250 | 100 | ug/kg | 15 |
| Phenanthrene | 3100 | 100 | ug/kg | 12 |
| Anthracene | 950 | 500 | ug/kg | 18 |
| Fluoranthene | 6000 | 100 | ug/kg | 8.4 |
| Pyrene | 4100 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 2700 | 100 | ug/kg | 16 |
| Chrysene | 3700 | 100 | ug/kg | 17 |
| Benzo (b) fluoranthene | 2700 | 100 | ug/kg | 20 |
| Benzo (k) fluoranthene | 1200 | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 2100 | 100 | ug/kg | 28 |
| Indeno (1,2,3-cd) pyrene | 1500 | 100 | ug/kg | 5.5 |
| Dibenzo (a,h) anthracene | 540 | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | 1700 | 100 | ug/kg | 7.4 |

| SURROGATE | PERCENT | | RECOVERY | |
|----------------------|----------|--|------------|--|
| | RECOVERY | | LIMITS | |
| Nitrobenzene-d5 | 61 | | (27 - 110) | |
| Terphenyl-d14 | 55 | | (21 - 130) | |
| 2-Fluorobiphenyl | 67 | | (28 - 108) | |
| 2-Fluorophenol | 56 | | (28 - 107) | |
| Phenol-d5 | 57 | | (30 - 112) | |
| 2,4,6-Tribromophenol | 68 | | (21 - 116) | |

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E200178

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B03-4 | 95 | 100 | 95 | 69 | 83 | 57 | 00 |
| 02 | BP-SO-B03-12 | 84 | 95 | 87 | 68 | 76 | 60 | 00 |
| 03 | SRM | 61 | 55 | 67 | 56 | 57 | 68 | 00 |
| 04 | INTRA-LAB QC | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | METHOD BLK. LDMJG1AA | 87 | 107 | 84 | 82 | 89 | 69 | 00 |
| 06 | LCS LDMJG1AC | 55 | 68 | 55 | 56 | 57 | 55 | 00 |
| 07 | LAB MS/MSD D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | LAB MS/MSD S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E230000

WO #: LDMJG1AC

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Butyl benzyl phthalate | 333 | 215 | 65 | 40 - 117 | |
| Phenol | 333 | 166 | 50 | 39 - 105 | |
| 2-Chlorophenol | 333 | 174 | 52 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 160 | 48 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 176 | 53 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 165 | 50 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 172 | 52 | 43 - 110 | |
| Acenaphthene | 333 | 175 | 52 | 42 - 104 | |
| 4-Nitrophenol | 333 | 215 | 64 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 192 | 58 | 48 - 118 | |
| Pentachlorophenol | 333 | 197 | 59 | 18 - 125 | |
| Pyrene | 333 | 211 | 63 | 39 - 113 | |
| 4-Methylphenol | 667 | 347 | 52 | 43 - 107 | |
| Hexachloroethane | 333 | 155 | 47 | 40 - 102 | |
| Naphthalene | 333 | 168 | 50 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 197 | 59 | 43 - 111 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E200178

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|--------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 392.10 | ug/Kg | 23.76 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 3061.70 | ug/Kg | 58.10 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 950.28 | ug/Kg | 53.69 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 5953.10 | ug/Kg | 66.74 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 4100.80 | ug/Kg | 42.28 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 3689.70 | ug/Kg | 78.17 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 14202.00 | ug/Kg | 292.22 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2747.30 | ug/Kg | 70.99 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 1194.70 | ug/Kg | 51.94 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 2130.10 | ug/Kg | 49.54 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 1658.90 | ug/Kg | 58.41 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 1504.80 | ug/Kg | 54.13 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1AF

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | 700 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 530 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 3300 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | 200 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 38000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1AG

BATCH: 9143020

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDMJG1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: V0524022.

Lot Number: C9E200178

Date Analyzed: 05/24/09

Time Analyzed: 09:41

Matrix: SOLID

Date Extracted:05/23/09

GC Column: DB5 ID: .25

Extraction Method:

Instrument ID: 731

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B03-4 | LDD991AC | V0526007. | 05/26/09 | 15:18 |
| 02 | BP-SO-B03-12 | LDEA71AC | V0526008. | 05/26/09 | 15:40 |
| 03 | SRM | LDGGV1AA | V0526009. | 05/26/09 | 19:41 |
| 04 | INTRA-LAB QC | LDLQQ1AE | V0525012. | 05/25/09 | 18:42 |
| 05 | LAB MS/MSD | LDLQQ1AF S | V0525013. | 05/25/09 | 19:04 |
| 06 | LAB MS/MSD | LDLQQ1AG D | V0525014. | 05/25/09 | 19:26 |
| 07 | CHECK SAMPLE | LDMJG1AC C | V0524023. | 05/24/09 | 10:25 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9E200178
MB Lot-Sample #: C9E230000-020

Work Order #....: LDMJG1AA

Matrix.....: SOLID

Analysis Date...: 05/24/09
Dilution Factor: 0.5

Prep Date.....: 05/23/09

Prep Batch #....: 9143020

Initial Wgt/Vol: 30 g

Analyst ID.....: 003200

Analysis Time...: 09:41

Final Wgt/Vol...: 0.5 mL

Instrument ID...: 731

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 87 | (27 - 110) |
| Terphenyl-d14 | 107 | (21 - 130) |
| 2-Fluorobiphenyl | 84 | (28 - 108) |
| 2-Fluorophenol | 82 | (28 - 107) |
| Phenol-d5 | 89 | (30 - 112) |
| 2,4,6-Tribromophenol | 69 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E200178
 Lab File ID (Standard): V05240CC Date Analyzed: 05/24/09
 Instrument ID: 731 Time Analyzed: 0857

| | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 162481 | 4.32 | 571183 | 5.29 | 362902 | 6.63 |
| UPPER LIMIT | 324962 | 4.82 | 1142366 | 5.79 | 725804 | 7.13 |
| LOWER LIMIT | 81241 | 3.82 | 285592 | 4.79 | 181451 | 6.13 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 208303 | 4.32 | 745893 | 5.29 | 474966 | 6.62 |
| 02 INTRA-LAB CH | 198412 | 4.32 | 718290 | 5.29 | 436387 | 6.62 |
| 03 | | | | | | |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E200178
 Lab File ID (Standard): V05240CC Date Analyzed: 05/24/09
 Instrument ID: 731 Time Analyzed: 0857

| | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 621100 | 7.76 | 446161 | 9.78 | 343118 | 11.01 |
| UPPER LIMIT | 1242200 | 8.26 | 892322 | 10.28 | 686236 | 11.51 |
| LOWER LIMIT | 310550 | 7.26 | 223081 | 9.28 | 171559 | 10.51 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 867090 | 7.76 | 619774 | 9.78 | 462869 | 11.01 |
| 02 INTRA-LAB CH | 825171 | 7.75 | 642704 | 9.78 | 525075 | 11.01 |
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IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E200178

Lab File ID (Standard): V05260CC

Date Analyzed: 05/26/09

Instrument ID: 731

Time Analyzed: 0907

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 118388 | 4.34 | 405290 | 5.31 | 259297 | 6.64 |
| UPPER LIMIT | 236776 | 4.84 | 810580 | 5.81 | 518594 | 7.14 |
| LOWER LIMIT | 59194 | 3.84 | 202645 | 4.81 | 129649 | 6.14 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B03-4 | 163675 | 4.35 | 540038 | 5.30 | 353271 | 6.63 |
| 02 BP-SO-B03-12 | 173445 | 4.35 | 604810 | 5.30 | 377463 | 6.63 |
| 03 SRM | 146561 | 4.33 | 479304 | 5.29 | 268909 | 6.62 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E200178
 Lab File ID (Standard): V05260CC Date Analyzed: 05/26/09
 Instrument ID: 731 Time Analyzed: 0907

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 484292 | 7.76 | 471718 | 9.78 | 489300 | 11.01 |
| UPPER LIMIT | 968584 | 8.26 | 943436 | 10.28 | 978600 | 11.51 |
| LOWER LIMIT | 242146 | 7.26 | 235859 | 9.28 | 244650 | 10.51 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B03-4 | 587107 | 7.75 | 564933 | 9.78 | 768007 | 11.02 |
| 02 BP-SO-B03-12 | 621620 | 7.75 | 576630 | 9.78 | 734571 | 11.02 |
| 03 SRM | 441606 | 7.76 | 652669 | 9.79 | 1059632* | 11.03 |
| 04 | | | | | | |
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IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

TOTAL Metals

Lot-Sample #...: C9E200178-001

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....: 11

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | ND | 0.019 | mg/kg | SW846 7471A | 05/26/09 | LDD991AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:20 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0061 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.10 B | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AQ |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.011 | |
| Arsenic | 2.6 | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AD |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.079 | |
| Beryllium | 0.36 B | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AE |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.018 | |
| Cadmium | 0.40 B | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AF |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.043 | |
| Chromium | 1580 J | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AG |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.038 | |
| Copper | 46.9 | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AH |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.041 | |
| Nickel | 10.5 | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AJ |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.032 | |
| Lead | 43.2 | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AK |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

TOTAL Metals

Lot-Sample #...: C9E200178-001

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Antimony | 0.54 B,J | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AL |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Selenium | ND | 2.4 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AM |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.19 | |
| Thallium | 0.10 B,J | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AN |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0095 | |
| Zinc | 140 J | 2.4 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AP |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.056 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

TOTAL Metals

Lot-Sample #...: C9E200178-002

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....: 9.8

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | ND | 0.018 | mg/kg | SW846 7471A | 05/26/09 | LDEA71AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:21 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0060 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.085 B | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AQ |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.012 | |
| Arsenic | 2.8 | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AD |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.082 | |
| Beryllium | 0.36 B | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AE |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.018 | |
| Cadmium | 0.39 B | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AF |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.045 | |
| Chromium | 1620 J | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AG |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.040 | |
| Copper | 40.0 | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AH |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.042 | |
| Nickel | 9.8 | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AJ |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.034 | |
| Lead | 26.0 | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AK |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.017 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

TOTAL Metals

Lot-Sample #...: C9E200178-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|------------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Antimony | 0.52 B,J | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AL |
| | | Dilution Factor: 4.5 | | Analysis Time..: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Selenium | ND | 2.5 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AM |
| | | Dilution Factor: 4.5 | | Analysis Time..: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.20 | |
| Thallium | 0.065 B,J | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AN |
| | | Dilution Factor: 4.5 | | Analysis Time..: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.010 | |
| Zinc | 108 J | 2.5 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AP |
| | | Dilution Factor: 4.5 | | Analysis Time..: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.058 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E200178-004

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....:

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.012 B | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDGGVIAQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:16 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0054 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.044 B | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0024 | |
| Arsenic | 4.3 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Beryllium | 0.29 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0037 | |
| Cadmium | 0.18 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0091 | |
| Chromium | 19.8 J | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0080 | |
| Copper | 8.5 | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0085 | |
| Nickel | 17.6 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0068 | |
| Lead | 8.4 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAQ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0034 | |

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Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E200178-004

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|------------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Antimony | 0.10 B,J | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAK |
| | | Dilution Factor: 1 | | Analysis Time..: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0033 | |
| Selenium | 0.088 B | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAL |
| | | Dilution Factor: 1 | | Analysis Time..: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.041 | |
| Thallium | 0.082 B,J | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAM |
| | | Dilution Factor: 1 | | Analysis Time..: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0020 | |
| Zinc | 28.8 J | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAN |
| | | Dilution Factor: 1 | | Analysis Time..: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.012 | |

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------|------------------------|-------|-------------------------|-------------------------------|-----------------------|
| MB Lot-Sample #: C9E260000-208 Prep Batch #...: 9146208 | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDPKH1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 14:44 | | Analyst ID.....: 403938 | | Instrument ID...: HGH |
| MB Lot-Sample #: C9E280000-215 Prep Batch #...: 9148215 | | | | | | |
| Antimony | 0.013 B | 0.17 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AJ |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AA |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AC |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AD |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | 0.070 B | 0.17 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AE |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | ND | 0.17 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AF |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AH |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AG |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.42 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AK |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time..: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| Silver | ND | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AN |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time...: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Thallium | 0.0074 B | 0.085 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AL |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time...: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Zinc | 0.024 B | 0.42 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDVAD1AM |
| | | Dilution Factor: 0.85 | | | | |
| | | Analysis Time...: 02:42 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9E260000-208 Prep Batch #... : 9146208 | | | | | |
| Mercury | 91 | (80 - 120) | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9E280000-215 Prep Batch #... : 9148215 | | | | | |
| Arsenic | 82 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AP |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 86 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AQ |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 92 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AR |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 103 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AT |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 91 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AU |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 95 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AV |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 99 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AW |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 92 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1AX |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 89 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1A0 |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------------|-------------------------|-------------------------------|--------------|
| Thallium | 96 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1A1 |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Zinc | 85 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1A2 |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 97 | (80 - 120) | SW846 6020 | 05/28-05/30/09 | LDVAD1A3 |
| | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9E260000-208 Prep Batch #... : 9146208 | | | | | | | |
| Mercury | 0.208 | 0.190 | mg/kg | 91 | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9E280000-215 Prep Batch #... : 9148215 | | | | | | | |
| Arsenic | 3.40 | 2.79 | mg/kg | 82 | SW846 6020 | 05/28-05/30/09 | LDVAD1AP |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 4.25 | 3.66 | mg/kg | 86 | SW846 6020 | 05/28-05/30/09 | LDVAD1AQ |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 4.25 | 3.91 | mg/kg | 92 | SW846 6020 | 05/28-05/30/09 | LDVAD1AR |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 17.0 | 17.6 | mg/kg | 103 | SW846 6020 | 05/28-05/30/09 | LDVAD1AT |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 21.2 | 19.3 | mg/kg | 91 | SW846 6020 | 05/28-05/30/09 | LDVAD1AU |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 42.5 | 40.5 | mg/kg | 95 | SW846 6020 | 05/28-05/30/09 | LDVAD1AV |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.70 | 1.69 | mg/kg | 99 | SW846 6020 | 05/28-05/30/09 | LDVAD1AW |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 42.5 | 39.2 | mg/kg | 92 | SW846 6020 | 05/28-05/30/09 | LDVAD1AX |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.850 | 0.758 | mg/kg | 89 | SW846 6020 | 05/28-05/30/09 | LDVAD1A0 |
| | | | | Dilution Factor: 0.85 | Analysis Time...: 02:46 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|-------------------|------------|-------------------------------|-----------------|
| Thallium | 4.25 | 4.06 | mg/kg | 96 | SW846 6020 | 05/28-05/30/09 | LDVAD1A1 |
| Dilution Factor: 0.85 Analysis Time...: 02:46 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 42.5 | 36.1 | mg/kg | 85 | SW846 6020 | 05/28-05/30/09 | LDVAD1A2 |
| Dilution Factor: 0.85 Analysis Time...: 02:46 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 4.25 | 4.14 | mg/kg | 97 | SW846 6020 | 05/28-05/30/09 | LDVAD1A3 |
| Dilution Factor: 0.85 Analysis Time...: 02:46 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9E200178-001 Prep Batch #...: 9148215 | | | | | | |
| % Moisture.....: 11 | | | | | | |
| Antimony | 66 N | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991CC |
| | 61 N | (75 - 125) | 8.6 (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CD |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Arsenic | 68 N | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991AV |
| | 69 N | (75 - 125) | 0.72 (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991AW |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Beryllium | 83 | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991AX |
| | 83 | (75 - 125) | 0.43 (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991A0 |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Cadmium | 91 | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991A1 |
| | 92 | (75 - 125) | 0.46 (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991A2 |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Chromium | NC | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991A3 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991A4 |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Copper | 28 N | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991A5 |
| | 51 N | (75 - 125) | 9.6 (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991A6 |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 05/28-05/30/09 | LDD991A9 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CA |
| Dilution Factor: 4.25 | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9148137 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

| | PERCENT | RECOVERY | RPD | | PREPARATION- | WORK | |
|-----------|----------|-------------------------|------|--------------------------|--------------|-------------------------|----------|
| PARAMETER | RECOVERY | LIMITS | RPD | LIMITS | METHOD | ANALYSIS DATE | ORDER # |
| Nickel | 80 | (75 - 125) | | | SW846 6020 | 05/28-05/30/09 | LDD991A7 |
| | 84 | (75 - 125) | 4.1 | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991A8 |
| | | Dilution Factor: 4.25 | | | | | |
| | | Analysis Time...: 02:59 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9148137 | | | | | |
| Selenium | 84 | (75 - 125) | | | SW846 6020 | 05/28-05/30/09 | LDD991CE |
| | 54 N,* | (75 - 125) | 43 | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CF |
| | | Dilution Factor: 4.25 | | | | | |
| | | Analysis Time...: 02:59 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9148137 | | | | | |
| Silver | 93 | (75 - 125) | | | SW846 6020 | 05/28-05/30/09 | LDD991CL |
| | 94 | (75 - 125) | 0.48 | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CM |
| | | Dilution Factor: 4.25 | | | | | |
| | | Analysis Time...: 02:59 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9148137 | | | | | |
| Thallium | 92 | (75 - 125) | | | SW846 6020 | 05/28-05/30/09 | LDD991CG |
| | 92 | (75 - 125) | 0.65 | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CH |
| | | Dilution Factor: 4.25 | | | | | |
| | | Analysis Time...: 02:59 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9148137 | | | | | |
| Zinc | 92 | (75 - 125) | | | SW846 6020 | 05/28-05/30/09 | LDD991CJ |
| | 57 N | (75 - 125) | 9.4 | (0-20) | SW846 6020 | 05/28-05/30/09 | LDD991CK |
| | | Dilution Factor: 4.25 | | | | | |
| | | Analysis Time...: 02:59 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9148137 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9E200178-001 Prep Batch #....: 9148215

% Moisture.....: 11

Antimony

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 0.54 | 47.7 | 32.1 N | mg/kg | 66 | | SW846 6020 | 05/28-05/30/09 | LDD991CC |
| 0.54 | 47.7 | 29.4 N | mg/kg | 61 | 8.6 | SW846 6020 | 05/28-05/30/09 | LDD991CD |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

Arsenic

| | | | | | | | | |
|--|------|--------|-------|----|------|------------|----------------|----------|
| 2.6 | 3.81 | 5.25 N | mg/kg | 68 | | SW846 6020 | 05/28-05/30/09 | LDD991AV |
| 2.6 | 3.81 | 5.29 N | mg/kg | 69 | 0.72 | SW846 6020 | 05/28-05/30/09 | LDD991AW |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

Beryllium

| | | | | | | | | |
|--|------|------|-------|----|------|------------|----------------|----------|
| 0.36 | 4.77 | 4.33 | mg/kg | 83 | | SW846 6020 | 05/28-05/30/09 | LDD991AX |
| 0.36 | 4.77 | 4.32 | mg/kg | 83 | 0.43 | SW846 6020 | 05/28-05/30/09 | LDD991A0 |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

Cadmium

| | | | | | | | | |
|--|------|------|-------|----|------|------------|----------------|----------|
| 0.40 | 4.77 | 4.75 | mg/kg | 91 | | SW846 6020 | 05/28-05/30/09 | LDD991A1 |
| 0.40 | 4.77 | 4.77 | mg/kg | 92 | 0.46 | SW846 6020 | 05/28-05/30/09 | LDD991A2 |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

Chromium

| | | | | | | | | |
|--|------|---------|-------|--|--|------------|----------------|----------|
| 1580 | 19.1 | 1180 NC | mg/kg | | | SW846 6020 | 05/28-05/30/09 | LDD991A3 |
| 1580 | 19.1 | 1470 NC | mg/kg | | | SW846 6020 | 05/28-05/30/09 | LDD991A4 |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

Copper

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 46.9 | 23.8 | 53.6 N | mg/kg | 28 | | SW846 6020 | 05/28-05/30/09 | LDD991A5 |
| 46.9 | 23.8 | 59.0 N | mg/kg | 51 | 9.6 | SW846 6020 | 05/28-05/30/09 | LDD991A6 |
| Dilution Factor: 4.25 | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------|-----------|---------------|----------|---------------|------|------------|----------------------------|--------------|
| Lead | | | | | | | | | |
| | 43.2 | 1.91 | 35.9 | NC mg/kg | | | SW846 6020 | 05/28-05/30/09 | LDD991A9 |
| | 43.2 | 1.91 | 34.3 | NC mg/kg | | | SW846 6020 | 05/28-05/30/09 | LDD991CA |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |
| Nickel | | | | | | | | | |
| | 10.5 | 47.7 | 48.6 | mg/kg | 80 | | SW846 6020 | 05/28-05/30/09 | LDD991A7 |
| | 10.5 | 47.7 | 50.6 | mg/kg | 84 | 4.1 | SW846 6020 | 05/28-05/30/09 | LDD991A8 |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |
| Selenium | | | | | | | | | |
| ND | 0.953 | 0.801 | mg/kg | 84 | | | SW846 6020 | 05/28-05/30/09 | LDD991CE |
| ND | 0.953 | 0.517 | mg/kg | 54 | 43 | | SW846 6020 | 05/28-05/30/09 | LDD991CF |
| Qualifiers: N,* | | | | | | | | | |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |
| Silver | | | | | | | | | |
| | 0.10 | 4.77 | 4.54 | mg/kg | 93 | | SW846 6020 | 05/28-05/30/09 | LDD991CL |
| | 0.10 | 4.77 | 4.56 | mg/kg | 94 | 0.48 | SW846 6020 | 05/28-05/30/09 | LDD991CM |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |
| Thallium | | | | | | | | | |
| | 0.10 | 4.77 | 4.47 | mg/kg | 92 | | SW846 6020 | 05/28-05/30/09 | LDD991CG |
| | 0.10 | 4.77 | 4.50 | mg/kg | 92 | 0.65 | SW846 6020 | 05/28-05/30/09 | LDD991CH |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |
| Zinc | | | | | | | | | |
| | 140 | 47.7 | 184 | mg/kg | 92 | | SW846 6020 | 05/28-05/30/09 | LDD991CJ |
| | 140 | 47.7 | 168 | N mg/kg | 57 | 9.4 | SW846 6020 | 05/28-05/30/09 | LDD991CK |
| Dilution Factor: 4.25 | | | | | | | | | |
| Analysis Time...: 02:59 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9148137 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

| | | | | | | |
|---------|----|------------|--------|-------------|----------|----------|
| Mercury | NC | (75 - 125) | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | NC | (75 - 125) | (0-20) | SW846 7471A | 05/26/09 | LDLQQ1CR |

Dilution Factor: 25

Analysis Time...: 15:28

Instrument ID...: HGHYDRA

Analyst ID.....: 403938

MS Run #.....: 9146128

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E200178

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | AMOUNT | AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-----|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|-----|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #...: 9146208

% Moisture.....: 25

Mercury

| | | | | | | | | |
|------|-------|------|----------|--|-------|-------|----------|----------|
| 10.0 | 0.112 | 15.7 | NC mg/kg | | SW846 | 7471A | 05/26/09 | LDLQQ1CQ |
| 10.0 | 0.112 | 14.9 | NC mg/kg | | SW846 | 7471A | 05/26/09 | LDLQQ1CR |

Dilution Factor: 25

Analysis Time...: 15:28

Instrument ID...: HGHYDRA

Analyst ID.....: 403938

MS Run #.....: 9146128

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E200178

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|-----------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-4 | C9E200178 001 | LDD991AT | 0.32 B | mg/kg | 0.096 | 0.56 | 1 | 5/26/2009 - 5/26/2009 19:08 | 9146135 |
| BP-SO-B03-12 | C9E200178 002 | LDEA71AT | ND | mg/kg | 0.095 | 0.55 | 1 | 5/26/2009 - 5/26/2009 19:08 | 9146135 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9E200178

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-4 | C9E200178 001 | LDD991AA | 89.2 | % | 0.0 | 1.0 | 1 | 5/22/2009 - 5/23/2009 07:35 | 9141418 |
| BP-SO-B03-12 | C9E200178 002 | LDEA71AA | 90.2 | % | 0.0 | 1.0 | 1 | 5/22/2009 - 5/23/2009 07:35 | 9141418 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9E200178

Matrix: SOLID

Date/Time Received: 5/19/2009 10:05:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9E260000135B | 135 MB | LDPFL1AA | ND | mg/kg | 0.50 | 5/26/2009 - 5/26/2009 18:49 | 9146135 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E200178

Matrix: SOLID

Date/Time Received: 5/20/2009 10:30:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LDDVX1A0 | 96.4 | % | 1.0 | 5/22/2009 - 5/23/2009 07:35 | 9141418 | 1.6 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9E260000
 Date/Time Received: 5/19/2009 10:05:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|--------------|--------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LDPFL1AC | 133 | 41 - 159 | 5/26/2009 - 5/26/2009 18:49 | 9146135 | |
| LAB MS/MSD | MS | LC7F51CQ | 74 N | 85 - 115 | 5/26/2009 - 5/26/2009 18:57 | 9146135 | 10 / 20 |
| LAB MS/MSD | MS | LDA951DP | 77 N | 85 - 115 | 5/26/2009 - 5/26/2009 19:04 | 9146135 | 4.1 / 20 |
| LAB MS/MSD | MSD | LC7F51CR | 66 N | 85 - 115 | 5/26/2009 - 5/26/2009 18:57 | 9146135 | 10 / 20 |
| LAB MS/MSD | MSD | LDA951DQ | 81 N | 85 - 115 | 5/26/2009 - 5/26/2009 19:08 | 9146135 | 4.1 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E200178

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-4 | C9E200178-001 | Soil |
| 2 | BP-SO-B03-12 | C9E200178-002 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| Reference | Cyanide | 74%/66%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method:

SW846 9012A

Client Name: Maryland Environmental Service

Lot Number:

C9E200178

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|-------------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B03-4 | C9E200178 001 | LDD991AT | L 0.32 F | mg/kg | 0.096 | 0.56 | 1 | 5/26/2009 - 5/26/2009 19:08 | 9146135 |
| BP-SO-B03-12 | C9E200178 002 | LDEA71AT | UL MD | mg/kg | 0.095 | 0.55 | 1 | 5/26/2009 - 5/26/2009 19:08 | 9146135 |

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E200178

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-4 | C9E200178-001 | Soil |
| 1MS | BP-SO-B03-4MS | C9E200178-001MS | Soil |
| 1MSD | BP-SO-B03-4MSD | C9E200178-001MSD | Soil |
| 2 | BP-SO-B03-12 | C9E200178-002 | Soil |
| 3 | SRM | C9E200178-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 1 | Antimony | 66%/61%/Ok | L/UL | All samples |
| | Arsenic | 68%/67%/Ok | L/UL | All samples |
| | Copper | 28%/51%/Ok | L/UL | All samples |
| | Selenium | Ok/56%/43 | L/UL | All samples |
| | Zinc | Ok/57%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

TOTAL Metals

Lot-Sample #...: C9E200178-001

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....: 11

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | ND | 0.019 | mg/kg | SW846 7471A | 05/26/09 | LDD991AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:20 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0061 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.10 <i>JD</i> | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AQ |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.011 | |
| Arsenic | 2.6 <i>L</i> | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AD |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.079 | |
| Beryllium | 0.36 <i>JD</i> | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AE |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.018 | |
| Cadmium | 0.40 <i>JD</i> | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AF |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.043 | |
| Chromium | 1580 <i>J</i> | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AG |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.038 | |
| Copper | 46.9 <i>L</i> | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AH |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.041 | |
| Nickel | 10.5 | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AJ |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.032 | |
| Lead | 43.2 | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AK |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |

(Continued on next page)

JD
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

TOTAL Metals

Lot-Sample #...: C9E200178-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.54 B J L | 0.95 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AL |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Selenium | ND U L | 2.4 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AM |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.19 | |
| Thallium | 0.10 B J J | 0.48 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AN |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0095 | |
| Zinc | 140 J L | 2.4 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDD991AP |
| | | Dilution Factor: 4.25 | | Analysis Time...: 02:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.056 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

2

Client Sample ID: BP-SO-B03-12

TOTAL Metals

Lot-Sample #...: C9E200178-002

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....: 9.8

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | ND | 0.018 | mg/kg | SW846 7471A | 05/26/09 | LDEA71AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:21 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0060 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.085 <i>PJ</i> | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AQ |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.012 | |
| Arsenic | 2.8 <i>L</i> | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AD |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.082 | |
| Beryllium | 0.36 <i>PJ</i> | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AE |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.018 | |
| Cadmium | 0.39 <i>PJ</i> | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AF |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.045 | |
| Chromium | 1620 <i>PJ</i> | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AG |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.040 | |
| Copper | 40.0 <i>L</i> | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AH |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.042 | |
| Nickel | 9.8 | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AJ |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.034 | |
| Lead | 26.0 | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AK |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.017 | |

(Continued on next page)

NW
8/3/09

Maryland Environmental Service

2

Client Sample ID: BP-SO-B03-12

TOTAL Metals

Lot-Sample #...: C9E200178-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.52 B <i>UL</i> | 1.0 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AL |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Selenium | ND <i>UL</i> | 2.5 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AM |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.20 | |
| Thallium | 0.065 B <i>J</i> | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AN |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.010 | |
| Zinc | 108 <i>J/L</i> | 2.5 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDEA71AP |
| | | Dilution Factor: 4.5 | | Analysis Time...: 03:07 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.058 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

3

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E200178-004

Matrix.....: SOLID

Date Sampled...: 05/19/09

Date Received...: 05/20/09

% Moisture.....:

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.012 <i>JS</i> | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDGGV1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:16 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0054 | |
| Prep Batch #...: 9148215 | | | | | | |
| Silver | 0.044 <i>JS</i> | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AP |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0024 | |
| Arsenic | 4.3 <i>L</i> | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AC |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.016 | |
| Beryllium | 0.29 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AD |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0037 | |
| Cadmium | 0.18 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AE |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0091 | |
| Chromium | 19.8 <i>JS</i> | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AF |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0080 | |
| Copper | 8.5 <i>L</i> | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AG |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0085 | |
| Nickel | 17.6 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AH |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0068 | |
| Lead | 8.4 | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGV1AJ |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0034 | |

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mw
8/31/09

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E200178-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.10 B A L | 0.20 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAK |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0033 | |
| Selenium | 0.088 B L | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAL |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.041 | |
| Thallium | 0.082 B J J | 0.10 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAM |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.0020 | |
| Zinc | 28.8 J L | 0.50 | mg/kg | SW846 6020 | 05/28-05/30/09 | LDGGVIAN |
| | | Dilution Factor: 1 | | Analysis Time...: 03:11 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9148137 | MDL.....: 0.012 | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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8/3/09

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E200178

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-4 | C9E200178-001 | Soil |
| 2 | BP-SO-B03-12 | C9E200178-002 | Soil |
| 3 | SRM | C9E200178-004 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID#3 is a performance testing sample. The reviewer included the actual results with the Form I in the report.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Semivolatiles

Lot-Sample #...: C9E200178-001 Work Order #...: LDD991AC Matrix.....: SOLID
 Date Sampled...: 05/19/09 14:10 Date Received...: 05/20/09 09:30 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9143020 Analysis Time...: 15:18
 Dilution Factor: 0.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 11 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 17 | 3.8 | ug/kg | 0.57 |
| 2-Methylnaphthalene | 27 | 3.8 | ug/kg | 0.74 |
| Naphthalene | 220 | 3.8 | ug/kg | 0.54 |
| Acenaphthylene | 3.8 | 3.8 | ug/kg | 0.75 |
| Acenaphthene | 14 | 3.8 | ug/kg | 0.60 |
| Fluorene | 5.8 | 3.8 | ug/kg | 0.56 |
| Phenanthrene | 33 | 3.8 | ug/kg | 0.45 |
| Anthracene | 5.6 J | 19 | ug/kg | 0.66 |
| Fluoranthene | 29 | 3.8 | ug/kg | 0.32 |
| Pyrene | 27 | 3.8 | ug/kg | 0.99 |
| Benzo (a) anthracene | 28 | 3.8 | ug/kg | 0.60 |
| Chrysene | 30 | 3.8 | ug/kg | 0.65 |
| Benzo (b) fluoranthene | 65 | 3.8 | ug/kg | 0.76 |
| Benzo (k) fluoranthene | ND | 3.8 | ug/kg | 0.78 |
| Benzo (a) pyrene | 47 | 3.8 | ug/kg | 1.0 |
| Indeno (1,2,3-cd) pyrene | 42 | 3.8 | ug/kg | 0.21 |
| Dibenzo (a,h) anthracene | 12 | 3.8 | ug/kg | 0.82 |
| Benzo (ghi) perylene | 47 | 3.8 | ug/kg | 0.27 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 95 | (27 - 110) |
| Terphenyl-d14 | 100 | (21 - 130) |
| 2-Fluorobiphenyl | 95 | (28 - 108) |
| 2-Fluorophenol | 69 | (28 - 107) |
| Phenol-d5 | 83 | (30 - 112) |
| 2,4,6-Tribromophenol | 57 | (21 - 116) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

luw
8/3/09
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Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Semivolatiles

Lot-Sample #...: C9E200178-002 Work Order #...: LDEA71AC Matrix.....: SOLID
 Date Sampled...: 05/19/09 15:20 Date Received...: 05/20/09 09:30 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9143020 Analysis Time...: 15:40
 Dilution Factor: 0.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 9.8 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 18 | 3.7 | ug/kg | 0.56 |
| 2-Methylnaphthalene | 38 | 3.7 | ug/kg | 0.73 |
| Naphthalene | 460 | 3.7 | ug/kg | 0.54 |
| Acenaphthylene | 7.8 | 3.7 | ug/kg | 0.74 |
| Acenaphthene | 7.2 | 3.7 | ug/kg | 0.59 |
| Fluorene | 11 | 3.7 | ug/kg | 0.56 |
| Phenanthrene | 51 | 3.7 | ug/kg | 0.44 |
| Anthracene | 12 J | 18 | ug/kg | 0.65 |
| Fluoranthene | 18 | 3.7 | ug/kg | 0.31 |
| Pyrene | 13 | 3.7 | ug/kg | 0.98 |
| Benzo (a) anthracene | 7.3 | 3.7 | ug/kg | 0.59 |
| Chrysene | 7.8 | 3.7 | ug/kg | 0.65 |
| Benzo (b) fluoranthene | 13 | 3.7 | ug/kg | 0.75 |
| Benzo (k) fluoranthene | ND | 3.7 | ug/kg | 0.77 |
| Benzo (a) pyrene | 8.4 | 3.7 | ug/kg | 1.0 |
| Indeno (1,2,3-cd) pyrene | 7.3 | 3.7 | ug/kg | 0.20 |
| Dibenzo (a,h) anthracene | 2.0 J | 3.7 | ug/kg | 0.81 |
| Benzo (ghi) perylene | 8.8 | 3.7 | ug/kg | 0.27 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 84 | (27 - 110) |
| Terphenyl-d14 | 95 | (21 - 130) |
| 2-Fluorobiphenyl | 87 | (28 - 108) |
| 2-Fluorophenol | 68 | (28 - 107) |
| Phenol-d5 | 76 | (30 - 112) |
| 2,4,6-Tribromophenol | 60 | (21 - 116) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

3

Client Sample ID: SRM

GC/MS Semivolatiles

Lot-Sample #...: C9E200178-004 Work Order #...: LDGGV1AA Matrix.....: SOLID
 Date Sampled...: 05/19/09 Date Received...: 05/20/09 09:30 MS Run #.....: 9143018
 Prep Date.....: 05/23/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9143020 Analysis Time...: 19:41
 Dilution Factor: 15 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 180 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 230 | 100 | ug/kg | 20 |
| Naphthalene | 390 | 100 | ug/kg | 15 |
| Acenaphthylene | 770 | 100 | ug/kg | 20 |
| Acenaphthene | 210 | 100 | ug/kg | 16 |
| Fluorene | 250 | 100 | ug/kg | 15 |
| Phenanthrene | 3100 | 100 | ug/kg | 12 |
| Anthracene | 950 | 500 | ug/kg | 18 |
| Fluoranthene | 6000 | 100 | ug/kg | 8.4 |
| Pyrene | 4100 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 2700 | 100 | ug/kg | 16 |
| Chrysene | 3700 | 100 | ug/kg | 17 |
| Benzo (b) fluoranthene | 2700 | 100 | ug/kg | 20 |
| Benzo (k) fluoranthene | 1200 | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 2100 | 100 | ug/kg | 28 |
| Indeno (1,2,3-cd) pyrene | 1500 | 100 | ug/kg | 5.5 |
| Dibenzo (a,h) anthracene | 540 | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | 1700 | 100 | ug/kg | 7.4 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 61 | (27 - 110) |
| Terphenyl-d14 | 55 | (21 - 130) |
| 2-Fluorobiphenyl | 67 | (28 - 108) |
| 2-Fluorophenol | 56 | (28 - 107) |
| Phenol-d5 | 57 | (30 - 112) |
| 2,4,6-Tribromophenol | 68 | (21 - 116) |

NW
8/3/09
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SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E200178

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|--------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 392.10 | ug/Kg | 23.76 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 3061.70 | ug/Kg | 58.10 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 950.28 | ug/Kg | 53.69 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 5953.10 | ug/Kg | 66.74 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 4100.80 | ug/Kg | 42.28 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 3689.70 | ug/Kg | 78.17 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 14202.00 | ug/Kg | 292.22 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2747.30 | ug/Kg | 70.99 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 1194.70 | ug/Kg | 51.94 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 2130.10 | ug/Kg | 49.54 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 1658.90 | ug/Kg | 58.41 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 1504.80 | ug/Kg | 54.13 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

HW
8/3/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E200178

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B03-4 | C9E200178-001 | Soil |
| 2 | BP-SO-B03-12 | C9E200178-002 | Soil |
| 3 | TRIP BLANK | C9E200178-003 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/22/09 | Acrolein | 0.022 RRF | L/R | All samples |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|--------------|-----------|-----------|-------------------------------|
| 05/24/09 | Chloroethane | 32.6% | None | All ND |
| | Acrolein | 0.024 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|--------------------|----------------|-----------------------|-----------|------------------|
| MBLK | Methylene chloride | 1.3 | 13 | B | 1, 2 |

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E200178-001 | Work Order #....: LDD991AU | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 | Date Received...: 05/20/09 | MS Run #.....: 9144017 |
| Prep Date.....: 05/24/09 | Analysis Date...: 05/24/09 | |
| Prep Batch #....: 9144028 | Analysis Time...: 12:38 | |
| Dilution Factor: 0.84 | Initial Wgt/Vol: 5.93 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 11 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND <i>R</i> | 94 | ug/kg | 6.6 |
| Acrylonitrile | ND | 94 | ug/kg | 9.8 |
| Benzene | 41 | 4.7 | ug/kg | 0.64 |
| Bromodichloromethane | ND | 4.7 | ug/kg | 0.53 |
| Bromoform | ND | 4.7 | ug/kg | 0.42 |
| Bromomethane | ND | 4.7 | ug/kg | 0.70 |
| 2-Butanone (MEK) | ND | 4.7 | ug/kg | 0.83 |
| Carbon tetrachloride | ND | 4.7 | ug/kg | 0.42 |
| Chloroethane | ND | 4.7 | ug/kg | 1.5 |
| 2-Chloroethyl vinyl ether | ND | 9.4 | ug/kg | 0.73 |
| Chloroform | ND | 4.7 | ug/kg | 0.55 |
| Chloromethane | ND | 4.7 | ug/kg | 0.80 |
| Dibromochloromethane | ND | 4.7 | ug/kg | 0.67 |
| 1,2-Dichlorobenzene | ND | 4.7 | ug/kg | 0.75 |
| 1,3-Dichlorobenzene | ND | 4.7 | ug/kg | 0.62 |
| 1,4-Dichlorobenzene | ND | 4.7 | ug/kg | 0.60 |
| trans-1,2-Dichloroethene | ND | 4.7 | ug/kg | 0.56 |
| Dichlorodifluoromethane | ND | 4.7 | ug/kg | 0.63 |
| 1,1-Dichloroethane | ND | 4.7 | ug/kg | 0.54 |
| 1,2-Dichloroethane | ND | 4.7 | ug/kg | 0.58 |
| 1,1-Dichloroethene | ND | 4.7 | ug/kg | 0.80 |
| 1,2-Dichloropropane | ND | 4.7 | ug/kg | 0.51 |
| cis-1,3-Dichloropropene | ND | 4.7 | ug/kg | 0.64 |
| trans-1,3-Dichloropropene | ND | 4.7 | ug/kg | 0.56 |
| Ethylbenzene | ND | 4.7 | ug/kg | 0.61 |
| Methylene chloride | 1.6 <i>J.B.</i> | 4.7 | ug/kg | 0.63 |
| 1,1,2,2-Tetrachloroethane | ND | 4.7 | ug/kg | 0.68 |
| Tetrachloroethene | ND | 4.7 | ug/kg | 0.64 |
| Toluene | 8.8 | 4.7 | ug/kg | 0.69 |
| 1,1,1-Trichloroethane | ND | 4.7 | ug/kg | 0.46 |
| 1,1,2-Trichloroethane | ND | 4.7 | ug/kg | 0.78 |
| Trichloroethene | ND | 4.7 | ug/kg | 0.62 |
| Trichlorofluoromethane | ND | 4.7 | ug/kg | 0.87 |
| Vinyl chloride | ND | 4.7 | ug/kg | 0.44 |

(Continued on next page)

hw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-4

GC/MS Volatiles

Lot-Sample #....: C9E200178-001 Work Order #....: LDD991AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 84 | (52 - 124) |
| Toluene-d8 | 101 | (72 - 127) |
| 4-Bromofluorobenzene | 92 | (63 - 120) |
| Dibromofluoromethane | 77 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NW
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E200178-002 | Work Order #....: LDEA71AU | Matrix.....: SOLID |
| Date Sampled....: 05/19/09 | Date Received...: 05/20/09 | MS Run #.....: 9144017 |
| Prep Date.....: 05/24/09 | Analysis Date...: 05/24/09 | |
| Prep Batch #....: 9144028 | Analysis Time...: 13:02 | |
| Dilution Factor: 0.88 | Initial Wgt/Vol: 5.65 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 9.8 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND R | 98 | ug/kg | 6.9 |
| Acrylonitrile | ND | 98 | ug/kg | 10 |
| Benzene | 72 | 4.9 | ug/kg | 0.66 |
| Bromodichloromethane | ND | 4.9 | ug/kg | 0.55 |
| Bromoform | ND | 4.9 | ug/kg | 0.43 |
| Bromomethane | ND | 4.9 | ug/kg | 0.72 |
| 2-Butanone (MEK) | ND | 4.9 | ug/kg | 0.86 |
| Carbon tetrachloride | ND | 4.9 | ug/kg | 0.44 |
| Chloroethane | ND | 4.9 | ug/kg | 1.5 |
| 2-Chloroethyl vinyl ether | ND | 9.8 | ug/kg | 0.75 |
| Chloroform | ND | 4.9 | ug/kg | 0.57 |
| Chloromethane | ND | 4.9 | ug/kg | 0.83 |
| Dibromochloromethane | ND | 4.9 | ug/kg | 0.69 |
| 1,2-Dichlorobenzene | ND | 4.9 | ug/kg | 0.78 |
| 1,3-Dichlorobenzene | ND | 4.9 | ug/kg | 0.64 |
| 1,4-Dichlorobenzene | ND | 4.9 | ug/kg | 0.62 |
| trans-1,2-Dichloroethene | ND | 4.9 | ug/kg | 0.58 |
| Dichlorodifluoromethane | ND | 4.9 | ug/kg | 0.65 |
| 1,1-Dichloroethane | ND | 4.9 | ug/kg | 0.56 |
| 1,2-Dichloroethane | ND | 4.9 | ug/kg | 0.60 |
| 1,1-Dichloroethene | ND | 4.9 | ug/kg | 0.83 |
| 1,2-Dichloropropane | ND | 4.9 | ug/kg | 0.53 |
| cis-1,3-Dichloropropene | ND | 4.9 | ug/kg | 0.66 |
| trans-1,3-Dichloropropene | ND | 4.9 | ug/kg | 0.58 |
| Ethylbenzene | ND | 4.9 | ug/kg | 0.63 |
| Methylene chloride | 1.8 J B | 4.9 | ug/kg | 0.66 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 | ug/kg | 0.70 |
| Tetrachloroethene | ND | 4.9 | ug/kg | 0.66 |
| Toluene | 23 | 4.9 | ug/kg | 0.71 |
| 1,1,1-Trichloroethane | ND | 4.9 | ug/kg | 0.47 |
| 1,1,2-Trichloroethane | ND | 4.9 | ug/kg | 0.81 |
| Trichloroethene | ND | 4.9 | ug/kg | 0.64 |
| Trichlorofluoromethane | ND | 4.9 | ug/kg | 0.90 |
| Vinyl chloride | ND | 4.9 | ug/kg | 0.46 |

(Continued on next page)

nw
8/3/09

Maryland Environmental Service

Client Sample ID: BP-SO-B03-12

GC/MS Volatiles

Lot-Sample #...: C9E200178-002 Work Order #...: LDEA71AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 89 | (63 - 120) |
| Dibromofluoromethane | 82 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

hw
8/31/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E200178-003 Work Order #....: LDECC1AA Matrix.....: WATER
 Date Sampled....: 05/19/09 Date Received...: 05/20/09 MS Run #.....: 9146126
 Prep Date.....: 05/24/09 Analysis Date...: 05/24/09
 Prep Batch #....: 9146204 Analysis Time...: 16:06
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

lws
8/3/09

3

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9E200178-003 Work Order #...: LDECC1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (62 - 123) |
| Toluene-d8 | 107 | (80 - 120) |
| 4-Bromofluorobenzene | 99 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

NW
8/3/09

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9E240103

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 10, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pittsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9E240103

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on May 23, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9E240103

Metals:

The serial dilution percent difference for BP-SO-B04-24 was outside the control limit for beryllium and antimony.

Several of the samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony. The matrix spike recovered outside the control limit for cadmium, chromium, copper, nickel and selenium. The RPD recovered outside the control limit for cadmium, chromium, copper, and selenium.

For the matrix spike and matrix spike duplicate, arsenic, lead, and zinc recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

Sample BP-SO-B02-20 was analyzed at a dilution for total cyanide.

The matrix spike duplicate recovered outside of the control limits for total cyanide. The RPD between the matrix spike and matrix spike duplicate for sample was outside the control limit.

METHODS SUMMARY

C9E240103

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9E240103

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LDNWT | 001 | BP-SO-B04-24 | 05/22/09 | 08:20 |
| LDNWV | 002 | BP-SO-B02-08 | 05/22/09 | 12:45 |
| LDNWW | 003 | BP-SO-B02-14 | 05/22/09 | 13:45 |
| LDNWX | 004 | BP-SO-B02-20 | 05/22/09 | 14:10 |
| LDPAM | 005 | TRIP BLANK | 05/22/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COC #04

[illegible]

Cooler Receipt Form

TestAmerica Pittsburgh

Client: MES Project: _____ Quote: 82013
 Cooler Rec'd & Opened for Temp. Check on: 5 23 9
 Coolers Opened and Unpacked on: 5 24 9 By: Jo
 (Signature)
 TestAmerica Pittsburgh Lot Number: C9E240103

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ If YES, how many and where? Quantity <u> </u> Location <u> </u> Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ If YES, what type? <u>BUBBLE BAGS</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____
 Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid

Hydrochloric Acid _____

Sulfuric Acid

Sodium Hydroxide

FedEX *US Airbill*
Express

8694 4003 0285

0200

Form
ID No.

FedEx Retrieval Copy

1 From
Date 5/22/04 Sender's FedEx Account Number 0212-0722-5
Sender's Name Joseph Sawicki Phone 443 534-5869
Company EA Engineering
Address 15 Loveton Circle
City Sparks State MD ZIP 21152

2 Your Internal Billing Reference
3 To
Recipient's Name Sample Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive
Address RIOC Park
City Pittsburgh State PA ZIP 15238

4a Express Package Service

☒ **1 FedEx Priority Overnight** Next business morning ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **5 FedEx Standard Overnight** Next business afternoon.* Saturday Delivery NOT available.
☐ **6 FedEx First Overnight** Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
☐ **3 FedEx 2Day** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **20 FedEx Express Saver** Third business day.* Saturday Delivery NOT available.
* FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service

☐ **7 FedEx 1Day Freight*** Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **8 FedEx 2Day Freight** Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **83 FedEx 3Day Freight** Third business day.** Saturday Delivery NOT available.
* Call for Confirmation. ** To most locations.

5 Packaging

☐ **6 FedEx Envelope*** ☐ **2 FedEx Pak*** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. ☐ **3 FedEx Box** ☐ **4 FedEx Tube** ☒ **1 Other**
* Declared value limit \$500.

6 Special Handling

☒ **3 SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight.
☐ **1 HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.
☐ **31 HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Include FedEx address in Section 3.

Does this shipment contain dangerous goods?

☒ **1 No** ☐ **4 Yes** As per attached Shipper's Declaration. ☐ **6 Dry Ice** Dry Ice, 9, UN 1845 x kg. ☐ **3 Cargo Aircraft Only**
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to:

☒ **1 Sender** Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐
☐ **2 Recipient** ☐ **3 Third Party** ☐ **4 Credit Card** ☐ **5 Cash/Check**

Total Packages

Total Weight

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

☐ **No Signature Required** Package may be left without obtaining a signature for delivery.
☐ **10 Direct Signature** Someone at recipient's address may sign for delivery. Fee applies.
☐ **34 Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

Rev. Date 10/00-Part #158281-01/04-2004 FedEx-PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339



8694 4003 0285

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-001 | Work Order #....: LDNWT1AV | Matrix.....: SOLID |
| Date Sampled...: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 14:16 | |
| Dilution Factor: 9.16 | Initial Wgt/Vol: 5.46 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 25 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|------------|
| Acrolein | ND | 61000 | ug/kg | 9600 |
| Acrylonitrile | ND | 61000 | ug/kg | 4900 |
| Benzene | 38000 | 3000 | ug/kg | 600 |
| Bromodichloromethane | ND | 3000 | ug/kg | 570 |
| Bromoform | ND | 3000 | ug/kg | 650 |
| Bromomethane | ND | 3000 | ug/kg | 960 |
| 2-Butanone (MEK) | ND | 3000 | ug/kg | 660 |
| Carbon tetrachloride | ND | 3000 | ug/kg | 660 |
| Chloroethane | ND | 3000 | ug/kg | 450 |
| 2-Chloroethyl vinyl ether | ND | 6100 | ug/kg | 670 |
| Chloroform | ND | 3000 | ug/kg | 610 |
| Chloromethane | ND | 3000 | ug/kg | 560 |
| Dibromochloromethane | ND | 3000 | ug/kg | 390 |
| 1,2-Dichlorobenzene | ND | 3000 | ug/kg | 410 |
| 1,3-Dichlorobenzene | ND | 3000 | ug/kg | 310 |
| 1,4-Dichlorobenzene | ND | 3000 | ug/kg | 320 |
| trans-1,2-Dichloroethene | ND | 3000 | ug/kg | 460 |
| Dichlorodifluoromethane | ND | 3000 | ug/kg | 390 |
| 1,1-Dichloroethane | ND | 3000 | ug/kg | 620 |
| 1,2-Dichloroethane | ND | 3000 | ug/kg | 580 |
| 1,1-Dichloroethene | ND | 3000 | ug/kg | 650 |
| 1,2-Dichloropropane | ND | 3000 | ug/kg | 780 |
| cis-1,3-Dichloropropene | ND | 3000 | ug/kg | 440 |
| trans-1,3-Dichloropropene | ND | 3000 | ug/kg | 350 |
| Ethylbenzene | ND | 3000 | ug/kg | 380 |
| Methylene chloride | ND | 3000 | ug/kg | 660 |
| 1,1,2,2-Tetrachloroethane | ND | 3000 | ug/kg | 570 |
| Tetrachloroethene | ND | 3000 | ug/kg | 500 |
| Toluene | 2300 J | 3000 | ug/kg | 510 |
| 1,1,1-Trichloroethane | ND | 3000 | ug/kg | 630 |
| 1,1,2-Trichloroethane | ND | 3000 | ug/kg | 710 |
| Trichloroethene | ND | 3000 | ug/kg | 490 |
| Trichlorofluoromethane | ND | 3000 | ug/kg | 680 |
| Vinyl chloride | ND | 3000 | ug/kg | 780 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Volatiles

Lot-Sample #...: C9E240103-001 Work Order #...: LDNWT1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9E240103-002 | Work Order #...: LDNWV1AV | Matrix.....: SOLID |
| Date Sampled...: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #...: 9147429 | Analysis Time...: 15:49 | |
| Dilution Factor: 75.05 | Initial Wgt/Vol: 5.33 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 11 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|-------------|
| Acrolein | ND | 420000 | ug/kg | 67000 |
| Acrylonitrile | ND | 420000 | ug/kg | 34000 |
| Benzene | 360000 | 21000 | ug/kg | 4200 |
| Bromodichloromethane | ND | 21000 | ug/kg | 3900 |
| Bromoform | ND | 21000 | ug/kg | 4500 |
| Bromomethane | ND | 21000 | ug/kg | 6600 |
| 2-Butanone (MEK) | ND | 21000 | ug/kg | 4600 |
| Carbon tetrachloride | ND | 21000 | ug/kg | 4600 |
| Chloroethane | ND | 21000 | ug/kg | 3100 |
| 2-Chloroethyl vinyl ether | ND | 42000 | ug/kg | 4700 |
| Chloroform | ND | 21000 | ug/kg | 4200 |
| Chloromethane | ND | 21000 | ug/kg | 3900 |
| Dibromochloromethane | ND | 21000 | ug/kg | 2700 |
| 1,2-Dichlorobenzene | ND | 21000 | ug/kg | 2900 |
| 1,3-Dichlorobenzene | ND | 21000 | ug/kg | 2100 |
| 1,4-Dichlorobenzene | ND | 21000 | ug/kg | 2200 |
| trans-1,2-Dichloroethene | ND | 21000 | ug/kg | 3200 |
| Dichlorodifluoromethane | ND | 21000 | ug/kg | 2700 |
| 1,1-Dichloroethane | ND | 21000 | ug/kg | 4300 |
| 1,2-Dichloroethane | ND | 21000 | ug/kg | 4000 |
| 1,1-Dichloroethene | ND | 21000 | ug/kg | 4500 |
| 1,2-Dichloropropane | ND | 21000 | ug/kg | 5400 |
| cis-1,3-Dichloropropene | ND | 21000 | ug/kg | 3100 |
| trans-1,3-Dichloropropene | ND | 21000 | ug/kg | 2500 |
| Ethylbenzene | 14000 J | 21000 | ug/kg | 2600 |
| Methylene chloride | ND | 21000 | ug/kg | 4600 |
| 1,1,2,2-Tetrachloroethane | ND | 21000 | ug/kg | 3900 |
| Tetrachloroethene | ND | 21000 | ug/kg | 3500 |
| Toluene | 140000 | 21000 | ug/kg | 3600 |
| 1,1,1-Trichloroethane | ND | 21000 | ug/kg | 4300 |
| 1,1,2-Trichloroethane | ND | 21000 | ug/kg | 4900 |
| Trichloroethene | ND | 21000 | ug/kg | 3400 |
| Trichlorofluoromethane | ND | 21000 | ug/kg | 4700 |
| Vinyl chloride | ND | 21000 | ug/kg | 5400 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Volatiles

Lot-Sample #...: C9E240103-002 Work Order #...: LDNWV1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 98 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 101 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-003 | Work Order #....: LDNWW1AV | Matrix.....: SOLID |
| Date Sampled...: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 15:02 | |
| Dilution Factor: 29.1 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 22 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|-------------|
| Acrolein | ND | 190000 | ug/kg | 30000 |
| Acrylonitrile | ND | 190000 | ug/kg | 15000 |
| Benzene | 150000 | 9300 | ug/kg | 1800 |
| Bromodichloromethane | ND | 9300 | ug/kg | 1700 |
| Bromoform | ND | 9300 | ug/kg | 2000 |
| Bromomethane | ND | 9300 | ug/kg | 2900 |
| 2-Butanone (MEK) | ND | 9300 | ug/kg | 2000 |
| Carbon tetrachloride | ND | 9300 | ug/kg | 2000 |
| Chloroethane | ND | 9300 | ug/kg | 1400 |
| 2-Chloroethyl vinyl ether | ND | 19000 | ug/kg | 2100 |
| Chloroform | ND | 9300 | ug/kg | 1900 |
| Chloromethane | ND | 9300 | ug/kg | 1700 |
| Dibromochloromethane | ND | 9300 | ug/kg | 1200 |
| 1,2-Dichlorobenzene | ND | 9300 | ug/kg | 1300 |
| 1,3-Dichlorobenzene | ND | 9300 | ug/kg | 940 |
| 1,4-Dichlorobenzene | ND | 9300 | ug/kg | 980 |
| trans-1,2-Dichloroethene | ND | 9300 | ug/kg | 1400 |
| Dichlorodifluoromethane | ND | 9300 | ug/kg | 1200 |
| 1,1-Dichloroethane | ND | 9300 | ug/kg | 1900 |
| 1,2-Dichloroethane | ND | 9300 | ug/kg | 1800 |
| 1,1-Dichloroethene | ND | 9300 | ug/kg | 2000 |
| 1,2-Dichloropropane | ND | 9300 | ug/kg | 2400 |
| cis-1,3-Dichloropropene | ND | 9300 | ug/kg | 1400 |
| trans-1,3-Dichloropropene | ND | 9300 | ug/kg | 1100 |
| Ethylbenzene | ND | 9300 | ug/kg | 1200 |
| Methylene chloride | ND | 9300 | ug/kg | 2000 |
| 1,1,2,2-Tetrachloroethane | ND | 9300 | ug/kg | 1700 |
| Tetrachloroethene | ND | 9300 | ug/kg | 1500 |
| Toluene | 43000 | 9300 | ug/kg | 1600 |
| 1,1,1-Trichloroethane | ND | 9300 | ug/kg | 1900 |
| 1,1,2-Trichloroethane | ND | 9300 | ug/kg | 2200 |
| Trichloroethene | ND | 9300 | ug/kg | 1500 |
| Trichlorofluoromethane | ND | 9300 | ug/kg | 2100 |
| Vinyl chloride | ND | 9300 | ug/kg | 2400 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Volatiles

Lot-Sample #...: C9E240103-003 Work Order #...: LDNWW1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 96 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-004 | Work Order #....: LDNWX1AV | Matrix.....: SOLID |
| Date Sampled...: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 15:25 | |
| Dilution Factor: 47.4 | Initial Wgt/Vol: 5.27 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 33 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|-------------|
| Acrolein | ND | 350000 | ug/kg | 56000 |
| Acrylonitrile | ND | 350000 | ug/kg | 29000 |
| Benzene | 360000 | 18000 | ug/kg | 3500 |
| Bromodichloromethane | ND | 18000 | ug/kg | 3300 |
| Bromoform | ND | 18000 | ug/kg | 3800 |
| Bromomethane | ND | 18000 | ug/kg | 5600 |
| 2-Butanone (MEK) | ND | 18000 | ug/kg | 3800 |
| Carbon tetrachloride | ND | 18000 | ug/kg | 3800 |
| Chloroethane | ND | 18000 | ug/kg | 2700 |
| 2-Chloroethyl vinyl ether | ND | 35000 | ug/kg | 3900 |
| Chloroform | ND | 18000 | ug/kg | 3600 |
| Chloromethane | ND | 18000 | ug/kg | 3300 |
| Dibromochloromethane | ND | 18000 | ug/kg | 2300 |
| 1,2-Dichlorobenzene | ND | 18000 | ug/kg | 2400 |
| 1,3-Dichlorobenzene | ND | 18000 | ug/kg | 1800 |
| 1,4-Dichlorobenzene | ND | 18000 | ug/kg | 1900 |
| trans-1,2-Dichloroethene | ND | 18000 | ug/kg | 2700 |
| Dichlorodifluoromethane | ND | 18000 | ug/kg | 2300 |
| 1,1-Dichloroethane | ND | 18000 | ug/kg | 3600 |
| 1,2-Dichloroethane | ND | 18000 | ug/kg | 3400 |
| 1,1-Dichloroethene | ND | 18000 | ug/kg | 3800 |
| 1,2-Dichloropropane | ND | 18000 | ug/kg | 4500 |
| cis-1,3-Dichloropropene | ND | 18000 | ug/kg | 2600 |
| trans-1,3-Dichloropropene | ND | 18000 | ug/kg | 2100 |
| Ethylbenzene | ND | 18000 | ug/kg | 2200 |
| Methylene chloride | ND | 18000 | ug/kg | 3900 |
| 1,1,2,2-Tetrachloroethane | ND | 18000 | ug/kg | 3300 |
| Tetrachloroethene | ND | 18000 | ug/kg | 2900 |
| Toluene | 58000 | 18000 | ug/kg | 3000 |
| 1,1,1-Trichloroethane | ND | 18000 | ug/kg | 3700 |
| 1,1,2-Trichloroethane | ND | 18000 | ug/kg | 4100 |
| Trichloroethene | ND | 18000 | ug/kg | 2800 |
| Trichlorofluoromethane | ND | 18000 | ug/kg | 4000 |
| Vinyl chloride | ND | 18000 | ug/kg | 4600 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Volatiles

Lot-Sample #...: C9E240103-004 Work Order #...: LDNWX1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-005 | Work Order #....: LDPAM1AA | Matrix.....: WATER |
| Date Sampled....: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9148346 |
| Prep Date.....: 05/28/09 | Analysis Date...: 05/28/09 | |
| Prep Batch #....: 9148566 | Analysis Time...: 15:03 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9E240103-005 Work Order #...: LDPAM1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 107 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 101 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E240103

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 87 | 99 | 93 | 87 | 00 |
| 02 | BP-SO-B04-24 | 97 | 103 | 100 | 98 | 00 |
| 03 | BP-SO-B02-08 | 98 | 102 | 101 | 100 | 00 |
| 04 | BP-SO-B02-14 | 96 | 102 | 100 | 100 | 00 |
| 05 | BP-SO-B02-20 | 97 | 102 | 100 | 100 | 00 |
| 06 | METHOD BLK. LDTGG1AA | 89 | 102 | 95 | 93 | 00 |
| 07 | LCS LDTGG1AC | 92 | 103 | 100 | 95 | 00 |
| 08 | LAB MS/MSD D | 86 | 101 | 95 | 92 | 00 |
| 09 | LCSD LDTGG1AD | 92 | 103 | 100 | 94 | 00 |
| 10 | LAB MS/MSD S | 88 | 101 | 98 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E240103

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 98 | 95 | 98 | 97 | 00 |
| 02 | TRIP BLANK | 107 | 99 | 101 | 100 | 00 |
| 03 | METHOD BLK. LDXQ41AA | 106 | 95 | 97 | 99 | 00 |
| 04 | LCS LDXQ41AC | 99 | 96 | 92 | 91 | 00 |
| 05 | LAB MS/MSD D | 104 | 101 | 96 | 95 | 00 |
| 06 | LAB MS/MSD S | 107 | 105 | 101 | 99 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E270000

WO #: LDTGG1AC

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1960 | 98 | 59 - 129 | |
| Trichloroethene | 2000 | 1980 | 99 | 76 - 119 | |
| Benzene | 2000 | 2020 | 101 | 77 - 120 | |
| Toluene | 2000 | 2130 | 106 | 78 - 124 | |
| Chlorobenzene | 2000 | 2130 | 107 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E270000

WO #: LDTGG1AD

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1880 | 94 | 59 - 129 | |
| Trichloroethene | 2000 | 1900 | 95 | 76 - 119 | |
| Benzene | 2000 | 1900 | 95 | 77 - 120 | |
| Toluene | 2000 | 2040 | 102 | 78 - 124 | |
| Chlorobenzene | 2000 | 2040 | 102 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E280000

WO #: LDXQ41AC

BATCH: 9148566

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 40.0 | 32.4 | 81 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.9 | 95 | 80 - 120 | |
| Toluene | 40.0 | 40.1 | 100 | 80 - 124 | |
| Chlorobenzene | 40.0 | 39.3 | 98 | 83 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1C5

BATCH: 9147429

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,1-Dichloroethene | 2450000 | ND | 2400000 | 98 | 59 - 129 | |
| Trichloroethene | 2450000 | ND | 2420000 | 99 | 76 - 119 | |
| Benzene | 2450000 | 4300000 | 6760000 | 100 | 77 - 120 | |
| Toluene | 2450000 | 820000 | 3410000 | 105 | 78 - 124 | |
| Chlorobenzene | 2450000 | ND | 2600000 | 106 | 79 - 120 | |

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ___0___ out of ___0___ outside limits

Spike Recovery: ___0___ out of ___5___ outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E220334

WO #: LDLQQ1C6

BATCH: 9147429

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|--|------|
| | ADDED (ug/kg) | CONCENT. (ug/kg) | % REC | % RPD | RPD | REC | | |
| 1,1-Dichloroethene | 2450000 | 2260000 | 93 | 5.7 | 25 | 59 - 129 | | |
| Trichloroethene | 2450000 | 2360000 | 96 | 2.5 | 21 | 76 - 119 | | |
| Benzene | 2450000 | 6720000 | 98 | 0.67 | 20 | 77 - 120 | | |
| Toluene | 2450000 | 3400000 | 105 | 0.27 | 21 | 78 - 124 | | |
| Chlorobenzene | 2450000 | 2540000 | 104 | 2.5 | 20 | 79 - 120 | | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160205

WO #: LC76H1AK

BATCH: 9148566

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,1-Dichloroethene | 40.0 | ND | 34.5 | 86 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 40.0 | 100 | 80 - 120 | |
| Benzene | 40.0 | ND | 39.7 | 99 | 80 - 120 | |
| Toluene | 40.0 | ND | 41.8 | 104 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 41.0 | 103 | 83 - 120 | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E160205

WO #: LC76H1AL

BATCH: 9148566

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD | REC | |
| 1,1-Dichloroethene | 40.0 | 33.2 | 83 | 4.0 | 20 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 4.3 | 20 | 80 - 120 | |
| Benzene | 40.0 | 38.3 | 96 | 3.5 | 20 | 80 - 120 | |
| Toluene | 40.0 | 40.3 | 101 | 3.6 | 20 | 80 - 124 | |
| Chlorobenzene | 40.0 | 39.4 | 98 | 4.1 | 20 | 83 - 120 | |

NOTES(S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

LDTGG1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4052701.D

Lot Number: C9E240103

Date Analyzed: 05/27/09

Time Analyzed: 08:20

Matrix: SOLID

Date Extracted: 05/27/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LDLQQ1C1 | 4052703.D | 05/27/09 | 09:10 |
| 02 | LAB MS/MSD | LDLQQ1C5 S | 4052709.D | 05/27/09 | 11:30 |
| 03 | LAB MS/MSD | LDLQQ1C6 D | 4052710.D | 05/27/09 | 11:53 |
| 04 | BP-SO-B04-24 | LDNWT1AV | 4052715.D | 05/27/09 | 14:16 |
| 05 | BP-SO-B02-08 | LDNWW1AV | 4052719.D | 05/27/09 | 15:49 |
| 06 | BP-SO-B02-14 | LDNWW1AV | 4052717.D | 05/27/09 | 15:02 |
| 07 | BP-SO-B02-20 | LDNWX1AV | 4052718.D | 05/27/09 | 15:25 |
| 08 | CHECK SAMPLE | LDTGG1AC C | 4052704.D | 05/27/09 | 09:33 |
| 09 | DUPLICATE CHECK | LDTGG1AD L | 4052705.D | 05/27/09 | 09:55 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E240103
MB Lot-Sample #: C9E270000-429

Work Order #...: LDTGG1AA

Matrix.....: SOLID

Analysis Date...: 05/27/09
Dilution Factor: 1

Prep Date.....: 05/27/09
Prep Batch #...: 9147429
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 08:20
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 95 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C9E240103

Work Order #....: LDTGG1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 93 | (68 - 121) | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDXQ41AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7052802.D

Lot Number: C9E240103

Date Analyzed: 05/28/09

Time Analyzed: 10:11

Matrix: WATER

Date Extracted:05/28/09

GC Column: ID: .00

Extraction Method: 5030B

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LC76H1AA | 7052804.D | 05/28/09 | 11:02 |
| 02 | LAB MS/MSD | LC76H1AK S | 7052808.D | 05/28/09 | 12:40 |
| 03 | LAB MS/MSD | LC76H1AL D | 7052809.D | 05/28/09 | 13:12 |
| 04 | TRIP BLANK | LDPAM1AA | 7052813.D | 05/28/09 | 15:03 |
| 05 | CHECK SAMPLE | LDXQ41AC C | 7052810.D | 05/28/09 | 13:36 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E240103
MB Lot-Sample #: C9E280000-566

Work Order #...: LDXQ41AA

Matrix.....: WATER

Analysis Date...: 05/28/09
Dilution Factor: 1

Prep Date.....: 05/28/09

Prep Batch #...: 9148566

Analysis Time...: 10:11

Initial Wgt/Vol: 5 mL

Final Wgt/Vol...: 5 mL

Analyst ID.....: 034635

Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|--|-------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 100 | ug/L | | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 106 | (62 - 123) |
| Toluene-d8 | 95 | (80 - 120) |
| 4-Bromofluorobenzene | 97 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E240103

Work Order #...: LDXQ41AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 99 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E240103
 Lab File ID (Standard): CC40527 Date Analyzed: 05/27/09
 Instrument ID: HP4 Time Analyzed: 0709
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 227750 | 10.76 | 389477 | 13.09 | 988122 | 7.68 |
| UPPER LIMIT | 455500 | 10.96 | 778954 | 13.29 | 1976244 | 7.88 |
| LOWER LIMIT | 113875 | 10.56 | 194739 | 12.89 | 494061 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 261767 | 10.76 | 458520 | 13.09 | 1215460 | 7.68 |
| 02 INTRA-LAB CH | 212087 | 10.76 | 384945 | 13.09 | 953556 | 7.68 |
| 03 INTRA-LAB CH | 211683 | 10.76 | 393561 | 13.09 | 975185 | 7.68 |
| 04 BP-SO-B04-24 | 210692 | 10.76 | 372893 | 13.10 | 923839 | 7.68 |
| 05 BP-SO-B02-14 | 199253 | 10.77 | 352854 | 13.10 | 878787 | 7.69 |
| 06 BP-SO-B02-20 | 198891 | 10.76 | 351889 | 13.09 | 875462 | 7.69 |
| 07 BP-SO-B02-08 | 195571 | 10.76 | 351293 | 13.09 | 858201 | 7.68 |
| 08 | | | | | | |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E240103

Lab File ID (Standard): 1C70528

Date Analyzed: 05/28/09

Instrument ID: HP7

Time Analyzed: 0800

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

| | | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|----|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | 12 HOUR STD | 347505 | 10.58 | 608599 | 12.91 | 1436696 | 7.50 |
| | UPPER LIMIT | 695010 | 10.78 | 1217198 | 13.11 | 2873392 | 7.70 |
| | LOWER LIMIT | 173753 | 10.38 | 304300 | 12.71 | 718348 | 7.30 |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | EPA SAMPLE NO. | | | | | | |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB BL | 440490 | 10.59 | 803289 | 12.91 | 1855564 | 7.51 |
| 02 | INTRA-LAB CH | 409919 | 10.59 | 658899 | 12.91 | 1619653 | 7.51 |
| 03 | TRIP BLANK | 323996 | 10.58 | 576819 | 12.91 | 1326918 | 7.51 |
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| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Semivolatiles

| | | |
|--|---|---------------------------------|
| Lot-Sample #....: C9E240103-001 | Work Order #....: LDNWT1AC | Matrix.....: SOLID |
| Date Sampled...: 05/22/09 08:20 | Date Received...: 05/23/09 09:55 | MS Run #.....: 9146003 |
| Prep Date.....: 05/26/09 | Analysis Date...: 05/26/09 | |
| Prep Batch #....: 9146011 | Analysis Time...: 10:56 | |
| Dilution Factor: 50 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 25 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 1100 | 890 | ug/kg | 130 |
| 2-Methylnaphthalene | 3000 | 890 | ug/kg | 170 |
| Naphthalene | 19000 | 890 | ug/kg | 130 |
| Acenaphthylene | 1600 | 890 | ug/kg | 180 |
| Acenaphthene | 1700 | 890 | ug/kg | 140 |
| Fluorene | 3000 | 890 | ug/kg | 130 |
| Phenanthrene | 11000 | 890 | ug/kg | 110 |
| Anthracene | 3200 J | 4400 | ug/kg | 160 |
| Fluoranthene | 9900 | 890 | ug/kg | 75 |
| Pyrene | 6500 | 890 | ug/kg | 240 |
| Benzo (a) anthracene | 4200 | 890 | ug/kg | 140 |
| Chrysene | 4000 | 890 | ug/kg | 150 |
| Benzo (b) fluoranthene | 5600 | 890 | ug/kg | 180 |
| Benzo (k) fluoranthene | ND | 890 | ug/kg | 180 |
| Benzo (a) pyrene | 3600 | 890 | ug/kg | 250 |
| Indeno (1,2,3-cd) pyrene | 1800 | 890 | ug/kg | 49 |
| Dibenzo (a,h) anthracene | 520 J | 890 | ug/kg | 190 |
| Benzo (ghi) perylene | 1800 | 890 | ug/kg | 65 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.
J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E240103-002 | Work Order #... : LDNWV1AC | Matrix..... : SOLID |
| Date Sampled... : 05/22/09 12:45 | Date Received... : 05/23/09 09:55 | MS Run #..... : 9146003 |
| Prep Date..... : 05/26/09 | Analysis Date... : 05/26/09 | |
| Prep Batch #... : 9146011 | Analysis Time... : 12:01 | |
| Dilution Factor: 49.67 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 11 | Analyst ID..... : 003200 | Instrument ID... : 731 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|---------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 2400 | 370 | ug/kg | 56 |
| 2-Methylnaphthalene | 5300 | 370 | ug/kg | 73 |
| Naphthalene | 78000 E | 370 | ug/kg | 54 |
| Acenaphthylene | 840 | 370 | ug/kg | 74 |
| Acenaphthene | ND | 370 | ug/kg | 60 |
| Fluorene | 15000 | 370 | ug/kg | 56 |
| Phenanthrene | 8700 | 370 | ug/kg | 44 |
| Anthracene | 1800 | 1800 | ug/kg | 65 |
| Fluoranthene | 7600 | 370 | ug/kg | 31 |
| Pyrene | 6100 | 370 | ug/kg | 99 |
| Benzo (a) anthracene | 3800 | 370 | ug/kg | 59 |
| Chrysene | 3500 | 370 | ug/kg | 65 |
| Benzo (b) fluoranthene | 5400 | 370 | ug/kg | 75 |
| Benzo (k) fluoranthene | ND | 370 | ug/kg | 77 |
| Benzo (a) pyrene | 3000 | 370 | ug/kg | 100 |
| Indeno (1,2,3-cd) pyrene | 1800 | 370 | ug/kg | 20 |
| Dibenzo (a,h) anthracene | 620 | 370 | ug/kg | 82 |
| Benzo (ghi) perylene | 1900 | 370 | ug/kg | 27 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08 *DL*

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-002 Work Order #....: LDNWV2AC Matrix.....: SOLID
 Date Sampled....: 05/22/09 12:45 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 12:45
 Dilution Factor: 99.34 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 11 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|----------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2100 | 750 | ug/kg | 110 |
| 2-Methylnaphthalene | 4500 | 750 | ug/kg | 150 |
| Naphthalene | 63000 | 750 | ug/kg | 110 |
| Acenaphthylene | ND | 750 | ug/kg | 150 |
| Acenaphthene | ND | 750 | ug/kg | 120 |
| Fluorene | 12000 | 750 | ug/kg | 110 |
| Phenanthrene | 7300 | 750 | ug/kg | 89 |
| Anthracene | 1500 J | 3700 | ug/kg | 130 |
| Fluoranthene | 6100 | 750 | ug/kg | 63 |
| Pyrene | 5000 | 750 | ug/kg | 200 |
| Benzo (a) anthracene | 3200 | 750 | ug/kg | 120 |
| Chrysene | 2800 | 750 | ug/kg | 130 |
| Benzo (b) fluoranthene | 4500 | 750 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | 750 | ug/kg | 150 |
| Benzo (a) pyrene | 2300 | 750 | ug/kg | 210 |
| Indeno (1, 2, 3-cd) pyrene | 1600 | 750 | ug/kg | 41 |
| Dibenzo (a, h) anthracene | 520 J | 750 | ug/kg | 160 |
| Benzo (ghi) perylene | 1700 | 750 | ug/kg | 55 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Semivolatiles

Lot-Sample #...: C9E240103-003 Work Order #...: LDNWW1AC Matrix.....: SOLID
 Date Sampled...: 05/22/09 13:45 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9146011 Analysis Time...: 12:23
 Dilution Factor: 75 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 22 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 2600 | 640 | ug/kg | 97 |
| 2-Methylnaphthalene | 4300 | 640 | ug/kg | 130 |
| Naphthalene | 45000 | 640 | ug/kg | 93 |
| Acenaphthylene | 1800 | 640 | ug/kg | 130 |
| Acenaphthene | 2000 | 640 | ug/kg | 100 |
| Fluorene | ND | 640 | ug/kg | 97 |
| Phenanthrene | 24000 | 640 | ug/kg | 77 |
| Anthracene | 7800 | 3200 | ug/kg | 110 |
| Fluoranthene | 24000 | 640 | ug/kg | 54 |
| Pyrene | 19000 | 640 | ug/kg | 170 |
| Benzo (a) anthracene | 10000 | 640 | ug/kg | 100 |
| Chrysene | 10000 | 640 | ug/kg | 110 |
| Benzo (b) fluoranthene | 14000 | 640 | ug/kg | 130 |
| Benzo (k) fluoranthene | ND | 640 | ug/kg | 130 |
| Benzo (a) pyrene | 9300 | 640 | ug/kg | 180 |
| Indeno (1, 2, 3-cd) pyrene | 5400 | 640 | ug/kg | 35 |
| Dibenzo (a, h) anthracene | 1500 | 640 | ug/kg | 140 |
| Benzo (ghi) perylene | 6300 | 640 | ug/kg | 47 |

| SURROGATE | PERCENT | RECOVERY |
|------------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2, 4, 6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E240103-004 | Work Order #... : LDNWX1AC | Matrix..... : SOLID |
| Date Sampled... : 05/22/09 14:10 | Date Received... : 05/23/09 09:55 | MS Run #..... : 9146003 |
| Prep Date..... : 05/26/09 | Analysis Date... : 05/26/09 | |
| Prep Batch #... : 9146011 | Analysis Time... : 13:07 | |
| Dilution Factor : 125 | Initial Wgt/Vol : 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 33 | Analyst ID..... : 003200 | Instrument ID... : 731 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|----------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 11000 | 1300 | ug/kg | 190 |
| 2-Methylnaphthalene | 23000 | 1300 | ug/kg | 250 |
| Naphthalene | 260000 E | 1300 | ug/kg | 180 |
| Acenaphthylene | 1400 | 1300 | ug/kg | 250 |
| Acenaphthene | 2000 | 1300 | ug/kg | 200 |
| Fluorene | 6100 | 1300 | ug/kg | 190 |
| Phenanthrene | 20000 | 1300 | ug/kg | 150 |
| Anthracene | 4400 J | 6200 | ug/kg | 220 |
| Fluoranthene | 17000 | 1300 | ug/kg | 110 |
| Pyrene | 9600 | 1300 | ug/kg | 330 |
| Benzo (a) anthracene | 6300 | 1300 | ug/kg | 200 |
| Chrysene | 7100 | 1300 | ug/kg | 220 |
| Benzo (b) fluoranthene | 6300 | 1300 | ug/kg | 250 |
| Benzo (k) fluoranthene | ND | 1300 | ug/kg | 260 |
| Benzo (a) pyrene | 3400 | 1300 | ug/kg | 350 |
| Indeno (1,2,3-cd) pyrene | 1500 | 1300 | ug/kg | 69 |
| Dibenzo (a,h) anthracene | 550 J | 1300 | ug/kg | 270 |
| Benzo (ghi) perylene | 1600 | 1300 | ug/kg | 92 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20 86

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-004 Work Order #....: LDNWX2AC Matrix.....: SOLID
 Date Sampled....: 05/22/09 14:10 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 19:19
 Dilution Factor: 300 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 33 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 10000 | 3000 | ug/kg | 450 |
| 2-Methylnaphthalene | 24000 | 3000 | ug/kg | 590 |
| Naphthalene | 260000 | 3000 | ug/kg | 440 |
| Acenaphthylene | 1700 J | 3000 | ug/kg | 600 |
| Acenaphthene | 2200 J | 3000 | ug/kg | 480 |
| Fluorene | 6000 | 3000 | ug/kg | 450 |
| Phenanthrene | 20000 | 3000 | ug/kg | 360 |
| Anthracene | 4400 J | 15000 | ug/kg | 520 |
| Fluoranthene | 16000 | 3000 | ug/kg | 250 |
| Pyrene | 8900 | 3000 | ug/kg | 800 |
| Benzo (a) anthracene | 7200 | 3000 | ug/kg | 480 |
| Chrysene | 7300 | 3000 | ug/kg | 520 |
| Benzo (b) fluoranthene | 6300 | 3000 | ug/kg | 610 |
| Benzo (k) fluoranthene | ND | 3000 | ug/kg | 620 |
| Benzo (a) pyrene | 3900 | 3000 | ug/kg | 840 |
| Indeno (1,2,3-cd) pyrene | 1900 J | 3000 | ug/kg | 160 |
| Dibenzo (a,h) anthracene | 700 J | 3000 | ug/kg | 660 |
| Benzo (ghi) perylene | 2100 J | 3000 | ug/kg | 220 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E240103

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B04-24 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-B02-08 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B02-08 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | BP-SO-B02-14 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B02-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | BP-SO-B02-20 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 07 | METHOD BLK. LDN8E1AA | 97 | 122 | 97 | 92 | 99 | 82 | 00 |
| 08 | LCS LDN8E1AC | 86 | 112 | 91 | 84 | 85 | 90 | 00 |
| 09 | BP-SO-B04-24 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 10 | BP-SO-B04-24 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E260000

WO #: LDN8E1AC

BATCH: 9146011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Acenaphthene | 333 | 277 | 83 | 42 - 104 | |
| 4-Nitrophenol | 333 | 382 | 114 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 329 | 99 | 48 - 118 | |
| Pentachlorophenol | 333 | 350 | 105 | 18 - 125 | |
| Pyrene | 333 | 334 | 100 | 39 - 113 | |
| 4-Methylphenol | 667 | 505 | 76 | 43 - 107 | |
| Hexachloroethane | 333 | 229 | 69 | 40 - 102 | |
| Naphthalene | 333 | 266 | 80 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 324 | 97 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 336 | 101 | 40 - 117 | |
| Phenol | 333 | 240 | 72 | 39 - 105 | |
| 2-Chlorophenol | 333 | 253 | 76 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 231 | 69 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 248 | 74 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 268 | 80 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 271 | 81 | 43 - 110 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B04-24

Level: (low/med) LOW

Lot #: C9E240103

WO #: LDNWT1AW

BATCH: 9146011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Phenol | 333 | 470 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 1300 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 4900 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | ND | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 14000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B04-24

Level: (low/med) LOW

Lot #: C9E240103

WO #: LDNWT1AX

BATCH: 9146011

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|--------|
| | | | | | RPD | REC | |
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LDN8E1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: V0526010.

Lot Number: C9E240103

Date Analyzed: 05/26/09

Time Analyzed: 09:29

Matrix: SOLID

Date Extracted:05/26/09

GC Column: DB5 ID: .25

Extraction Method:

Instrument ID: 731

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B04-24 | LDNWT1AC | V0526012. | 05/26/09 | 10:56 |
| 02 | BP-SO-B04-24 | LDNWT1AW S | V0526013. | 05/26/09 | 11:18 |
| 03 | BP-SO-B04-24 | LDNWT1AX D | V0526014. | 05/26/09 | 11:40 |
| 04 | BP-SO-B02-08 | LDNWX1AC | V0526015. | 05/26/09 | 12:01 |
| 05 | BP-SO-B02-08 DL | LDNWX2AC | V0526028. | 05/26/09 | 12:45 |
| 06 | BP-SO-B02-14 | LDNWX1AC | V0526016. | 05/26/09 | 12:23 |
| 07 | BP-SO-B02-20 | LDNWX1AC | V0526017. | 05/26/09 | 13:07 |
| 08 | BP-SO-B02-20 DL | LDNWX2AC | V0526029. | 05/26/09 | 19:19 |
| 09 | CHECK SAMPLE | LDN8E1AC C | V0526011. | 05/26/09 | 10:13 |
| 10 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9E240103
MB Lot-Sample #: C9E260000-011

Work Order #...: LDN8E1AA

Matrix.....: SOLID

Analysis Date...: 05/26/09
Dilution Factor: 0.5

Prep Date.....: 05/26/09
Prep Batch #...: 9146011
Initial Wgt/Vol: 30 g
Analyst ID.....: 003200

Analysis Time...: 09:29
Final Wgt/Vol...: 0.5 mL
Instrument ID...: 731

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 97 | (27 - 110) |
| Terphenyl-d14 | 122 | (21 - 130) |
| 2-Fluorobiphenyl | 97 | (28 - 108) |
| 2-Fluorophenol | 92 | (28 - 107) |
| Phenol-d5 | 99 | (30 - 112) |
| 2,4,6-Tribromophenol | 82 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E240103
 Lab File ID (Standard): V05260CC Date Analyzed: 05/26/09
 Instrument ID: 731 Time Analyzed: 0907

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 118388 | 4.34 | 405290 | 5.31 | 259297 | 6.64 |
| UPPER LIMIT | 236776 | 4.84 | 810580 | 5.81 | 518594 | 7.14 |
| LOWER LIMIT | 59194 | 3.84 | 202645 | 4.81 | 129649 | 6.14 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 152445 | 4.34 | 532795 | 5.30 | 319281 | 6.63 |
| 02 INTRA-LAB CH | 139250 | 4.34 | 466720 | 5.30 | 281062 | 6.63 |
| 03 BP-SO-B04-24 | 138123 | 4.34 | 462107 | 5.30 | 272882 | 6.63 |
| 04 BP-SO-B04-24 | 130350 | 4.34 | 413567 | 5.30 | 250069 | 6.63 |
| 05 BP-SO-B04-24 | 115158 | 4.33 | 399996 | 5.30 | 234069 | 6.63 |
| 06 BP-SO-B02-08 | 157631 | 4.34 | 539699 | 5.30 | 320756 | 6.63 |
| 07 BP-SO-B02-14 | 170306 | 4.33 | 586169 | 5.30 | 332209 | 6.63 |
| 08 BP-SO-B02-08 | 168293 | 4.33 | 574006 | 5.29 | 346593 | 6.63 |
| 09 BP-SO-B02-20 | 98648 | 4.34 | 338507 | 5.30 | 218437 | 6.63 |
| 10 BP-SO-B02-20 | 169312 | 4.33 | 532639 | 5.29 | 299614 | 6.62 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E240103
 Lab File ID (Standard): V05260CC Date Analyzed: 05/26/09
 Instrument ID: 731 Time Analyzed: 0907

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 484292 | 7.76 | 471718 | 9.78 | 489300 | 11.01 |
| UPPER LIMIT | 968584 | 8.26 | 943436 | 10.28 | 978600 | 11.51 |
| LOWER LIMIT | 242146 | 7.26 | 235859 | 9.28 | 244650 | 10.51 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 583643 | 7.76 | 452390 | 9.78 | 449571 | 11.01 |
| 02 INTRA-LAB CH | 537495 | 7.76 | 506841 | 9.78 | 540235 | 11.01 |
| 03 BP-SO-B04-24 | 496331 | 7.77 | 486335 | 9.78 | 493693 | 11.02 |
| 04 BP-SO-B04-24 | 440855 | 7.76 | 446545 | 9.79 | 474423 | 11.02 |
| 05 BP-SO-B04-24 | 428984 | 7.76 | 432106 | 9.78 | 464809 | 11.01 |
| 06 BP-SO-B02-08 | 554640 | 7.76 | 528153 | 9.78 | 549584 | 11.02 |
| 07 BP-SO-B02-14 | 566678 | 7.76 | 515079 | 9.78 | 593104 | 11.01 |
| 08 BP-SO-B02-08 | 573925 | 7.76 | 509859 | 9.78 | 559224 | 11.02 |
| 09 BP-SO-B02-20 | 426281 | 7.76 | 567961 | 9.78 | 631678 | 11.02 |
| 10 BP-SO-B02-20 | 474755 | 7.76 | 604057 | 9.78 | 862787 | 11.02 |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

TOTAL Metals

Lot-Sample #...: C9E240103-001

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 25

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #... : 9146208 | | | | | | |
| Mercury | 0.39 | 0.022 | mg/kg | SW846 7471A | 05/26/09 | LDNWT1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:01 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0072 | |
| Prep Batch #... : 9146296 | | | | | | |
| Silver | 0.47 J | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0016 | |
| Arsenic | 13.5 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.011 | |
| Beryllium | 0.33 E | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0025 | |
| Cadmium | 2.7 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0060 | |
| Chromium | 34.6 J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0053 | |
| Copper | 41.0 J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0056 | |
| Nickel | 23.4 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0045 | |
| Lead | 306 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0023 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

TOTAL Metals

Lot-Sample #...: C9E240103-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.98 J,E | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0022 | |
| Selenium | 0.80 | 0.33 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.027 | |
| Thallium | 0.44 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0013 | |
| Zinc | 849 J | 0.33 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0078 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

TOTAL Metals

Lot-Sample #...: C9E240103-002

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 11

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #... : 9146208 | | | | | | |
| Mercury | 0.41 | 0.019 | mg/kg | SW846 7471A | 05/26/09 | LDNWW1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0061 | |
| Prep Batch #... : 9146296 | | | | | | |
| Silver | 5.0 J | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0067 | |
| Arsenic | 11.4 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.046 | |
| Beryllium | 0.62 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.010 | |
| Cadmium | 6.5 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.026 | |
| Chromium | 633 J | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.022 | |
| Copper | 224 J | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.024 | |
| Nickel | 48.8 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.019 | |
| Lead | 3050 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0095 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

TOTAL Metals

Lot-Sample #...: C9E240103-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Antimony | 11.9 J | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0093 | |
| Selenium | 0.50 B | 1.4 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.11 | |
| Thallium | 0.55 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0056 | |
| Zinc | 1350 J | 1.4 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.033 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

TOTAL Metals

Lot-Sample #...: C9E240103-003

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 22

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.15 | 0.021 | mg/kg | SW846 7471A | 05/26/09 | LDNWW1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:04 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0070 | |
| Prep Batch #...: 9146296 | | | | | | |
| Silver | 0.46 J | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0015 | |
| Arsenic | 10.2 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.011 | |
| Beryllium | 0.48 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0024 | |
| Cadmium | 1.0 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0058 | |
| Chromium | 31.9 J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0051 | |
| Copper | 39.6 J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0054 | |
| Nickel | 9.1 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0044 | |
| Lead | 768 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0022 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

TOTAL Metals

Lot-Sample #...: C9E240103-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.80 J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0021 | |
| Selenium | 1.4 | 0.32 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.026 | |
| Thallium | 0.66 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0013 | |
| Zinc | 786 J | 0.32 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0075 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9E240103-004

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 33

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|---------------------------------|---------------|----------------------------------|--------------|-------------------------|---|-------------------------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.62 | 0.025 | mg/kg | SW846 7471A | 05/26/09 | LDNWX1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:10 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0082 | |
| Prep Batch #...: 9146296 | | | | | | |
| Silver | 7.3 J | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0090 | |
| Arsenic | 43.1 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.062 | |
| Beryllium | 0.70 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.014 | |
| Cadmium | 41.6 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.034 | |
| Chromium | 242 J | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.030 | |
| Copper | 562 J | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.032 | |
| Nickel | 248 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.025 | |
| Lead | 7220 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.013 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9E240103-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Antimony | 17.1 J | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.012 | |
| Selenium | 7.4 | 1.9 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.15 | |
| Thallium | 3.4 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0075 | |
| Zinc | 20200 J | 1.9 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.044 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

| REPORTING | | | | PREPARATION- | WORK | |
|--|---------|-------------------------|-------|-------------------------|-----------------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| MB Lot-Sample #: C9E260000-208 Prep Batch #....: 9146208 | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 05/26/09 | LDPKH1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:44 | | Analyst ID.....: 403938 | Instrument ID...: HGH | |
| MB Lot-Sample #: C9E260000-296 Prep Batch #....: 9146296 | | | | | | |
| Antimony | 0.012 B | 0.10 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.039 B | 0.10 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | 0.015 B | 0.10 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 15:18 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------|------------------------|-------|-------------------------|-------------------------------|-----------------------|
| Silver | 0.0042 B | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 15:18 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 15:18 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Zinc | 0.042 B | 0.25 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDPXL1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 15:18 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9E260000-208 Prep Batch #....: 9146208 | | | | | |
| Mercury | 91 | (80 - 120) | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | Dilution Factor: 0.5 | Analysis Time..: 14:49 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9E260000-296 Prep Batch #....: 9146296 | | | | | |
| Arsenic | 83 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AP |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 91 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AQ |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 93 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AR |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 107 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AT |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 95 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AU |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 99 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AV |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 99 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AW |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 91 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1AX |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 88 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1A0 |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|-------------------------|------------------------|-------------------------------|--------------|
| Thallium | 95 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1A1 |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |
| Zinc | 89 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1A2 |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |
| Silver | 100 | (80 - 120) | SW846 6020 | 05/26-05/27/09 | LDPXL1A3 |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:22 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9E260000-208 Prep Batch #....: 9146208 | | | | | | | |
| Mercury | 0.208 | 0.190 | mg/kg | 91 | SW846 7471A | 05/26/09 | LDPKH1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9E260000-296 Prep Batch #....: 9146296 | | | | | | | |
| Arsenic | 2.00 | 1.66 | mg/kg | 83 | SW846 6020 | 05/26-05/27/09 | LDPXL1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.28 | mg/kg | 91 | SW846 6020 | 05/26-05/27/09 | LDPXL1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.32 | mg/kg | 93 | SW846 6020 | 05/26-05/27/09 | LDPXL1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.7 | mg/kg | 107 | SW846 6020 | 05/26-05/27/09 | LDPXL1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 11.8 | mg/kg | 95 | SW846 6020 | 05/26-05/27/09 | LDPXL1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 24.8 | mg/kg | 99 | SW846 6020 | 05/26-05/27/09 | LDPXL1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 0.990 | mg/kg | 99 | SW846 6020 | 05/26-05/27/09 | LDPXL1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 22.6 | mg/kg | 91 | SW846 6020 | 05/26-05/27/09 | LDPXL1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.438 | mg/kg | 88 | SW846 6020 | 05/26-05/27/09 | LDPXL1A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:22 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|------------|-------------------------------|-----------------|
| Thallium | 2.50 | 2.37 | mg/kg | 95 | SW846 6020 | 05/26-05/27/09 | LDPXL1A1 |
| Dilution Factor: 0.5 Analysis Time...: 15:22 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 25.0 | 22.2 | mg/kg | 89 | SW846 6020 | 05/26-05/27/09 | LDPXL1A2 |
| Dilution Factor: 0.5 Analysis Time...: 15:22 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.51 | mg/kg | 100 | SW846 6020 | 05/26-05/27/09 | LDPXL1A3 |
| Dilution Factor: 0.5 Analysis Time...: 15:22 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #....: 9146208

% Moisture.....: 25

| | | | | | | |
|---|----|------------|--------|-------------|----------|----------|
| Mercury | NC | (75 - 125) | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| | NC | (75 - 125) | (0-20) | SW846 7471A | 05/26/09 | LDLQQ1CR |
| Dilution Factor: 25 | | | | | | |
| Analysis Time...: 15:28 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | |
| MS Run #.....: 9146128 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/21/09

Date Received...: 05/22/09

| PARAMETER | AMOUNT | AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-----|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|-----|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E220334-001 Prep Batch #....: 9146208

% Moisture.....: 25

Mercury

| | | | | | | | | | |
|------|-------|------|----------|--|--|--|-------------|----------|----------|
| 10.0 | 0.112 | 15.7 | NC mg/kg | | | | SW846 7471A | 05/26/09 | LDLQQ1CQ |
| 10.0 | 0.112 | 14.9 | NC mg/kg | | | | SW846 7471A | 05/26/09 | LDLQQ1CR |

Dilution Factor: 25

Analysis Time...: 15:28

Instrument ID...: HGHYDRA

Analyst ID.....: 403938

MS Run #.....: 9146128

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9E240103-001 Prep Batch #...: 9146296 | | | | | | |
| | | | | | % Moisture.....: 25 | |
| Antimony | 67 N | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1CF |
| | 65 N | (75 - 125) 3.1 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CG |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Arsenic | NC | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1A0 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1A1 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Beryllium | 89 | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1A2 |
| | 92 | (75 - 125) 2.9 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1A3 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Cadmium | 64 N | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1A4 |
| | 112 * | (75 - 125) 29 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1A5 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Chromium | 541 N | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1A6 |
| | 114 * | (75 - 125) 73 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1A7 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Copper | 11 N | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1A8 |
| | 90 * | (75 - 125) 27 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1A9 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 05/26-05/27/09 | LDNWT1CD |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CE |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9146185 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-----|------------|------------|----------------------------|--------------|
| Nickel | 72 N | (75 - 125) | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CA |
| | 94 | (75 - 125) | 14 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CC |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | |
| Selenium | 26 N | (75 - 125) | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CH |
| | 83 * | (75 - 125) | 33 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CJ |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | |
| Silver | 89 | (75 - 125) | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CP |
| | 95 | (75 - 125) | 5.2 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CQ |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | |
| Thallium | 89 | (75 - 125) | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CK |
| | 101 | (75 - 125) | 12 | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CL |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | |
| Zinc | NC | (75 - 125) | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CM |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 05/26-05/27/09 | LDNWT1CN |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|--------|------------------|---------------|-------|---------------|-----|------------|----------------------------|--------------|
| MS Lot-Sample #: C9E240103-001 Prep Batch #...: 9146296 | | | | | | | | | |
| % Moisture.....: 25 | | | | | | | | | |
| Antimony | | | | | | | | | |
| 0.98 | 33.2 | 23.3 N | mg/kg | 67 | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CF |
| 0.98 | 33.2 | 22.6 N | mg/kg | 65 | 3.1 | | SW846 6020 | 05/26-05/27/09 | LDNWT1CG |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |
| Arsenic | | | | | | | | | |
| 13.5 | 2.66 | 10.7 NC | mg/kg | | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A0 |
| 13.5 | 2.66 | 16.5 NC | mg/kg | | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A1 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |
| Beryllium | | | | | | | | | |
| 0.33 | 3.32 | 3.29 | mg/kg | 89 | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A2 |
| 0.33 | 3.32 | 3.39 | mg/kg | 92 | 2.9 | | SW846 6020 | 05/26-05/27/09 | LDNWT1A3 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |
| Cadmium | | | | | | | | | |
| 2.7 | 3.32 | 4.77 N | mg/kg | 64 | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A4 |
| 2.7 | 3.32 | 6.39 * | mg/kg | 112 | 29 | | SW846 6020 | 05/26-05/27/09 | LDNWT1A5 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |
| Chromium | | | | | | | | | |
| 34.6 | 13.3 | 106 N | mg/kg | 541 | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A6 |
| 34.6 | 13.3 | 49.7 * | mg/kg | 114 | 73 | | SW846 6020 | 05/26-05/27/09 | LDNWT1A7 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |
| Copper | | | | | | | | | |
| 41.0 | 16.6 | 42.8 N | mg/kg | 11 | | | SW846 6020 | 05/26-05/27/09 | LDNWT1A8 |
| 41.0 | 16.6 | 55.9 * | mg/kg | 90 | 27 | | SW846 6020 | 05/26-05/27/09 | LDNWT1A9 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:35 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9146185 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E240103

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|-------|--------------------------|-----|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 306 | 1.33 | 247 NC | mg/kg | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CD |
| | 306 | 1.33 | 415 NC | mg/kg | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CE |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |
| Nickel | | | | | | | | | |
| | 23.4 | 33.2 | 47.4 N | mg/kg | 72 | | SW846 6020 | 05/26-05/27/09 | LDNWT1CA |
| | 23.4 | 33.2 | 54.7 | mg/kg | 94 | 14 | SW846 6020 | 05/26-05/27/09 | LDNWT1CC |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |
| Selenium | | | | | | | | | |
| | 0.80 | 0.664 | 0.969 N | mg/kg | 26 | | SW846 6020 | 05/26-05/27/09 | LDNWT1CH |
| | 0.80 | 0.664 | 1.35 * | mg/kg | 83 | 33 | SW846 6020 | 05/26-05/27/09 | LDNWT1CJ |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |
| Silver | | | | | | | | | |
| | 0.47 | 3.32 | 3.43 | mg/kg | 89 | | SW846 6020 | 05/26-05/27/09 | LDNWT1CP |
| | 0.47 | 3.32 | 3.61 | mg/kg | 95 | 5.2 | SW846 6020 | 05/26-05/27/09 | LDNWT1CQ |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.44 | 3.32 | 3.40 | mg/kg | 89 | | SW846 6020 | 05/26-05/27/09 | LDNWT1CK |
| | 0.44 | 3.32 | 3.81 | mg/kg | 101 | 12 | SW846 6020 | 05/26-05/27/09 | LDNWT1CL |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |
| Zinc | | | | | | | | | |
| | 849 | 33.2 | 580 NC | mg/kg | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CM |
| | 849 | 33.2 | 1180 NC | mg/kg | | | SW846 6020 | 05/26-05/27/09 | LDNWT1CN |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 15:35 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9146185 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E240103

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B04-24 | C9E240103 001 | LDNWT1AT | 2.2 | mg/kg | 0.11 | 0.66 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-08 | C9E240103 002 | LDNWW1AT | 5.5 | mg/kg | 0.097 | 0.56 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-14 | C9E240103 003 | LDNWW1A | 2.2 | mg/kg | 0.11 | 0.64 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-20 | C9E240103 004 | LDNWX1AT | 47.3 | mg/kg | 1.3 | 7.5 | 10 | 6/2/2009 - 6/2/2009 15:03 | 9153090 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9E240103

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B04-24 | C9E240103 001 | LDNWT1AA | 75.3 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:35 | 9146025 |
| BP-SO-B02-08 | C9E240103 002 | LDNWW1A | 89.1 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:35 | 9146025 |
| BP-SO-B02-14 | C9E240103 003 | LDNWW1A | 78.1 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:35 | 9146025 |
| BP-SO-B02-20 | C9E240103 004 | LDNWX1AA | 66.8 | % | 0.0 | 1.0 | 1 | 5/26/2009 - 5/27/2009 06:35 | 9146025 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9E240103

Matrix: SOLID

Date/Time Received: 5/23/2009 9:55:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F020000090B | 090 MB | LD5VN1AA | ND | mg/kg | 0.50 | 6/2/2009 - 6/2/2009 14:29 | 9153090 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E240103

Matrix: SOLID

Date/Time Received: 5/22/2009 9:35:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LDKVP1AG | 68.4 | % | 1.0 | 5/26/2009 - 5/27/2009 06:35 | 9146025 | 0.82 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F020000
 Date/Time Received: 5/23/2009 9:55:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|--------------|--------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LD5VN1AC | 103 | 38 - 162 | 6/2/2009 - 6/2/2009 14:29 | 9153090 | |
| BP-SO-B04-24 | MS | LDNWT1CR | 108 | 85 - 115 | 6/2/2009 - 6/2/2009 14:29 | 9153090 | 25 / 20 |
| LAB MS/MSD | MS | LDX701CE | 64 N | 85 - 115 | 6/2/2009 - 6/2/2009 14:37 | 9153090 | 39 / 20 |
| BP-SO-B04-24 | MSD | LDNWT1CT | 149 N * | 85 - 115 | 6/2/2009 - 6/2/2009 14:29 | 9153090 | 25 / 20 |
| LAB MS/MSD | MSD | LDX701CF | 98 * | 85 - 115 | 6/2/2009 - 6/2/2009 14:37 | 9153090 | 39 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E240103

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B04-24 | C9E240103-001 | Soil |
| 1MS | BP-SO-B04-24MS | C9E240103-001MS | Soil |
| 1MSD | BP-SO-B04-24MSD | C9E240103-001MSD | Soil |
| 2 | BP-SO-B02-08 | C9E240103-002 | Soil |
| 3 | BP-SO-B02-14 | C9E240103-003 | Soil |
| 4 | BP-SO-B02-20 | C9E240103-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| 1 | Cyanide | Ok/149%/Ok | K | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

1-4

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9E240103

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B04-24 | C9E240103 001 | LDNWT1AT | K 2.2 | mg/kg | 0.11 | 0.66 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-08 | C9E240103 002 | LDNWW1AT | K 5.5 | mg/kg | 0.097 | 0.56 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-14 | C9E240103 003 | LDNWW1A | K 2.2 | mg/kg | 0.11 | 0.64 | 1 | 6/2/2009 - 6/2/2009 14:29 | 9153090 |
| BP-SO-B02-20 | C9E240103 004 | LDNWX1AT | K 47.3 | mg/kg | 1.3 | 7.5 | 10 | 6/2/2009 - 6/2/2009 15:03 | 9153090 |

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E240103

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B04-24 | C9E240103-001 | Soil |
| 1MS | BP-SO-B04-24MS | C9E240103-001MS | Soil |
| 1MSD | BP-SO-B04-24MSD | C9E240103-001MSD | Soil |
| 2 | BP-SO-B02-08 | C9E240103-002 | Soil |
| 3 | BP-SO-B02-14 | C9E240103-003 | Soil |
| 4 | BP-SO-B02-20 | C9E240103-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|-----------------------------|
| 1 | Antimony | 67%/65%/Ok | None | Already qualified due to SD |
| | Cadmium | 64%/Ok/29 | L/UL | All samples |
| | Chromium | 54%/Ok/73 | L/UL | All samples |
| | Copper | 11%/Ok/27 | L/UL | All samples |
| | Nickel | 72%/Ok/Ok | L/UL | All samples |
| | Selenium | 26%/Ok/33 | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|-----------|-------|-----------|------------------|
| 1 | Antimony | 10.1% | J | All samples |
| | Beryllium | 17.8% | J | All samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

TOTAL Metals

Lot-Sample #....: C9E240103-001

Matrix.....: SOLID

Date Sampled....: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 25

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|-----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9146208 | | | | | | |
| Mercury | 0.39 | 0.022 | mg/kg | SW846 7471A | 05/26/09 | LDNWT1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:01 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0072 | |
| Prep Batch #....: 9146296 | | | | | | |
| Silver | 0.47 <i>✓</i> | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0016 | |
| Arsenic | 13.5 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.011 | |
| Beryllium | 0.33 <i>✓ J</i> | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0025 | |
| Cadmium | 2.7 <i>L</i> | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0060 | |
| Chromium | 34.6 <i>✓ L</i> | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0053 | |
| Copper | 41.0 <i>✓ L</i> | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0056 | |
| Nickel | 23.4 <i>L</i> | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0045 | |
| Lead | 306 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0023 | |

(Continued on next page)

EW
8/9/09

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

TOTAL Metals

Lot-Sample #...: C9E240103-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.98 J E J | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0022 | |
| Selenium | 0.80 L | 0.33 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.027 | |
| Thallium | 0.44 | 0.066 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0013 | |
| Zinc | 849 J | 0.33 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWT1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:26 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0078 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

TOTAL Metals

Lot-Sample #...: C9E240103-002

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 11

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.41 | 0.019 | mg/kg | SW846 7471A | 05/26/09 | LDNWV1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:03 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0061 | |
| Prep Batch #...: 9146296 | | | | | | |
| Silver | 5.0 J | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0067 | |
| Arsenic | 11.4 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.046 | |
| Beryllium | 0.62 J | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.010 | |
| Cadmium | 6.5 L | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.026 | |
| Chromium | 633 J L | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.022 | |
| Copper | 224 J L | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.024 | |
| Nickel | 48.8 L | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.019 | |
| Lead | 3050 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0095 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

TOTAL Metals

Lot-Sample #...: C9E240103-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 11.9 J / J | 0.56 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWVIAL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0093 | |
| Selenium | 0.50 B / L | 1.4 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.11 | |
| Thallium | 0.55 | 0.28 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0056 | |
| Zinc | 1350 J / | 1.4 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWV1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:43 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.033 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

TOTAL Metals

Lot-Sample #...: C9E240103-003

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 22

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.15 | 0.021 | mg/kg | SW846 7471A | 05/26/09 | LDNWW1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:04 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0070 | |
| Prep Batch #...: 9146296 | | | | | | |
| Silver | 0.46 <i>J</i> | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0015 | |
| Arsenic | 10.2 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.011 | |
| Beryllium | 0.48 <i>J</i> | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0024 | |
| Cadmium | 1.0 <i>L</i> | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0058 | |
| Chromium | 31.9 <i>J L</i> | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0051 | |
| Copper | 39.6 <i>J L</i> | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0054 | |
| Nickel | 9.1 <i>L</i> | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0044 | |
| Lead | 768 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0022 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

TOTAL Metals

Lot-Sample #...: C9E240103-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.80 <i>J</i> | 0.13 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0021 | |
| Selenium | 1.4 <i>L</i> | 0.32 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.026 | |
| Thallium | 0.66 | 0.064 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0013 | |
| Zinc | 786 <i>J</i> | 0.32 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWW1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:47 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0075 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9E240103-004

Matrix.....: SOLID

Date Sampled...: 05/22/09

Date Received...: 05/23/09

% Moisture.....: 33

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9146208 | | | | | | |
| Mercury | 0.62 | 0.025 | mg/kg | SW846 7471A | 05/26/09 | LDNWX1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:10 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9146128 | MDL.....: 0.0082 | |
| Prep Batch #...: 9146296 | | | | | | |
| Silver | 7.3 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0090 | |
| Arsenic | 43.1 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.062 | |
| Beryllium | 0.70 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.014 | |
| Cadmium | 41.6 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.034 | |
| Chromium | 242 | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.030 | |
| Copper | 562 | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.032 | |
| Nickel | 248 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.025 | |
| Lead | 7220 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.013 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9E240103-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 17.1 <i>✓</i> | 0.75 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.012 | |
| Selenium | 7.4 <i>L</i> | 1.9 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.15 | |
| Thallium | 3.4 | 0.37 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.0075 | |
| Zinc | 20200 <i>✓</i> | 1.9 | mg/kg | SW846 6020 | 05/26-05/27/09 | LDNWX1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 15:51 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9146185 | MDL.....: 0.044 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

fw
8/4/09

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E240103

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B04-24 | C9E240103-001 | Soil |
| 1MS | BP-SO-B04-24MS | C9E240103-001MS | Soil |
| 1MSD | BP-SO-B04-24MSD | C9E240103-001MSD | Soil |
| 2 | BP-SO-B02-08 | C9E240103-002 | Soil |
| 2DL | BP-SO-B02-08DL | C9E240103-002DL | Soil |
| 3 | BP-SO-B02-14 | C9E240103-003 | Soil |
| 4 | BP-SO-B02-20 | C9E240103-004 | Soil |
| 4DL | BP-SO-B02-20DL | C9E240103-004DL | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target compounds. No action was taken on this basis.

EDS sample ID #s 2 and 4 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed these samples. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-001 Work Order #....: LDNWT1AC Matrix.....: SOLID
 Date Sampled...: 05/22/09 08:20 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 10:56
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 25 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1100 | 890 | ug/kg | 130 |
| 2-Methylnaphthalene | 3000 | 890 | ug/kg | 170 |
| Naphthalene | 19000 | 890 | ug/kg | 130 |
| Acenaphthylene | 1600 | 890 | ug/kg | 180 |
| Acenaphthene | 1700 | 890 | ug/kg | 140 |
| Fluorene | 3000 | 890 | ug/kg | 130 |
| Phenanthrene | 11000 | 890 | ug/kg | 110 |
| Anthracene | 3200 J | 4400 | ug/kg | 160 |
| Fluoranthene | 9900 | 890 | ug/kg | 75 |
| Pyrene | 6500 | 890 | ug/kg | 240 |
| Benzo (a) anthracene | 4200 | 890 | ug/kg | 140 |
| Chrysene | 4000 | 890 | ug/kg | 150 |
| Benzo (b) fluoranthene | 5600 | 890 | ug/kg | 180 |
| Benzo (k) fluoranthene | ND | 890 | ug/kg | 180 |
| Benzo (a) pyrene | 3600 | 890 | ug/kg | 250 |
| Indeno (1,2,3-cd) pyrene | 1800 | 890 | ug/kg | 49 |
| Dibenzo (a,h) anthracene | 520 J | 890 | ug/kg | 190 |
| Benzo (ghi) perylene | 1800 | 890 | ug/kg | 65 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

LW
 8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-002 Work Order #....: LDNWV1AC Matrix.....: SOLID
 Date Sampled....: 05/22/09 12:45 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 12:01
 Dilution Factor: 49.67 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 11 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|------------------------------|-----------------|-------|-------------------|
| 1-Methylnaphthalene | 2400 | 370 | ug/kg | 56 |
| 2-Methylnaphthalene | 5300 | 370 | ug/kg | 73 |
| Naphthalene | 63000 78000 E 750 | 370 | ug/kg | 110 54 |
| Acenaphthylene | 840 | 370 | ug/kg | 74 |
| Acenaphthene | ND | 370 | ug/kg | 60 |
| Fluorene | 15000 | 370 | ug/kg | 56 |
| Phenanthrene | 8700 | 370 | ug/kg | 44 |
| Anthracene | 1800 | 1800 | ug/kg | 65 |
| Fluoranthene | 7600 | 370 | ug/kg | 31 |
| Pyrene | 6100 | 370 | ug/kg | 99 |
| Benzo (a) anthracene | 3800 | 370 | ug/kg | 59 |
| Chrysene | 3500 | 370 | ug/kg | 65 |
| Benzo (b) fluoranthene | 5400 | 370 | ug/kg | 75 |
| Benzo (k) fluoranthene | ND | 370 | ug/kg | 77 |
| Benzo (a) pyrene | 3000 | 370 | ug/kg | 100 |
| Indeno (1,2,3-cd) pyrene | 1800 | 370 | ug/kg | 20 |
| Dibenzo (a,h) anthracene | 620 | 370 | ug/kg | 82 |
| Benzo (ghi) perylene | 1900 | 370 | ug/kg | 27 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

- NC The recovery and/or RPD were not calculated.
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.
 E Estimated result. Result concentration exceeds the calibration range.

NW
8/4/09

2DL

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08 DL

Use original

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-002 Work Order #....: LDNWV2AC Matrix.....: SOLID
 Date Sampled....: 05/22/09 12:45 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 12:45
 Dilution Factor: 99.34 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 11 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2100 | 750 | ug/kg | 110 |
| 2-Methylnaphthalene | 4500 | 750 | ug/kg | 150 |
| Naphthalene | 63000 | 750 | ug/kg | 110 |
| Acenaphthylene | ND | 750 | ug/kg | 150 |
| Acenaphthene | ND | 750 | ug/kg | 120 |
| Fluorene | 12000 | 750 | ug/kg | 110 |
| Phenanthrene | 7300 | 750 | ug/kg | 89 |
| Anthracene | 1500 J | 3700 | ug/kg | 130 |
| Fluoranthene | 6100 | 750 | ug/kg | 63 |
| Pyrene | 5000 | 750 | ug/kg | 200 |
| Benzo (a) anthracene | 3200 | 750 | ug/kg | 120 |
| Chrysene | 2800 | 750 | ug/kg | 130 |
| Benzo (b) fluoranthene | 4500 | 750 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | 750 | ug/kg | 150 |
| Benzo (a) pyrene | 2300 | 750 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | 1600 | 750 | ug/kg | 41 |
| Dibenzo (a,h) anthracene | 520 J | 750 | ug/kg | 160 |
| Benzo (ghi) perylene | 1700 | 750 | ug/kg | 55 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

- NC The recovery and/or RPD were not calculated.
- DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.

NW
8/4/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Semivolatiles

Lot-Sample #....: C9E240103-003 Work Order #....: LDNWW1AC Matrix.....: SOLID
 Date Sampled....: 05/22/09 13:45 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #....: 9146011 Analysis Time...: 12:23
 Dilution Factor: 75 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 22 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|----------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2600 | 640 | ug/kg | 97 |
| 2-Methylnaphthalene | 4300 | 640 | ug/kg | 130 |
| Naphthalene | 45000 | 640 | ug/kg | 93 |
| Acenaphthylene | 1800 | 640 | ug/kg | 130 |
| Acenaphthene | 2000 | 640 | ug/kg | 100 |
| Fluorene | ND | 640 | ug/kg | 97 |
| Phenanthrene | 24000 | 640 | ug/kg | 77 |
| Anthracene | 7800 | 3200 | ug/kg | 110 |
| Fluoranthene | 24000 | 640 | ug/kg | 54 |
| Pyrene | 19000 | 640 | ug/kg | 170 |
| Benzo (a) anthracene | 10000 | 640 | ug/kg | 100 |
| Chrysene | 10000 | 640 | ug/kg | 110 |
| Benzo (b) fluoranthene | 14000 | 640 | ug/kg | 130 |
| Benzo (k) fluoranthene | ND | 640 | ug/kg | 130 |
| Benzo (a) pyrene | 9300 | 640 | ug/kg | 180 |
| Indeno (1, 2, 3-cd) pyrene | 5400 | 640 | ug/kg | 35 |
| Dibenzo (a, h) anthracene | 1500 | 640 | ug/kg | 140 |
| Benzo (ghi) perylene | 6300 | 640 | ug/kg | 47 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

 NW
 8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Semivolatiles

Lot-Sample #...: C9E240103-004 Work Order #...: LDNWX1AC Matrix.....: SOLID
 Date Sampled...: 05/22/09 14:10 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9146011 Analysis Time...: 13:07
 Dilution Factor: 125 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 33 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------------|-----------------|-----------|----------------|
| 1-Methylnaphthalene | 11000 | 1300 | ug/kg | 190 |
| 2-Methylnaphthalene | 23000 | 1300 | ug/kg | 250 |
| Naphthalene | 260000 E 3000 | 1300 | ug/kg 440 | 180 |
| Acenaphthylene | 1400 | 1300 | ug/kg | 250 |
| Acenaphthene | 2000 | 1300 | ug/kg | 200 |
| Fluorene | 6100 | 1300 | ug/kg | 190 |
| Phenanthrene | 20000 | 1300 | ug/kg | 150 |
| Anthracene | 4400 J | 6200 | ug/kg | 220 |
| Fluoranthene | 17000 | 1300 | ug/kg | 110 |
| Pyrene | 9600 | 1300 | ug/kg | 330 |
| Benzo (a) anthracene | 6300 | 1300 | ug/kg | 200 |
| Chrysene | 7100 | 1300 | ug/kg | 220 |
| Benzo (b) fluoranthene | 6300 | 1300 | ug/kg | 250 |
| Benzo (k) fluoranthene | ND | 1300 | ug/kg | 260 |
| Benzo (a) pyrene | 3400 | 1300 | ug/kg | 350 |
| Indeno (1,2,3-cd) pyrene | 1500 | 1300 | ug/kg | 69 |
| Dibenzo (a,h) anthracene | 550 J | 1300 | ug/kg | 270 |
| Benzo (ghi) perylene | 1600 | 1300 | ug/kg | 92 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

NW
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20 *DL*

GC/MS Semivolatiles

Use original

Lot-Sample #...: C9E240103-004 Work Order #...: LDNWX2AC Matrix.....: SOLID
 Date Sampled...: 05/22/09 14:10 Date Received...: 05/23/09 09:55 MS Run #.....: 9146003
 Prep Date.....: 05/26/09 Analysis Date...: 05/26/09
 Prep Batch #...: 9146011 Analysis Time...: 19:19
 Dilution Factor: 300 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 33 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 10000 | 3000 | ug/kg | 450 |
| 2-Methylnaphthalene | 24000 | 3000 | ug/kg | 590 |
| Naphthalene | 260000 | 3000 | ug/kg | 440 |
| Acenaphthylene | 1700 J | 3000 | ug/kg | 600 |
| Acenaphthene | 2200 J | 3000 | ug/kg | 480 |
| Fluorene | 6000 | 3000 | ug/kg | 450 |
| Phenanthrene | 20000 | 3000 | ug/kg | 360 |
| Anthracene | 4400 J | 15000 | ug/kg | 520 |
| Fluoranthene | 16000 | 3000 | ug/kg | 250 |
| Pyrene | 8900 | 3000 | ug/kg | 800 |
| Benzo (a) anthracene | 7200 | 3000 | ug/kg | 480 |
| Chrysene | 7300 | 3000 | ug/kg | 520 |
| Benzo (b) fluoranthene | 6300 | 3000 | ug/kg | 610 |
| Benzo (k) fluoranthene | ND | 3000 | ug/kg | 620 |
| Benzo (a) pyrene | 3900 | 3000 | ug/kg | 840 |
| Indeno (1,2,3-cd) pyrene | 1900 J | 3000 | ug/kg | 160 |
| Dibenzo (a,h) anthracene | 700 J | 3000 | ug/kg | 660 |
| Benzo (ghi) perylene | 2100 J | 3000 | ug/kg | 220 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ND
8/4/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E240103

Client: Maryland Environmental Service, Millersville, MD Date: August 4, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B04-24 | C9E240103-001 | Soil |
| 2 | BP-SO-B02-08 | C9E240103-002 | Soil |
| 3 | BP-SO-B02-14 | C9E240103-003 | Soil |
| 4 | BP-SO-B02-20 | C9E240103-004 | Soil |
| 5 | TRIP BLANK | C9E240103-005 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-4 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 5 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|--------------|-----------------|-----------|-------------------------------|
| 05/27/09 | Acrolein | 42.0%/0.035 RRF | None | Already qualified due to ICAL |
| 05/28/09 | Chloroethane | 76.6% | J/UJ | 5 |
| | Acrolein | 40.3%/0.030 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - The trip blank was free of contamination.

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target compounds. No action was taken on this basis.

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-001 | Work Order #....: LDNWT1AV | Matrix.....: SOLID |
| Date Sampled....: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 14:16 | |
| Dilution Factor: 9.16 | Initial Wgt/Vol: 5.46 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 25 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | NR R | 61000 | ug/kg | 9600 |
| Acrylonitrile | ND | 61000 | ug/kg | 4900 |
| Benzene | 38000 | 3000 | ug/kg | 600 |
| Bromodichloromethane | ND | 3000 | ug/kg | 570 |
| Bromoform | ND | 3000 | ug/kg | 650 |
| Bromomethane | ND | 3000 | ug/kg | 960 |
| 2-Butanone (MEK) | ND | 3000 | ug/kg | 660 |
| Carbon tetrachloride | ND | 3000 | ug/kg | 660 |
| Chloroethane | ND | 3000 | ug/kg | 450 |
| 2-Chloroethyl vinyl ether | ND | 6100 | ug/kg | 670 |
| Chloroform | ND | 3000 | ug/kg | 610 |
| Chloromethane | ND | 3000 | ug/kg | 560 |
| Dibromochloromethane | ND | 3000 | ug/kg | 390 |
| 1,2-Dichlorobenzene | ND | 3000 | ug/kg | 410 |
| 1,3-Dichlorobenzene | ND | 3000 | ug/kg | 310 |
| 1,4-Dichlorobenzene | ND | 3000 | ug/kg | 320 |
| trans-1,2-Dichloroethene | ND | 3000 | ug/kg | 460 |
| Dichlorodifluoromethane | ND | 3000 | ug/kg | 390 |
| 1,1-Dichloroethane | ND | 3000 | ug/kg | 620 |
| 1,2-Dichloroethane | ND | 3000 | ug/kg | 580 |
| 1,1-Dichloroethene | ND | 3000 | ug/kg | 650 |
| 1,2-Dichloropropane | ND | 3000 | ug/kg | 780 |
| cis-1,3-Dichloropropene | ND | 3000 | ug/kg | 440 |
| trans-1,3-Dichloropropene | ND | 3000 | ug/kg | 350 |
| Ethylbenzene | ND | 3000 | ug/kg | 380 |
| Methylene chloride | ND | 3000 | ug/kg | 660 |
| 1,1,2,2-Tetrachloroethane | ND | 3000 | ug/kg | 570 |
| Tetrachloroethene | ND | 3000 | ug/kg | 500 |
| Toluene | 2300 J | 3000 | ug/kg | 510 |
| 1,1,1-Trichloroethane | ND | 3000 | ug/kg | 630 |
| 1,1,2-Trichloroethane | ND | 3000 | ug/kg | 710 |
| Trichloroethene | ND | 3000 | ug/kg | 490 |
| Trichlorofluoromethane | ND | 3000 | ug/kg | 680 |
| Vinyl chloride | ND | 3000 | ug/kg | 780 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B04-24

GC/MS Volatiles

Lot-Sample #...: C9E240103-001 Work Order #...: LDNWT1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

new
8/4/09

2

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Volatiles

Lot-Sample #....: C9E240103-002 Work Order #....: LDNWV1AV Matrix.....: SOLID
 Date Sampled....: 05/22/09 Date Received...: 05/23/09 MS Run #.....: 9147274
 Prep Date.....: 05/27/09 Analysis Date...: 05/27/09
 Prep Batch #....: 9147429 Analysis Time...: 15:49
 Dilution Factor: 75.05 Initial Wgt/Vol: 5.33 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 11 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|-------|-------|
| Acrolein | ND <i>R</i> | 420000 | ug/kg | 67000 |
| Acrylonitrile | ND | 420000 | ug/kg | 34000 |
| Benzene | 360000 | 21000 | ug/kg | 4200 |
| Bromodichloromethane | ND | 21000 | ug/kg | 3900 |
| Bromoform | ND | 21000 | ug/kg | 4500 |
| Bromomethane | ND | 21000 | ug/kg | 6600 |
| 2-Butanone (MEK) | ND | 21000 | ug/kg | 4600 |
| Carbon tetrachloride | ND | 21000 | ug/kg | 4600 |
| Chloroethane | ND | 21000 | ug/kg | 3100 |
| 2-Chloroethyl vinyl ether | ND | 42000 | ug/kg | 4700 |
| Chloroform | ND | 21000 | ug/kg | 4200 |
| Chloromethane | ND | 21000 | ug/kg | 3900 |
| Dibromochloromethane | ND | 21000 | ug/kg | 2700 |
| 1,2-Dichlorobenzene | ND | 21000 | ug/kg | 2900 |
| 1,3-Dichlorobenzene | ND | 21000 | ug/kg | 2100 |
| 1,4-Dichlorobenzene | ND | 21000 | ug/kg | 2200 |
| trans-1,2-Dichloroethene | ND | 21000 | ug/kg | 3200 |
| Dichlorodifluoromethane | ND | 21000 | ug/kg | 2700 |
| 1,1-Dichloroethane | ND | 21000 | ug/kg | 4300 |
| 1,2-Dichloroethane | ND | 21000 | ug/kg | 4000 |
| 1,1-Dichloroethene | ND | 21000 | ug/kg | 4500 |
| 1,2-Dichloropropane | ND | 21000 | ug/kg | 5400 |
| cis-1,3-Dichloropropene | ND | 21000 | ug/kg | 3100 |
| trans-1,3-Dichloropropene | ND | 21000 | ug/kg | 2500 |
| Ethylbenzene | 14000 <i>J</i> | 21000 | ug/kg | 2600 |
| Methylene chloride | ND | 21000 | ug/kg | 4600 |
| 1,1,2,2-Tetrachloroethane | ND | 21000 | ug/kg | 3900 |
| Tetrachloroethene | ND | 21000 | ug/kg | 3500 |
| Toluene | 140000 | 21000 | ug/kg | 3600 |
| 1,1,1-Trichloroethane | ND | 21000 | ug/kg | 4300 |
| 1,1,2-Trichloroethane | ND | 21000 | ug/kg | 4900 |
| Trichloroethene | ND | 21000 | ug/kg | 3400 |
| Trichlorofluoromethane | ND | 21000 | ug/kg | 4700 |
| Vinyl chloride | ND | 21000 | ug/kg | 5400 |

(Continued on next page)

uw
8/4/09

2

Maryland Environmental Service

Client Sample ID: BP-SO-B02-08

GC/MS Volatiles

Lot-Sample #....: C9E240103-002 Work Order #....: LDNWV1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 98 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 101 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

lw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-003 | Work Order #....: LDNWW1AV | Matrix.....: SOLID |
| Date Sampled....: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 15:02 | |
| Dilution Factor: 29.1 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 22 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|-------|
| Acrolein | ND R | 190000 | ug/kg | 30000 |
| Acrylonitrile | ND | 190000 | ug/kg | 15000 |
| Benzene | 150000 | 9300 | ug/kg | 1800 |
| Bromodichloromethane | ND | 9300 | ug/kg | 1700 |
| Bromoform | ND | 9300 | ug/kg | 2000 |
| Bromomethane | ND | 9300 | ug/kg | 2900 |
| 2-Butanone (MEK) | ND | 9300 | ug/kg | 2000 |
| Carbon tetrachloride | ND | 9300 | ug/kg | 2000 |
| Chloroethane | ND | 9300 | ug/kg | 1400 |
| 2-Chloroethyl vinyl ether | ND | 19000 | ug/kg | 2100 |
| Chloroform | ND | 9300 | ug/kg | 1900 |
| Chloromethane | ND | 9300 | ug/kg | 1700 |
| Dibromochloromethane | ND | 9300 | ug/kg | 1200 |
| 1,2-Dichlorobenzene | ND | 9300 | ug/kg | 1300 |
| 1,3-Dichlorobenzene | ND | 9300 | ug/kg | 940 |
| 1,4-Dichlorobenzene | ND | 9300 | ug/kg | 980 |
| trans-1,2-Dichloroethene | ND | 9300 | ug/kg | 1400 |
| Dichlorodifluoromethane | ND | 9300 | ug/kg | 1200 |
| 1,1-Dichloroethane | ND | 9300 | ug/kg | 1900 |
| 1,2-Dichloroethane | ND | 9300 | ug/kg | 1800 |
| 1,1-Dichloroethene | ND | 9300 | ug/kg | 2000 |
| 1,2-Dichloropropane | ND | 9300 | ug/kg | 2400 |
| cis-1,3-Dichloropropene | ND | 9300 | ug/kg | 1400 |
| trans-1,3-Dichloropropene | ND | 9300 | ug/kg | 1100 |
| Ethylbenzene | ND | 9300 | ug/kg | 1200 |
| Methylene chloride | ND | 9300 | ug/kg | 2000 |
| 1,1,2,2-Tetrachloroethane | ND | 9300 | ug/kg | 1700 |
| Tetrachloroethene | ND | 9300 | ug/kg | 1500 |
| Toluene | 43000 | 9300 | ug/kg | 1600 |
| 1,1,1-Trichloroethane | ND | 9300 | ug/kg | 1900 |
| 1,1,2-Trichloroethane | ND | 9300 | ug/kg | 2200 |
| Trichloroethene | ND | 9300 | ug/kg | 1500 |
| Trichlorofluoromethane | ND | 9300 | ug/kg | 2100 |
| Vinyl chloride | ND | 9300 | ug/kg | 2400 |

(Continued on next page)

LW
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-14

GC/MS Volatiles

Lot-Sample #...: C9E240103-003 Work Order #...: LDNWW1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 96 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

4

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-004 | Work Order #....: LDNWX1AV | Matrix.....: SOLID |
| Date Sampled....: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9147274 |
| Prep Date.....: 05/27/09 | Analysis Date...: 05/27/09 | |
| Prep Batch #....: 9147429 | Analysis Time...: 15:25 | |
| Dilution Factor: 47.4 | Initial Wgt/Vol: 5.27 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 33 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|-----------------|-------|-------|
| Acrolein | ND R | 350000 | ug/kg | 56000 |
| Acrylonitrile | ND | 350000 | ug/kg | 29000 |
| Benzene | 360000 | 18000 | ug/kg | 3500 |
| Bromodichloromethane | ND | 18000 | ug/kg | 3300 |
| Bromoform | ND | 18000 | ug/kg | 3800 |
| Bromomethane | ND | 18000 | ug/kg | 5600 |
| 2-Butanone (MEK) | ND | 18000 | ug/kg | 3800 |
| Carbon tetrachloride | ND | 18000 | ug/kg | 3800 |
| Chloroethane | ND | 18000 | ug/kg | 2700 |
| 2-Chloroethyl vinyl ether | ND | 35000 | ug/kg | 3900 |
| Chloroform | ND | 18000 | ug/kg | 3600 |
| Chloromethane | ND | 18000 | ug/kg | 3300 |
| Dibromochloromethane | ND | 18000 | ug/kg | 2300 |
| 1,2-Dichlorobenzene | ND | 18000 | ug/kg | 2400 |
| 1,3-Dichlorobenzene | ND | 18000 | ug/kg | 1800 |
| 1,4-Dichlorobenzene | ND | 18000 | ug/kg | 1900 |
| trans-1,2-Dichloroethene | ND | 18000 | ug/kg | 2700 |
| Dichlorodifluoromethane | ND | 18000 | ug/kg | 2300 |
| 1,1-Dichloroethane | ND | 18000 | ug/kg | 3600 |
| 1,2-Dichloroethane | ND | 18000 | ug/kg | 3400 |
| 1,1-Dichloroethene | ND | 18000 | ug/kg | 3800 |
| 1,2-Dichloropropane | ND | 18000 | ug/kg | 4500 |
| cis-1,3-Dichloropropene | ND | 18000 | ug/kg | 2600 |
| trans-1,3-Dichloropropene | ND | 18000 | ug/kg | 2100 |
| Ethylbenzene | ND | 18000 | ug/kg | 2200 |
| Methylene chloride | ND | 18000 | ug/kg | 3900 |
| 1,1,2,2-Tetrachloroethane | ND | 18000 | ug/kg | 3300 |
| Tetrachloroethene | ND | 18000 | ug/kg | 2900 |
| Toluene | 58000 | 18000 | ug/kg | 3000 |
| 1,1,1-Trichloroethane | ND | 18000 | ug/kg | 3700 |
| 1,1,2-Trichloroethane | ND | 18000 | ug/kg | 4100 |
| Trichloroethene | ND | 18000 | ug/kg | 2800 |
| Trichlorofluoromethane | ND | 18000 | ug/kg | 4000 |
| Vinyl chloride | ND | 18000 | ug/kg | 4600 |

(Continued on next page)

mw
8/4/09

Maryland Environmental Service

Client Sample ID: BP-SO-B02-20

GC/MS Volatiles

Lot-Sample #....: C9E240103-004 Work Order #....: LDNWX1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

5

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E240103-005 | Work Order #....: LDPAM1AA | Matrix.....: WATER |
| Date Sampled....: 05/22/09 | Date Received...: 05/23/09 | MS Run #.....: 9148346 |
| Prep Date.....: 05/28/09 | Analysis Date...: 05/28/09 | |
| Prep Batch #....: 9148566 | Analysis Time...: 15:03 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND u | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

5

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9E240103-005 Work Order #....: LDPAM1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 107 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 101 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

Law
8/4/09

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9E280323

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 10, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9E280323

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on May 28, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The continuing calibration standard N06010CC had compounds with a %D > 25%; but were within expected performance range for these compounds.

METHODS SUMMARY

C9E280323

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

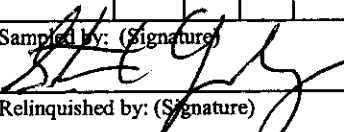
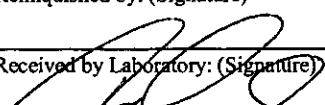
C9E280323

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LDXDC | 001 | BP-SO-B05-8 | 05/27/09 | 09:45 |
| LDXDN | 002 | BP-SO-B05-14 | 05/27/09 | 10:50 |
| LDXDR | 003 | BP-SO-B05-20 | 05/27/09 | 10:45 |
| LDX1G | 004 | SRM | 05/27/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CC #05

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-------------|-------------|--|--|--|--|---|--|--|---------------------|------------------------|-----------------------------|--|--|---------------------------------|--|--|--|---|--|----------------|--|
| Client: Maryland Environmental Service | | | | EA Project Manager: Karin Olsen Phone: 410-329-5112 | | | | Parameters/Method Numbers for Analysis | | | | | | | | | | | | Chain of Custody Record | | | |
| MES Contact: Megan Simon Phone: 410-729-8334 | | | | EA Field Contact: Steve Yankay Phone: 717-487-6632 | | | | | | | | | | | | | | | | Laboratory: TestAmerica - Pittsburgh 301 Alpha Drive, RIDC Park Pittsburgh, PA 15238 phone: 412-963-2428 fax: 412-963-2468 ATTN: Carrie Gamber | | | |
| Project Name: Sparrows Point - RCRA Onshore Sampling | | | | | | | | Project#: 14534.06 Quote Number 18001868 | | | | | | | | | | | | | | | |
| Page 1 of 1 | | | | Soil Samples | | | | | | | | | | | | | | | | | | | |
| Date | Time | NAPL | Soil | Sample Identification | | | | No. of Containers | SVOC and PAHs 8270C (low level) | Metals (PPL) and Mercury 6020/7471A | VOCS (8260B) | Cyanide (9012A) | NAPL - VOCs and PAHs | | | | | | | | | Remarks | |
| 5/27/09 | 0945 | | X | BP-SO-BOS-8 | | | | 8 | X | X | X | X | | | | | | | | SEE PROJECT SPECIFIC ANALYTE LIST | | | |
| I | 1050 | | I | BP-SO-BOS-14 | | | | 8 | X | X | X | X | | | | | | | | | | | |
| I | 1045 | | I | BP-SO-BOS-20 | | | | 8 | X | X | X | X | | | | | | | | Run SRMs on metals, PAHs | | | |
| | | | | | | | | | | | | | | | | | | | | 5 day turn-around -time for all samples | | | |
| Sampled by: (Signature)  | | | | Date/Time 5/27/09 1530 | | | | Relinquished by: (Signature)  | | | | | | | | Date/Time 5/28/09 950 | | | | SOIL | | | |
| Relinquished by: (Signature) | | | | Date/Time | | | | Received by Laboratory: (Signature) | | | | | | | | Date/Time | | | | | | | |

Cooler Receipt Form

TestAmerica Pittsburgh

Client: MES Project: _____ Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 5/28/9

Coolers Opened and Unpacked on: 5/28/9 By: JO
(Signature)

TestAmerica Pittsburgh Lot Number: C9E280323

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | | <input checked="" type="checkbox"/> | |
| If YES, how many and where? Quantity <u> </u> Location <u> </u> | | | |
| Were signatures and date correct? _____ | | | |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | | |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | | |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | | |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | | |
| If YES, what type? <u>BUBBLE BAGS</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | | |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | | |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | | |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | | |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | | |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | | |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | | | <input checked="" type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

* Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

**Please use an asterisk if bottle lot number was covered by the label

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____

Hydrochloric Acid

Sulfuric Acid

Sodium Hydroxide

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx US Airbill
Express

8694 4003 0296

0200

Form ID No.

FedEx Retrieval Copy

1 From Date **5/27/09** Sender's FedEx Account Number **0212-0722-5**

Sender's Name **Steve Yankay** Phone **717 487-6632**

Company **EA Engineering**

Address **15 Loveton Circle** Dept./Floor/Suite/Room

City **Sparks** State **MD** ZIP **21152**

2 Your Internal Billing Reference **1453406.0001.0004B**

3 To Recipient's Name **Sample Receiving** Phone **412 963-2430**

Company **Test America**

Recipient's Address **301 Alpha Drive** Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address **Pittsburgh** State **PA** ZIP **15238**

To request a package be held at a specific FedEx location, print FedEx address here.



8694 4003 0296

4a Express Package Service

Packages up to 150 lbs.

- 1 ☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 5 ☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.
- 6 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- 3 ☐ FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Envelope this not available. Minimum charge: One-pound rate.
- 20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.
- * To most locations.

4b Express Freight Service

Packages over 150 lbs.

- 7 ☐ FedEx 1Day Freight*
Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 8 ☐ FedEx 2Day Freight
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 83 ☐ FedEx 3Day Freight
Third business day.* Saturday Delivery NOT available.
- * To most locations.

* Call for Confirmation.

5 Packaging

- 6 ☐ FedEx Envelope*
- 2 ☐ FedEx Pak*
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- 3 ☐ FedEx Box
- 4 ☐ FedEx Tube
- 1 ☒ Other
* Declared value limit \$500.

6 Special Handling

Include FedEx address in Section 3.

- 3 ☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- 1 ☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.
- 31 ☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?

- ☒ No 4 ☐ Yes
One box must be checked. As per attached Shipper's Declaration.
- ☐ Yes
Shipper's Declaration not required.
- 6 ☐ Dry Ice
Dry Ice, 9 UN 1845 x kg
- ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No.

- 1 ☒ Sender Acct. No. in Section 1 will be billed.
- 2 ☐ Recipient
- 3 ☐ Third Party
- 4 ☐ Credit Card
- 5 ☐ Cash/Check

Total Packages

Total Weight

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

- No Signature Required
Package may be left without obtaining a signature for delivery.
- 10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
- 34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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fedex.com 1.800.GoFedEx 1.800.463.3339

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E280323-001 | Work Order #....: LDXDC1AV | Matrix.....: SOLID |
| Date Sampled...: 05/27/09 | Date Received...: 05/28/09 | MS Run #.....: |
| Prep Date.....: 06/03/09 | Analysis Date...: 06/03/09 | |
| Prep Batch #....: 9154569 | Analysis Time...: 15:50 | |
| Dilution Factor: 48.64 | Initial Wgt/Vol: 5.14 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 10 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|--------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 270000 | ug/kg | 43000 |
| Acrylonitrile | ND | 270000 | ug/kg | 22000 |
| Benzene | 470000 | 14000 | ug/kg | 2700 |
| Bromodichloromethane | ND | 14000 | ug/kg | 2500 |
| Bromoform | ND | 14000 | ug/kg | 2900 |
| Bromomethane | ND | 14000 | ug/kg | 4300 |
| 2-Butanone (MEK) | ND | 14000 | ug/kg | 2900 |
| Carbon tetrachloride | ND | 14000 | ug/kg | 2900 |
| Chloroethane | ND | 14000 | ug/kg | 2000 |
| 2-Chloroethyl vinyl ether | ND | 27000 | ug/kg | 3000 |
| Chloroform | ND | 14000 | ug/kg | 2700 |
| Chloromethane | ND | 14000 | ug/kg | 2500 |
| Dibromochloromethane | ND | 14000 | ug/kg | 1800 |
| 1,2-Dichlorobenzene | ND | 14000 | ug/kg | 1800 |
| 1,3-Dichlorobenzene | ND | 14000 | ug/kg | 1400 |
| 1,4-Dichlorobenzene | ND | 14000 | ug/kg | 1400 |
| trans-1,2-Dichloroethene | ND | 14000 | ug/kg | 2000 |
| Dichlorodifluoromethane | ND | 14000 | ug/kg | 1700 |
| 1,1-Dichloroethane | ND | 14000 | ug/kg | 2700 |
| 1,2-Dichloroethane | ND | 14000 | ug/kg | 2600 |
| 1,1-Dichloroethene | ND | 14000 | ug/kg | 2900 |
| 1,2-Dichloropropane | ND | 14000 | ug/kg | 3400 |
| cis-1,3-Dichloropropene | ND | 14000 | ug/kg | 2000 |
| trans-1,3-Dichloropropene | ND | 14000 | ug/kg | 1600 |
| Ethylbenzene | 17000 | 14000 | ug/kg | 1700 |
| Methylene chloride | ND | 14000 | ug/kg | 2900 |
| 1,1,2,2-Tetrachloroethane | ND | 14000 | ug/kg | 2500 |
| Tetrachloroethene | ND | 14000 | ug/kg | 2200 |
| Toluene | 330000 | 14000 | ug/kg | 2300 |
| 1,1,1-Trichloroethane | ND | 14000 | ug/kg | 2800 |
| 1,1,2-Trichloroethane | ND | 14000 | ug/kg | 3100 |
| Trichloroethene | ND | 14000 | ug/kg | 2200 |
| Trichlorofluoromethane | ND | 14000 | ug/kg | 3000 |
| Vinyl chloride | ND | 14000 | ug/kg | 3500 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Volatiles

Lot-Sample #...: C9E280323-001 Work Order #...: LDXDC1AV Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9E280323-002 | Work Order #...: LDXDN1AV | Matrix.....: SOLID |
| Date Sampled...: 05/27/09 | Date Received...: 05/28/09 | MS Run #.....: |
| Prep Date.....: 06/03/09 | Analysis Date...: 06/03/09 | |
| Prep Batch #...: 9154569 | Analysis Time...: 16:13 | |
| Dilution Factor: 4.73 | Initial Wgt/Vol: 5.28 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 35 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 36000 | ug/kg | 5800 |
| Acrylonitrile | ND | 36000 | ug/kg | 2900 |
| Benzene | 22000 | 1800 | ug/kg | 360 |
| Bromodichloromethane | ND | 1800 | ug/kg | 340 |
| Bromoform | ND | 1800 | ug/kg | 390 |
| Bromomethane | ND | 1800 | ug/kg | 570 |
| 2-Butanone (MEK) | ND | 1800 | ug/kg | 390 |
| Carbon tetrachloride | ND | 1800 | ug/kg | 390 |
| Chloroethane | ND | 1800 | ug/kg | 270 |
| 2-Chloroethyl vinyl ether | ND | 3600 | ug/kg | 400 |
| Chloroform | ND | 1800 | ug/kg | 370 |
| Chloromethane | ND | 1800 | ug/kg | 340 |
| Dibromochloromethane | ND | 1800 | ug/kg | 240 |
| 1,2-Dichlorobenzene | ND | 1800 | ug/kg | 250 |
| 1,3-Dichlorobenzene | ND | 1800 | ug/kg | 180 |
| 1,4-Dichlorobenzene | ND | 1800 | ug/kg | 190 |
| trans-1,2-Dichloroethene | ND | 1800 | ug/kg | 270 |
| Dichlorodifluoromethane | ND | 1800 | ug/kg | 230 |
| 1,1-Dichloroethane | ND | 1800 | ug/kg | 370 |
| 1,2-Dichloroethane | ND | 1800 | ug/kg | 350 |
| 1,1-Dichloroethene | ND | 1800 | ug/kg | 390 |
| 1,2-Dichloropropane | ND | 1800 | ug/kg | 460 |
| cis-1,3-Dichloropropene | ND | 1800 | ug/kg | 260 |
| trans-1,3-Dichloropropene | ND | 1800 | ug/kg | 210 |
| Ethylbenzene | 770 J | 1800 | ug/kg | 230 |
| Methylene chloride | ND | 1800 | ug/kg | 400 |
| 1,1,2,2-Tetrachloroethane | ND | 1800 | ug/kg | 340 |
| Tetrachloroethene | ND | 1800 | ug/kg | 300 |
| Toluene | 14000 | 1800 | ug/kg | 310 |
| 1,1,1-Trichloroethane | ND | 1800 | ug/kg | 370 |
| 1,1,2-Trichloroethane | ND | 1800 | ug/kg | 420 |
| Trichloroethene | ND | 1800 | ug/kg | 290 |
| Trichlorofluoromethane | ND | 1800 | ug/kg | 410 |
| Vinyl chloride | ND | 1800 | ug/kg | 470 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Volatiles

Lot-Sample #...: C9E280323-002 Work Order #...: LDXDN1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 84 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 91 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E280323-003 | Work Order #....: LDXDR1AV | Matrix.....: SOLID |
| Date Sampled....: 05/27/09 | Date Received...: 05/28/09 | MS Run #.....: |
| Prep Date.....: 06/03/09 | Analysis Date...: 06/03/09 | |
| Prep Batch #....: 9154569 | Analysis Time...: 16:36 | |
| Dilution Factor: 4.69 | Initial Wgt/Vol: 5.33 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 38 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 38000 | ug/kg | 6000 |
| Acrylonitrile | ND | 38000 | ug/kg | 3100 |
| Benzene | 21000 | 1900 | ug/kg | 380 |
| Bromodichloromethane | ND | 1900 | ug/kg | 350 |
| Bromoform | ND | 1900 | ug/kg | 410 |
| Bromomethane | ND | 1900 | ug/kg | 600 |
| 2-Butanone (MEK) | ND | 1900 | ug/kg | 410 |
| Carbon tetrachloride | ND | 1900 | ug/kg | 410 |
| Chloroethane | ND | 1900 | ug/kg | 280 |
| 2-Chloroethyl vinyl ether | ND | 3800 | ug/kg | 420 |
| Chloroform | ND | 1900 | ug/kg | 380 |
| Chloromethane | ND | 1900 | ug/kg | 350 |
| Dibromochloromethane | ND | 1900 | ug/kg | 250 |
| 1,2-Dichlorobenzene | ND | 1900 | ug/kg | 260 |
| 1,3-Dichlorobenzene | ND | 1900 | ug/kg | 190 |
| 1,4-Dichlorobenzene | ND | 1900 | ug/kg | 200 |
| trans-1,2-Dichloroethene | ND | 1900 | ug/kg | 290 |
| Dichlorodifluoromethane | ND | 1900 | ug/kg | 240 |
| 1,1-Dichloroethane | ND | 1900 | ug/kg | 380 |
| 1,2-Dichloroethane | ND | 1900 | ug/kg | 360 |
| 1,1-Dichloroethene | ND | 1900 | ug/kg | 400 |
| 1,2-Dichloropropane | ND | 1900 | ug/kg | 480 |
| cis-1,3-Dichloropropene | ND | 1900 | ug/kg | 280 |
| trans-1,3-Dichloropropene | ND | 1900 | ug/kg | 220 |
| Ethylbenzene | 590 J | 1900 | ug/kg | 240 |
| Methylene chloride | ND | 1900 | ug/kg | 410 |
| 1,1,2,2-Tetrachloroethane | ND | 1900 | ug/kg | 350 |
| Tetrachloroethene | ND | 1900 | ug/kg | 310 |
| Toluene | 12000 | 1900 | ug/kg | 320 |
| 1,1,1-Trichloroethane | ND | 1900 | ug/kg | 390 |
| 1,1,2-Trichloroethane | ND | 1900 | ug/kg | 440 |
| Trichloroethene | ND | 1900 | ug/kg | 300 |
| Trichlorofluoromethane | ND | 1900 | ug/kg | 420 |
| Vinyl chloride | ND | 1900 | ug/kg | 490 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Volatiles

Lot-Sample #...: C9E280323-003 Work Order #...: LDXDR1AV Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 96 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E280323

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B05-8 | 89 | 100 | 93 | 94 | 00 |
| 02 | BP-SO-B05-14 | 84 | 99 | 91 | 94 | 00 |
| 03 | BP-SO-B05-20 | 88 | 105 | 96 | 100 | 00 |
| 04 | METHOD BLK. LD9R01AA | 88 | 100 | 94 | 100 | 00 |
| 05 | LCS LD9R01AC | 90 | 104 | 96 | 103 | 00 |
| 06 | LCSD LD9R01AD | 92 | 106 | 97 | 104 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030000

WO #: LD9R01AC

BATCH: 9154569

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2170 | 108 | 59 - 129 | |
| Trichloroethene | 2000 | 2160 | 108 | 76 - 119 | |
| Benzene | 2000 | 2100 | 105 | 77 - 120 | |
| Toluene | 2000 | 2190 | 109 | 78 - 124 | |
| Chlorobenzene | 2000 | 2180 | 109 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030000

WO #: LD9R01AD

BATCH: 9154569

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2190 | 110 | 59 - 129 | |
| Trichloroethene | 2000 | 2230 | 111 | 76 - 119 | |
| Benzene | 2000 | 2160 | 108 | 77 - 120 | |
| Toluene | 2000 | 2260 | 113 | 78 - 124 | |
| Chlorobenzene | 2000 | 2270 | 114 | 79 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limitsCOMMENTS:

FORM III

LD9R01AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4060302.D

Lot Number: C9E280323

Date Analyzed: 06/03/09

Time Analyzed: 10:35

Matrix: SOLID

Date Extracted:06/03/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level:(low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-SO-B05-8 | LDXDC1AV | 4060314.D | 06/03/09 | 15:50 |
| 02 | BP-SO-B05-14 | LDXDN1AV | 4060315.D | 06/03/09 | 16:13 |
| 03 | BP-SO-B05-20 | LDXDR1AV | 4060316.D | 06/03/09 | 16:36 |
| 04 | CHECK SAMPLE | LD9R01AC C | 4060303.D | 06/03/09 | 11:05 |
| 05 | DUPLICATE CHECK | LD9R01AD L | 4060304.D | 06/03/09 | 11:28 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E280323
MB Lot-Sample #: C9F030000-569

Work Order #...: LD9R01AA

Matrix.....: SOLID

Analysis Date...: 06/03/09
Dilution Factor: 1

Prep Date.....: 06/03/09

Prep Batch #...: 9154569

Initial Wgt/Vol: 5 g

Analyst ID.....: 034635

Analysis Time...: 10:35

Final Wgt/Vol...: 5 mL

Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 94 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E280323

Work Order #...: LD9R01AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 100 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E280323
 Lab File ID (Standard): CC40603 Date Analyzed: 06/03/09
 Instrument ID: HP4 Time Analyzed: 0822
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 189199 | 10.76 | 346881 | 13.09 | 801475 | 7.68 |
| UPPER LIMIT | 378398 | 10.96 | 693762 | 13.29 | 1602950 | 7.88 |
| LOWER LIMIT | 94600 | 10.56 | 173441 | 12.89 | 400738 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 233842 | 10.76 | 428973 | 13.09 | 1038146 | 7.68 |
| 02 INRA-LAB CHE | 189170 | 10.76 | 361547 | 13.09 | 836811 | 7.68 |
| 03 INTRA-LAB CH | 180876 | 10.76 | 343569 | 13.09 | 806022 | 7.68 |
| 04 BP-SO-B05-8 | 212198 | 10.76 | 384607 | 13.09 | 908615 | 7.68 |
| 05 BP-SO-B05-14 | 219136 | 10.76 | 387252 | 13.09 | 947618 | 7.68 |
| 06 BP-SO-B05-20 | 194336 | 10.76 | 362592 | 13.09 | 871462 | 7.68 |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E280323-001 | Work Order #... : LDXDC1AC | Matrix..... : SOLID |
| Date Sampled... : 05/27/09 09:45 | Date Received... : 05/28/09 09:50 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 11:08 | |
| Dilution Factor : 99.34 | Initial Wgt/Vol : 30.2 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 10 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------|--------------------|-------|-----|
| 1-Methylnaphthalene | 24000 | 740 | ug/kg | 110 |
| 2-Methylnaphthalene | 64000 | 740 | ug/kg | 140 |
| Naphthalene | 370000 E | 740 | ug/kg | 110 |
| Acenaphthylene | 19000 | 740 | ug/kg | 150 |
| Acenaphthene | 4600 | 740 | ug/kg | 120 |
| Fluorene | 14000 | 740 | ug/kg | 110 |
| Phenanthrene | 15000 | 740 | ug/kg | 88 |
| Anthracene | 2300 J | 3600 | ug/kg | 130 |
| Fluoranthene | 3700 | 740 | ug/kg | 62 |
| Pyrene | 3100 | 740 | ug/kg | 200 |
| Benzo (a) anthracene | 1100 | 740 | ug/kg | 120 |
| Chrysene | 1300 | 740 | ug/kg | 130 |
| Benzo (b) fluoranthene | 1200 | 740 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | 740 | ug/kg | 150 |
| Benzo (a) pyrene | 780 | 740 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | 460 J | 740 | ug/kg | 40 |
| Dibenzo (a,h) anthracene | ND | 740 | ug/kg | 160 |
| Benzo (ghi) perylene | 510 J | 740 | ug/kg | 54 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8 DL

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E280323-001 | Work Order #....: LDXDC2AC | Matrix.....: SOLID |
| Date Sampled...: 05/27/09 09:45 | Date Received...: 05/28/09 09:50 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 18:02 | |
| Dilution Factor: 745.03 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 10 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|---------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 24000 | 5500 | ug/kg | 840 |
| 2-Methylnaphthalene | 63000 | 5500 | ug/kg | 1100 |
| Naphthalene | 1000000 | 5500 | ug/kg | 800 |
| Acenaphthylene | 22000 | 5500 | ug/kg | 1100 |
| Acenaphthene | 5300 J | 5500 | ug/kg | 890 |
| Fluorene | 14000 | 5500 | ug/kg | 830 |
| Phenanthrene | 14000 | 5500 | ug/kg | 660 |
| Anthracene | 2200 J | 27000 | ug/kg | 970 |
| Fluoranthene | 3700 J | 5500 | ug/kg | 470 |
| Pyrene | 3100 J | 5500 | ug/kg | 1500 |
| Benzo (a) anthracene | ND | 5500 | ug/kg | 880 |
| Chrysene | ND | 5500 | ug/kg | 970 |
| Benzo (b) fluoranthene | ND | 5500 | ug/kg | 1100 |
| Benzo (k) fluoranthene | ND | 5500 | ug/kg | 1200 |
| Benzo (a) pyrene | ND | 5500 | ug/kg | 1500 |
| Indeno (1,2,3-cd) pyrene | ND | 5500 | ug/kg | 300 |
| Dibenzo (a,h) anthracene | ND | 5500 | ug/kg | 1200 |
| Benzo (ghi) perylene | ND | 5500 | ug/kg | 410 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E280323-002 | Work Order #... : LDXDN1AC | Matrix..... : SOLID |
| Date Sampled... : 05/27/09 10:50 | Date Received... : 05/28/09 09:50 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 11:28 | |
| Dilution Factor: 50 | Initial Wgt/Vol: 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 35 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|----------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 3800 | 510 | ug/kg | 77 |
| 2-Methylnaphthalene | 9800 | 510 | ug/kg | 100 |
| Naphthalene | 130000 E | 510 | ug/kg | 74 |
| Acenaphthylene | 3100 | 510 | ug/kg | 100 |
| Acenaphthene | 750 | 510 | ug/kg | 82 |
| Fluorene | 2500 | 510 | ug/kg | 77 |
| Phenanthrene | 2700 | 510 | ug/kg | 61 |
| Anthracene | 440 J | 2500 | ug/kg | 90 |
| Fluoranthene | 630 | 510 | ug/kg | 43 |
| Pyrene | 490 J | 510 | ug/kg | 140 |
| Benzo (a) anthracene | 200 J | 510 | ug/kg | 82 |
| Chrysene | 210 J | 510 | ug/kg | 89 |
| Benzo (b) fluoranthene | 110 J | 510 | ug/kg | 100 |
| Benzo (k) fluoranthene | ND | 510 | ug/kg | 110 |
| Benzo (a) pyrene | ND | 510 | ug/kg | 140 |
| Indeno (1,2,3-cd) pyrene | ND | 510 | ug/kg | 28 |
| Dibenzo (a,h) anthracene | ND | 510 | ug/kg | 110 |
| Benzo (ghi) perylene | ND | 510 | ug/kg | 38 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14 DL

GC/MS Semivolatiles

| | | |
|---------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E280323-002 | Work Order #....: LDXDN2AC | Matrix.....: SOLID |
| Date Sampled...: 05/27/09 10:50 | Date Received...: 05/28/09 09:50 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 18:22 | |
| Dilution Factor: 200 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 35 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 3900 | 2100 | ug/kg | 310 |
| 2-Methylnaphthalene | 9600 | 2100 | ug/kg | 400 |
| Naphthalene | 130000 | 2100 | ug/kg | 300 |
| Acenaphthylene | 3200 | 2100 | ug/kg | 410 |
| Acenaphthene | 700 J | 2100 | ug/kg | 330 |
| Fluorene | 2500 | 2100 | ug/kg | 310 |
| Phenanthrene | 2500 | 2100 | ug/kg | 240 |
| Anthracene | ND | 10000 | ug/kg | 360 |
| Fluoranthene | 640 J | 2100 | ug/kg | 170 |
| Pyrene | 560 J | 2100 | ug/kg | 540 |
| Benzo (a) anthracene | ND | 2100 | ug/kg | 330 |
| Chrysene | ND | 2100 | ug/kg | 360 |
| Benzo (b) fluoranthene | ND | 2100 | ug/kg | 410 |
| Benzo (k) fluoranthene | ND | 2100 | ug/kg | 430 |
| Benzo (a) pyrene | ND | 2100 | ug/kg | 570 |
| Indeno (1,2,3-cd) pyrene | ND | 2100 | ug/kg | 110 |
| Dibenzo (a,h) anthracene | ND | 2100 | ug/kg | 450 |
| Benzo (ghi) perylene | ND | 2100 | ug/kg | 150 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9E280323-003 | Work Order #... : LDXDR1AC | Matrix..... : SOLID |
| Date Sampled... : 05/27/09 10:45 | Date Received... : 05/28/09 09:50 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 11:48 | |
| Dilution Factor: 50 | Initial Wgt/Vol: 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 38 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------|--------------------|-------|-----|
| 1-Methylnaphthalene | 4400 | 540 | ug/kg | 82 |
| 2-Methylnaphthalene | 11000 | 540 | ug/kg | 110 |
| Naphthalene | 150000 E | 540 | ug/kg | 78 |
| Acenaphthylene | 3700 | 540 | ug/kg | 110 |
| Acenaphthene | 840 | 540 | ug/kg | 87 |
| Fluorene | 2800 | 540 | ug/kg | 81 |
| Phenanthrene | 3200 | 540 | ug/kg | 64 |
| Anthracene | 540 J | 2700 | ug/kg | 95 |
| Fluoranthene | 1200 | 540 | ug/kg | 46 |
| Pyrene | 890 | 540 | ug/kg | 140 |
| Benzo (a) anthracene | 510 J | 540 | ug/kg | 86 |
| Chrysene | 510 J | 540 | ug/kg | 94 |
| Benzo (b) fluoranthene | 370 J | 540 | ug/kg | 110 |
| Benzo (k) fluoranthene | ND | 540 | ug/kg | 110 |
| Benzo (a) pyrene | 450 J | 540 | ug/kg | 150 |
| Indeno (1,2,3-cd) pyrene | 230 J | 540 | ug/kg | 30 |
| Dibenzo (a,h) anthracene | ND | 540 | ug/kg | 120 |
| Benzo (ghi) perylene | 190 J | 540 | ug/kg | 40 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20 *DL*

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E280323-003 | Work Order #....: LDXDR2AC | Matrix.....: SOLID |
| Date Sampled....: 05/27/09 10:45 | Date Received...: 05/28/09 09:50 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 18:41 | |
| Dilution Factor: 250 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 38 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3400 | 2700 | ug/kg | 410 |
| 2-Methylnaphthalene | 8400 | 2700 | ug/kg | 530 |
| Naphthalene | 120000 | 2700 | ug/kg | 390 |
| Acenaphthylene | 3100 | 2700 | ug/kg | 540 |
| Acenaphthene | 690 J | 2700 | ug/kg | 430 |
| Fluorene | 2300 J | 2700 | ug/kg | 410 |
| Phenanthrene | 2300 J | 2700 | ug/kg | 320 |
| Anthracene | ND | 13000 | ug/kg | 470 |
| Fluoranthene | 940 J | 2700 | ug/kg | 230 |
| Pyrene | 810 J | 2700 | ug/kg | 720 |
| Benzo (a) anthracene | ND | 2700 | ug/kg | 430 |
| Chrysene | ND | 2700 | ug/kg | 470 |
| Benzo (b) fluoranthene | ND | 2700 | ug/kg | 550 |
| Benzo (k) fluoranthene | ND | 2700 | ug/kg | 560 |
| Benzo (a) pyrene | ND | 2700 | ug/kg | 760 |
| Indeno (1,2,3-cd) pyrene | ND | 2700 | ug/kg | 150 |
| Dibenzo (a,h) anthracene | ND | 2700 | ug/kg | 590 |
| Benzo (ghi) perylene | ND | 2700 | ug/kg | 200 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: SRM

GC/MS Semivolatiles

| | | |
|--|--|----------------------------------|
| Lot-Sample #... : C9E280323-004 | Work Order #... : LDX1G1AA | Matrix..... : SOLID |
| Date Sampled... : 05/27/09 | Date Received... : 05/28/09 09:50 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 19:01 | |
| Dilution Factor: 45 | Initial Wgt/Vol: 5 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 280 J | 300 | ug/kg | 45 |
| 2-Methylnaphthalene | 400 | 300 | ug/kg | 59 |
| Naphthalene | 770 | 300 | ug/kg | 44 |
| Acenaphthylene | 1200 | 300 | ug/kg | 60 |
| Acenaphthene | 270 J | 300 | ug/kg | 48 |
| Fluorene | 360 | 300 | ug/kg | 45 |
| Phenanthrene | 4100 | 300 | ug/kg | 36 |
| Anthracene | 1100 J | 1500 | ug/kg | 53 |
| Fluoranthene | 7900 | 300 | ug/kg | 25 |
| Pyrene | 6400 | 300 | ug/kg | 80 |
| Benzo (a) anthracene | 3700 | 300 | ug/kg | 48 |
| Chrysene | 4900 | 300 | ug/kg | 52 |
| Benzo (b) fluoranthene | 2900 | 300 | ug/kg | 61 |
| Benzo (k) fluoranthene | 2600 | 300 | ug/kg | 63 |
| Benzo (a) pyrene | 3000 | 300 | ug/kg | 84 |
| Indeno (1,2,3-cd) pyrene | 2100 | 300 | ug/kg | 17 |
| Dibenzo (a,h) anthracene | 640 | 300 | ug/kg | 66 |
| Benzo (ghi) perylene | 2600 | 300 | ug/kg | 22 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E280323

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B05-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-B05-8 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B05-14 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | BP-SO-B05-14 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B05-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | BP-SO-B05-20 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 07 | SRM | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | INTRA-LAB QC | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 09 | METHOD BLK. LD39D1AA | 82 | 84 | 74 | 81 | 83 | 76 | 00 |
| 10 | LCS LD39D1AC | 90 | 81 | 83 | 92 | 93 | 88 | 00 |
| 11 | LAB MS/MSD D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 12 | LAB MS/MSD S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F010000

WO #: LD39D1AC

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 312 | 94 | 39 - 105 | |
| 2-Chlorophenol | 333 | 276 | 83 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 267 | 80 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 288 | 86 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 264 | 79 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 284 | 85 | 43 - 110 | |
| Acenaphthene | 333 | 274 | 82 | 42 - 104 | |
| 4-Nitrophenol | 333 | 324 | 97 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 305 | 92 | 48 - 118 | |
| Pentachlorophenol | 333 | 267 | 80 | 18 - 125 | |
| Pyrene | 333 | 255 | 76 | 39 - 113 | |
| 4-Methylphenol | 667 | 579 | 87 | 43 - 107 | |
| Hexachloroethane | 333 | 272 | 82 | 40 - 102 | |
| Naphthalene | 333 | 273 | 82 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 266 | 80 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 270 | 81 | 40 - 117 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E280323

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|--------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 769.99 | ug/Kg | 46.67 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 4105.30 | ug/Kg | 77.90 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 1079.20 | ug/Kg | 60.97 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 7853.60 | ug/Kg | 88.04 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 6399.00 | ug/Kg | 65.97 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 3698.00 | ug/Kg | 78.35 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 4899.80 | ug/Kg | 100.82 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2883.60 | ug/Kg | 74.51 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 2587.00 | ug/Kg | 112.48 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 3001.80 | ug/Kg | 69.81 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 2579.00 | ug/Kg | 90.81 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 2086.80 | ug/Kg | 75.06 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E300194

WO #: LD3R81AV

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | 130 | | 0* | 39 - 105 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 610 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 1400 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | 77 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 34000 | | 0* | 42 - 104 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E300194

WO #: LD3R81AW

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LD39D1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0601001.

Lot Number: C9E280323

Date Analyzed: 06/01/09

Time Analyzed: 08:28

Matrix: SOLID

Date Extracted:06/01/09

GC Column: ID: .00

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|--------------------|------------------------|----------------|------------------|------------------|
| ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B05-8 | LDXDC1AC | N0601009. | 06/01/09 | 11:08 |
| 02 BP-SO-B05-8 DL | LDXDC2AC | N0601030. | 06/01/09 | 18:02 |
| 03 BP-SO-B05-14 | LDXDN1AC | N0601010. | 06/01/09 | 11:28 |
| 04 BP-SO-B05-14 DL | LDXDN2AC | N0601031. | 06/01/09 | 18:22 |
| 05 BP-SO-B05-20 | LDXDR1AC | N0601011. | 06/01/09 | 11:48 |
| 06 BP-SO-B05-20 DL | LDXDR2AC | N0601032. | 06/01/09 | 18:41 |
| 07 SRM | LDX1G1AA | N0601033. | 06/01/09 | 19:01 |
| 08 INTRA-LAB QC | LD3R81AC | N0601004. | 06/01/09 | 10:08 |
| 09 LAB MS/MSD | LD3R81AV S | N0601005. | 06/01/09 | 12:47 |
| 10 LAB MS/MSD | LD3R81AW D | N0601006. | 06/01/09 | 13:07 |
| 11 CHECK SAMPLE | LD39D1AC C | N0601002. | 06/01/09 | 09:08 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9E280323
MB Lot-Sample #: C9F010000-011

Work Order #...: LD39D1AA

Matrix.....: SOLID

Analysis Date...: 06/01/09
Dilution Factor: 0.5

Prep Date.....: 06/01/09
Prep Batch #...: 9152011
Initial Wgt/Vol: 30 g
Analyst ID.....: 003200

Analysis Time...: 08:28
Final Wgt/Vol...: 0.5 mL
Instrument ID...: 733

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|--------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 84 | (21 - 130) |
| 2-Fluorobiphenyl | 74 | (28 - 108) |
| 2-Fluorophenol | 81 | (28 - 107) |
| Phenol-d5 | 83 | (30 - 112) |
| 2,4,6-Tribromophenol | 76 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E280323
 Lab File ID (Standard): N06010CC Date Analyzed: 06/01/09
 Instrument ID: 733 Time Analyzed: 0809

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 132269 | 4.42 | 535862 | 5.39 | 317857 | 6.73 |
| UPPER LIMIT | 264538 | 4.92 | 1071724 | 5.89 | 635714 | 7.23 |
| LOWER LIMIT | 66135 | 3.92 | 267931 | 4.89 | 158929 | 6.23 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 132510 | 4.42 | 523256 | 5.39 | 316892 | 6.72 |
| 02 INTRA-LAB CH | 116338 | 4.43 | 461325 | 5.40 | 273352 | 6.73 |
| 03 BP-SO-B05-8 | 110393 | 4.42 | 452065 | 5.39 | 277827 | 6.72 |
| 04 BP-SO-B05-14 | 120982 | 4.42 | 490951 | 5.39 | 295852 | 6.72 |
| 05 BP-SO-B05-20 | 111771 | 4.42 | 451038 | 5.39 | 268776 | 6.73 |
| 06 BP-SO-B05-8 | 118716 | 4.43 | 455413 | 5.39 | 266957 | 6.72 |
| 07 BP-SO-B05-14 | 119016 | 4.42 | 449109 | 5.39 | 271100 | 6.72 |
| 08 BP-SO-B05-20 | 125695 | 4.42 | 486945 | 5.39 | 283643 | 6.72 |
| 09 SRM | 113802 | 4.42 | 442120 | 5.39 | 274242 | 6.72 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9E280323
Lab File ID (Standard): N06010CC Date Analyzed: 06/01/09
Instrument ID: 733 Time Analyzed: 0809

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 520490 | 7.86 | 420954 | 9.89 | 320324 | 11.19 |
| UPPER LIMIT | 1040980 | 8.36 | 841908 | 10.39 | 640648 | 11.69 |
| LOWER LIMIT | 260245 | 7.36 | 210477 | 9.39 | 160162 | 10.69 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 510774 | 7.85 | 376050 | 9.88 | 296277 | 11.17 |
| 02 INTRA-LAB CH | 448839 | 7.86 | 384207 | 9.89 | 287714 | 11.19 |
| 03 BP-SO-B05-8 | 457634 | 7.86 | 380094 | 9.88 | 315203 | 11.17 |
| 04 BP-SO-B05-14 | 483138 | 7.85 | 390438 | 9.88 | 327485 | 11.17 |
| 05 BP-SO-B05-20 | 440437 | 7.86 | 358845 | 9.88 | 295406 | 11.18 |
| 06 BP-SO-B05-8 | 438684 | 7.85 | 363163 | 9.88 | 308470 | 11.17 |
| 07 BP-SO-B05-14 | 438334 | 7.85 | 363038 | 9.88 | 311065 | 11.18 |
| 08 BP-SO-B05-20 | 480329 | 7.85 | 380738 | 9.87 | 311421 | 11.16 |
| 09 SRM | 460909 | 7.85 | 416646 | 9.88 | 373984 | 11.18 |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9E280323-001

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 10

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9149297 | | | | | | |
| Silver | 0.078 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0013 | |
| Arsenic | 2.0 E | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0092 | |
| Beryllium | 3.1 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0021 | |
| Cadmium | 0.33 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0051 | |
| Chromium | 7.5 J,E | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0044 | |
| Copper | 19.0 | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0047 | |
| Nickel | 2.4 E | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0038 | |
| Lead | 9.2 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0019 | |
| Antimony | 0.11 | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0018 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9E280323-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.3 E | 0.28 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.023 | |
| Thallium | 0.0061 B | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0011 | |
| Zinc | 34.8 J | 0.28 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |

Prep Batch #...: 9153013

| | | | | | | |
|----------------|------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 2.5 | 0.092 | mg/kg | SW846 7471A | 06/02/09 | LDXDC1AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 09:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.030 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

TOTAL Metals

Lot-Sample #...: C9E280323-002

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 35

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.14 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0018 | |
| Arsenic | 2.1 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.013 | |
| Beryllium | 4.2 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0028 | |
| Cadmium | 0.46 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0070 | |
| Chromium | 1.9 J | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0061 | |
| Copper | 13.2 | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |
| Nickel | 1.1 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0052 | |
| Lead | 4.6 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0026 | |
| Antimony | 0.085 B | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0025 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

TOTAL Metals

Lot-Sample #....: C9E280323-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.1 | 0.38 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.031 | |
| Thallium | 0.019 B | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0015 | |
| Zinc | 2.6 J | 0.38 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0090 | |

Prep Batch #....: 9153013

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.033 | 0.025 | mg/kg | SW846 7471A | 06/02/09 | LDXDN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:26 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0084 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9E280323-003

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 38

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.13 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0019 | |
| Arsenic | 1.6 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.013 | |
| Beryllium | 4.3 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0030 | |
| Cadmium | 0.53 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0074 | |
| Chromium | 4.0 J | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |
| Copper | 16.2 | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0069 | |
| Nickel | 1.6 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0055 | |
| Lead | 13.9 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0028 | |
| Antimony | 0.27 | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0027 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9E280323-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Selenium | 2.4 | 0.40 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.033 | |
| Thallium | 0.021 B | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0016 | |
| Zinc | 12.9 J | 0.40 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0095 | |

Prep Batch #...: 9153013

| | | | | | | |
|----------------|-------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.10 | 0.027 | mg/kg | SW846 7471A | 06/02/09 | LDXDR1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:28 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0088 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E280323-004

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....:

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|---------------------------------|----------------|----------------------------------|--------------|-------------------------|---|-------------------------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.057 B | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AP |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0024 | |
| Arsenic | 4.5 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AC |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.016 | |
| Beryllium | 0.30 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AD |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0037 | |
| Cadmium | 0.25 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AE |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0091 | |
| Chromium | 19.7 J | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AF |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0080 | |
| Copper | 8.6 | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AG |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0085 | |
| Nickel | 17.1 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AH |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0068 | |
| Lead | 7.6 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AJ |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0034 | |
| Antimony | 0.10 B | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AK |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0033 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E280323-004

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.045 B | 0.50 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AL |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.041 | |
| Thallium | 0.086 B | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AM |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0020 | |
| Zinc | 29.0 J | 0.50 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AN |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.012 | |
| Prep Batch #...: 9153013 | | | | | | |
| Mercury | 0.032 B | 0.033 | mg/kg | SW846 7471A | 06/02/09 | LDX1G1AQ |
| | | Dilution Factor: 1 | | Analysis Time...: 08:29 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.011 | |

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|----------------|-------------------------|--------------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9E290000-297 Prep Batch #...: 9149297 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.096 B | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 17:56 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------------|---------|-------------------------|-------|-----------------------|-------------------------------|-----------------|
| Zinc | 0.020 B | 0.25 | mg/kg | SW846 6020 | 05/29-06/03/09 | LD0161AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 17:56 | | Analyst ID.....: 400149 | | Instrument ID...: ICP | | |

MB Lot-Sample #: C9F020000-013 Prep Batch #...: 9153013

| | | | | | | |
|-------------------------|----|-------------------------|-------|-----------------------|----------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/02/09 | LD5N61AA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 08:21 | | Analyst ID.....: 031043 | | Instrument ID...: HGH | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9E290000-297 Prep Batch #... : 9149297 | | | | | |
| Arsenic | 85 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AP | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 94 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AQ | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 94 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AR | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 108 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AT | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 98 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AU | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 101 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AV | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 99 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AW | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 94 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161AX | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 93 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161A0 | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 95 | (80 - 120) | SW846 6020 | 05/29-06/03/09 LD0161A1 | |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9E280323

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|-------------|-------------------------------|--------------|
| Zinc | 89 | (80 - 120) | SW846 6020 | 05/29-06/03/09 | LD0161A2 |
| Dilution Factor: 0.5 Analysis Time...: 18:00 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Silver | 101 | (80 - 120) | SW846 6020 | 05/29-06/03/09 | LD0161A3 |
| Dilution Factor: 0.5 Analysis Time...: 18:00 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| LCS Lot-Sample#: C9F020000-013 Prep Batch #....: 9153013 | | | | | |
| Mercury | 96 | (80 - 120) | SW846 7471A | 06/02/09 | LD5N61AC |
| Dilution Factor: 0.5 Analysis Time...: 08:23 Analyst ID.....: 031043 | | | | | |
| Instrument ID...: HGHYDRA | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9E290000-297 Prep Batch #...: 9149297 | | | | | | | |
| Arsenic | 2.00 | 1.69 | mg/kg | 85 | SW846 6020 | 05/29-06/03/09 | LD0161AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.34 | mg/kg | 94 | SW846 6020 | 05/29-06/03/09 | LD0161AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.34 | mg/kg | 94 | SW846 6020 | 05/29-06/03/09 | LD0161AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.8 | mg/kg | 108 | SW846 6020 | 05/29-06/03/09 | LD0161AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 12.3 | mg/kg | 98 | SW846 6020 | 05/29-06/03/09 | LD0161AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 25.4 | mg/kg | 101 | SW846 6020 | 05/29-06/03/09 | LD0161AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 0.986 | mg/kg | 99 | SW846 6020 | 05/29-06/03/09 | LD0161AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.5 | mg/kg | 94 | SW846 6020 | 05/29-06/03/09 | LD0161AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.466 | mg/kg | 93 | SW846 6020 | 05/29-06/03/09 | LD0161A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Thallium | 2.50 | 2.39 | mg/kg | 95 | SW846 6020 | 05/29-06/03/09 | LD0161A1 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E280323

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| Zinc | 25.0 | 22.1 | mg/kg | 89 | SW846 6020 | 05/29-06/03/09 | LD0161A2 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Silver | 2.50 | 2.53 | mg/kg | 101 | SW846 6020 | 05/29-06/03/09 | LD0161A3 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:00 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

LCS Lot-Sample#: C9F020000-013 Prep Batch #....: 9153013

| | | | | | | | |
|---------|-------|-------|-------|---------------------------|-------------------------|-------------------------|----------|
| Mercury | 0.208 | 0.200 | mg/kg | 96 | SW846 7471A | 06/02/09 | LD5N61AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 08:23 | Analyst ID.....: 031043 | |
| | | | | Instrument ID...: HGHYDRA | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-----|------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9E280323-001 Prep Batch #...: 9149297 | | | | | | | |
| | | | | | | % Moisture.....: 10 | |
| Antimony | 35 N | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CD |
| | 32 N | (75 - 125) | 8.9 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CE |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Arsenic | 60 N | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1AW |
| | 78 | (75 - 125) | 11 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1AX |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Beryllium | 94 | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1A0 |
| | 91 | (75 - 125) | 1.6 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1A1 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Cadmium | 83 | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1A2 |
| | 77 | (75 - 125) | 7.0 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1A3 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Chromium | 72 N | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1A4 |
| | 152 N,* | (75 - 125) | 44 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1A5 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Copper | 74 N | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1A6 |
| | 110 | (75 - 125) | 16 | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1A7 |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |
| Lead | NC | (75 - 125) | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CA |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CC |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

| | PERCENT | RECOVERY | RPD | | PREPARATION- | WORK |
|-----------|----------|-------------------------|------------|--------------------------|-------------------------|----------|
| PARAMETER | RECOVERY | LIMITS | LIMITS | METHOD | ANALYSIS DATE | ORDER # |
| Nickel | 65 N | (75 - 125) | | SW846 6020 | 05/29-06/03/09 | LDXDC1A8 |
| | 64 N | (75 - 125) | 1.2 (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1A9 |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9149186 | | | | |
| Selenium | NC | (75 - 125) | | SW846 6020 | 05/29-06/03/09 | LDXDC1CF |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9149186 | | | | |
| Silver | 77 | (75 - 125) | | SW846 6020 | 05/29-06/03/09 | LDXDC1CM |
| | 70 N | (75 - 125) | 8.9 (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9149186 | | | | |
| Thallium | 90 | (75 - 125) | | SW846 6020 | 05/29-06/03/09 | LDXDC1CH |
| | 85 | (75 - 125) | 5.5 (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9149186 | | | | |
| Zinc | 23 N | (75 - 125) | | SW846 6020 | 05/29-06/03/09 | LDXDC1CK |
| | 39 N | (75 - 125) | 10 (0-20) | SW846 6020 | 05/29-06/03/09 | LDXDC1CL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9149186 | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E280323

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E280323-001 Prep Batch #....: 9149297

% Moisture.....: 10

Antimony

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 0.11 | 27.8 | 9.76 N | mg/kg | 35 | | SW846 6020 | 05/29-06/03/09 | LDXDC1CD |
| 0.11 | 27.8 | 8.93 N | mg/kg | 32 | 8.9 | SW846 6020 | 05/29-06/03/09 | LDXDC1CE |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

Arsenic

| | | | | | | | | |
|--|------|--------|-------|----|----|------------|----------------|----------|
| 2.0 | 2.22 | 3.38 N | mg/kg | 60 | | SW846 6020 | 05/29-06/03/09 | LDXDC1AW |
| 2.0 | 2.22 | 3.79 | mg/kg | 78 | 11 | SW846 6020 | 05/29-06/03/09 | LDXDC1AX |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

Beryllium

| | | | | | | | | |
|--|------|------|-------|----|-----|------------|----------------|----------|
| 3.1 | 2.78 | 5.72 | mg/kg | 94 | | SW846 6020 | 05/29-06/03/09 | LDXDC1A0 |
| 3.1 | 2.78 | 5.64 | mg/kg | 91 | 1.6 | SW846 6020 | 05/29-06/03/09 | LDXDC1A1 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

Cadmium

| | | | | | | | | |
|--|------|------|-------|----|-----|------------|----------------|----------|
| 0.33 | 2.78 | 2.65 | mg/kg | 83 | | SW846 6020 | 05/29-06/03/09 | LDXDC1A2 |
| 0.33 | 2.78 | 2.47 | mg/kg | 77 | 7.0 | SW846 6020 | 05/29-06/03/09 | LDXDC1A3 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

Chromium

| | | | | | | | | |
|--|------|--------|-------|-----|----|------------|----------------|----------|
| 7.5 | 11.1 | 15.5 N | mg/kg | 72 | | SW846 6020 | 05/29-06/03/09 | LDXDC1A4 |
| 7.5 | 11.1 | 24.4 | mg/kg | 152 | 44 | SW846 6020 | 05/29-06/03/09 | LDXDC1A5 |
| Qualifiers: N,* | | | | | | | | |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

Copper

| | | | | | | | | |
|--|------|--------|-------|-----|----|------------|----------------|----------|
| 19.0 | 13.9 | 29.3 N | mg/kg | 74 | | SW846 6020 | 05/29-06/03/09 | LDXDC1A6 |
| 19.0 | 13.9 | 34.2 | mg/kg | 110 | 16 | SW846 6020 | 05/29-06/03/09 | LDXDC1A7 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 18:27 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9149186 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|-------|--------------------------|-----|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 9.2 | 1.11 | 21.6 NC | mg/kg | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CA |
| | 9.2 | 1.11 | 16.0 NC | mg/kg | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CC |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |
| Nickel | | | | | | | | | |
| | 2.4 | 27.8 | 20.4 N | mg/kg | 65 | | SW846 6020 | 05/29-06/03/09 | LDXDC1A8 |
| | 2.4 | 27.8 | 20.2 N | mg/kg | 64 | 1.2 | SW846 6020 | 05/29-06/03/09 | LDXDC1A9 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |
| Selenium | | | | | | | | | |
| | 3.3 | 0.556 | 3.83 NC | mg/kg | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CF |
| | 3.3 | 0.556 | 3.40 NC | mg/kg | | | SW846 6020 | 05/29-06/03/09 | LDXDC1CG |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |
| Silver | | | | | | | | | |
| | 0.078 | 2.78 | 2.21 | mg/kg | 77 | | SW846 6020 | 05/29-06/03/09 | LDXDC1CM |
| | 0.078 | 2.78 | 2.03 N | mg/kg | 70 | 8.9 | SW846 6020 | 05/29-06/03/09 | LDXDC1CN |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.0061 | 2.78 | 2.51 | mg/kg | 90 | | SW846 6020 | 05/29-06/03/09 | LDXDC1CH |
| | 0.0061 | 2.78 | 2.37 | mg/kg | 85 | 5.5 | SW846 6020 | 05/29-06/03/09 | LDXDC1CJ |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |
| Zinc | | | | | | | | | |
| | 34.8 | 27.8 | 41.2 N | mg/kg | 23 | | SW846 6020 | 05/29-06/03/09 | LDXDC1CK |
| | 34.8 | 27.8 | 45.6 N | mg/kg | 39 | 10 | SW846 6020 | 05/29-06/03/09 | LDXDC1CL |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 18:27 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9149186 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E280323

Date Sampled...: 05/29/09

Date Received...: 05/30/09

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9E300194-001 Prep Batch #...: 9153013

% Moisture.....: 14

| | | | | | | |
|----------|----|------------|-----------|-------------|----------|----------|
| Mercury | 85 | (75 - 125) | | SW846 7471A | 06/02/09 | LD3R61CN |
| 132 N, * | | (75 - 125) | 25 (0-20) | SW846 7471A | 06/02/09 | LD3R61CP |

Dilution Factor: 0.5

Analysis Time...: 08:33 Instrument ID...: HGHYDRA Analyst ID.....: 031043

MS Run #.....: 9153005

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E280323

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9E300194-001 Prep Batch #...: 9153013

% Moisture.....: 14

Mercury

| | | | | | | | | | |
|-------|--------|-------|-------|-----|----|--|-------------|----------|----------|
| 0.075 | 0.0966 | 0.157 | mg/kg | 85 | | | SW846 7471A | 06/02/09 | LD3R61CN |
| 0.075 | 0.0966 | 0.203 | mg/kg | 132 | 25 | | SW846 7471A | 06/02/09 | LD3R61CP |

Qualifiers: N,*

Dilution Factor: 0.5

Analysis Time...: 08:33

Instrument ID...: HGHYDRA

Analyst ID.....: 031043

MS Run #.....: 9153005

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9E280323

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B05-8 | C9E280323 001 | LDXDC1AT | 43.9 | mg/kg | 0.96 | 5.6 | 10 | 6/3/2009 - 6/3/2009 15:53 | 9154107 |
| BP-SO-B05-14 | C9E280323 002 | LDXDN1AT | 53.9 | mg/kg | 1.3 | 7.7 | 10 | 6/3/2009 - 6/3/2009 15:54 | 9154107 |
| BP-SO-B05-20 | C9E280323 003 | LDXDR1AT | 31.4 | mg/kg | 0.14 | 0.81 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9E280323

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B05-8 | C9E280323 001 | LDXDC1AA | 90.0 | % | 0.0 | 1.0 | 1 | 5/29/2009 - 5/30/2009 00:00 | 9149330 |
| BP-SO-B05-14 | C9E280323 002 | LDXDN1AA | 65.1 | % | 0.0 | 1.0 | 1 | 5/29/2009 - 5/30/2009 00:00 | 9149330 |
| BP-SO-B05-20 | C9E280323 003 | LDXDR1AA | 61.8 | % | 0.0 | 1.0 | 1 | 5/29/2009 - 5/30/2009 00:00 | 9149330 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9E280323

Matrix: SOLID

Date/Time Received: 6/2/2009 9:30:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F030000107B | 107 MB | LD7LC1AA | ND | mg/kg | 0.50 | 6/3/2009 - 6/3/2009 15:27 | 9154107 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E280323

Matrix: SOLID

Date/Time Received: 5/28/2009 9:40:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LDWMJ1AG | 52.4 | % | 1.0 | 5/29/2009 - 5/30/2009 00:00 | 9149330 | 16 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F030000

Matrix: SOLID

Date/Time Received: 6/2/2009 9:30:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LD7LC1AC | 97 | 38 - 162 | 6/3/2009 - 6/3/2009 15:27 | 9154107 | |
| LAB MS/MSD | MS | LDX8W1DH | 100 | 85 - 115 | 6/3/2009 - 6/3/2009 16:06 | 9154107 | 0.90 / 20 |
| LAB MS/MSD | MS | LD60E1CK | 87 | 85 - 115 | 6/3/2009 - 6/3/2009 16:12 | 9154107 | 5.6 / 20 |
| LAB MS/MSD | MSD | LDX8W1DJ | 101 | 85 - 115 | 6/3/2009 - 6/3/2009 16:06 | 9154107 | 0.90 / 20 |
| LAB MS/MSD | MSD | LD60E1CL | 92 | 85 - 115 | 6/3/2009 - 6/3/2009 16:12 | 9154107 | 5.6 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E280323

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B05-8 | C9E280323-001 | Soil |
| 2 | BP-SO-B05-14 | C9E280323-002 | Soil |
| 3 | BP-SO-B05-20 | C9E280323-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - No discrepancies were identified.

MES Sparrows Point 18001868

Cyanide, Total

1-3

Lab Name: TESTAMERICA PITTSBURGH

Method:

SW846 9012A

Client Name: Maryland Environmental Service

Lot Number:

C9E280323

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B05-8 | C9E280323 001 | LDXDC1AT | 43.9 | mg/kg | 0.96 | 5.6 | 10 | 6/3/2009 - 6/3/2009 15:53 | 9154107 |
| BP-SO-B05-14 | C9E280323 002 | LDXDN1AT | 53.9 | mg/kg | 1.3 | 7.7 | 10 | 6/3/2009 - 6/3/2009 15:54 | 9154107 |
| BP-SO-B05-20 | C9E280323 003 | LDXDR1AT | 31.4 | mg/kg | 0.14 | 0.81 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |


 8/10/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E280323

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B05-8 | C9E280323-001 | Soil |
| 1MS | BP-SO-B05-8MS | C9E280323-001MS | Soil |
| 1MSD | BP-SO-B05-8MSD | C9E280323-001MSD | Soil |
| 2 | BP-SO-B05-14 | C9E280323-002 | Soil |
| 3 | BP-SO-B05-20 | C9E280323-003 | Soil |
| 4 | SRM | C9E280323-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|-----------------------------|
| 1 | Antimony | 35%/32%/Ok | L/UL | All samples |
| | Arsenic | 60%/Ok/Ok | None | Already qualified due to SD |
| | Chromium | 72%/152%/44 | None | Already qualified due to SD |
| | Copper | 74%/Ok/Ok | L/UL | All samples |
| | Nickel | 65%/64%/Ok | None | Already qualified due to SD |
| | Silver | Ok/70%/Ok | L/UL | All samples |
| | Zinc | 23%/39%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 1 | Arsenic | 10.8% | J | All samples |
| | Chromium | 12.7% | J | All samples |
| | Nickel | 19.0% | J | All samples |
| | Selenium | 11.6% | J | All samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

TOTAL Metals

Lot-Sample #....: C9E280323-001

Matrix.....: SOLID

Date Sampled....: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 10

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9149297 | | | | | | |
| Silver | 0.078 <i>L</i> | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0013 | |
| Arsenic | 2.0 <i>J</i> | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0092 | |
| Beryllium | 3.1 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0021 | |
| Cadmium | 0.33 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0051 | |
| Chromium | 7.5 <i>J</i> | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0044 | |
| Copper | 19.0 <i>L</i> | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0047 | |
| Nickel | 2.4 <i>J</i> | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0038 | |
| Lead | 9.2 | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0019 | |
| Antimony | 0.11 <i>L</i> | 0.11 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0018 | |

(Continued on next page)

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8/10/09

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9E280323-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.3 <i>FS</i> | 0.28 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.023 | |
| Thallium | 0.0061 <i>FS</i> | 0.056 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0011 | |
| Zinc | 34.8 <i>FL</i> | 0.28 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDC1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:18 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |

Prep Batch #...: 9153013

| | | | | | | |
|---------|-----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 2.5 | 0.092 | mg/kg | SW846 7471A | 06/02/09 | LDXDC1AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 09:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.030 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

hw
8/10/09

Maryland Environmental Service

2

Client Sample ID: BP-SO-B05-14

TOTAL Metals

Lot-Sample #...: C9E280323-002

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 35

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.14 L | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0018 | |
| Arsenic | 2.1 J | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.013 | |
| Beryllium | 4.2 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0028 | |
| Cadmium | 0.46 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0070 | |
| Chromium | 1.9 J J | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0061 | |
| Copper | 13.2 L | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |
| Nickel | 1.1 J | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0052 | |
| Lead | 4.6 | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0026 | |
| Antimony | 0.085 J L | 0.15 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0025 | |

(Continued on next page)

WJ
8/10/09

Maryland Environmental Service

2

Client Sample ID: BP-SO-B05-14

TOTAL Metals

Lot-Sample #...: C9E280323-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.1 J | 0.38 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.031 | |
| Thallium | 0.019 B J | 0.077 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0015 | |
| Zinc | 2.6 JL | 0.38 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDN1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0090 | |
| Prep Batch #... | 9153013 | | | | | |
| Mercury | 0.033 | 0.025 | mg/kg | SW846 7471A | 06/02/09 | LDXDN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:26 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0084 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

LW
8/10/09

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9E280323-003

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....: 38

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.13 L | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0019 | |
| Arsenic | 1.6 J | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.013 | |
| Beryllium | 4.3 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0030 | |
| Cadmium | 0.53 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0074 | |
| Chromium | 4.0 J J | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0065 | |
| Copper | 16.2 L | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0069 | |
| Nickel | 1.6 J | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0055 | |
| Lead | 13.9 | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0028 | |
| Antimony | 0.27 L | 0.16 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0027 | |

(Continued on next page)

lew
8/10/09

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

TOTAL Metals

Lot-Sample #....: C9E280323-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 2.4 J | 0.40 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.033 | |
| Thallium | 0.021 J | 0.081 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0016 | |
| Zinc | 12.9 J L | 0.40 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDXDR1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 18:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0095 | |

Prep Batch #....: 9153013

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.10 | 0.027 | mg/kg | SW846 7471A | 06/02/09 | LDXDR1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:28 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0088 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

hw
8/10/09

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E280323-004

Matrix.....: SOLID

Date Sampled...: 05/27/09

Date Received...: 05/28/09

% Moisture.....:

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #...: 9149297 | | | | | | |
| Silver | 0.057 <i>PL</i> | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AP |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0024 |
| Arsenic | 4.5 <i>J</i> | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AC |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.016 |
| Beryllium | 0.30 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AD |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0037 |
| Cadmium | 0.25 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AE |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0091 |
| Chromium | 19.7 <i>J J</i> | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AF |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0080 |
| Copper | 8.6 <i>L</i> | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AG |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0085 |
| Nickel | 17.1 <i>J</i> | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AH |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0068 |
| Lead | 7.6 | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AJ |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0034 |
| Antimony | 0.10 <i>PL</i> | 0.20 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AK |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | | MDL.....: 0.0033 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: SRM

TOTAL Metals

Lot-Sample #...: C9E280323-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.045 <i>B J</i> | 0.50 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AL |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.041 | |
| Thallium | 0.086 <i>B J</i> | 0.10 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AM |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.0020 | |
| Zinc | 29.0 <i>J L</i> | 0.50 | mg/kg | SW846 6020 | 05/29-06/03/09 | LDX1G1AN |
| | | Dilution Factor: 1 | | Analysis Time...: 18:44 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9149186 | MDL.....: 0.012 | |

Prep Batch #...: 9153013

| | | | | | | |
|---------|------------------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.032 <i>B J</i> | 0.033 | mg/kg | SW846 7471A | 06/02/09 | LDX1G1AQ |
| | | Dilution Factor: 1 | | Analysis Time...: 08:29 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.011 | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E280323

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B05-8 | C9E280323-001 | Soil |
| 1DL | BP-SO-B05-8DL | C9E280323-001DL | Soil |
| 2 | BP-SO-B05-14 | C9E280323-002 | Soil |
| 2DL | BP-SO-B05-14DL | C9E280323-002DL | Soil |
| 3 | BP-SO-B05-20 | C9E280323-003 | Soil |
| 3DL | BP-SO-B05-20DL | C9E280323-003DL | Soil |
| 4 | SRM | C9E280323-004 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - An MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - Several samples exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed these samples. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

EDS sample ID#4 is a performance testing sample. The reviewer included the actual results with the Form I in the report.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Semivolatiles

Lot-Sample #....: C9E280323-001 Work Order #....: LDXDC1AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 09:45 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 11:08
 Dilution Factor: 99.34 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 10 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING | LIMIT | UNITS | MDL |
|--------------------------|----------------------------------|-----------|-------|-------|---------|
| 1-Methylnaphthalene | 24000 | | 740 | ug/kg | 110 |
| 2-Methylnaphthalene | 64000 | | 740 | ug/kg | 140 |
| Naphthalene | 1000000 370000 E 5500 | | 740 | ug/kg | 140 800 |
| Acenaphthylene | 19000 | | 740 | ug/kg | 150 |
| Acenaphthene | 4600 | | 740 | ug/kg | 120 |
| Fluorene | 14000 | | 740 | ug/kg | 110 |
| Phenanthrene | 15000 | | 740 | ug/kg | 88 |
| Anthracene | 2300 J | | 3600 | ug/kg | 130 |
| Fluoranthene | 3700 | | 740 | ug/kg | 62 |
| Pyrene | 3100 | | 740 | ug/kg | 200 |
| Benzo (a) anthracene | 1100 | | 740 | ug/kg | 120 |
| Chrysene | 1300 | | 740 | ug/kg | 130 |
| Benzo (b) fluoranthene | 1200 | | 740 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | | 740 | ug/kg | 150 |
| Benzo (a) pyrene | 780 | | 740 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | 460 J | | 740 | ug/kg | 40 |
| Dibenzo (a,h) anthracene | ND | | 740 | ug/kg | 160 |
| Benzo (ghi) perylene | 510 J | | 740 | ug/kg | 54 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

NW
8/10/09

IDL

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8 DL

GC/MS Semivolatiles

Lot-Sample #....: C9E280323-001 Work Order #....: LDXDC2AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 09:45 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 18:02
 Dilution Factor: 745.03 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 10 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|---------------------|--------------------|-------|------|
| 1-Methylnaphthalene | 24000 | 5500 | ug/kg | 840 |
| 2-Methylnaphthalene | 63000 | 5500 | ug/kg | 1100 |
| Naphthalene | 1000000 | 5500 | ug/kg | 800 |
| Acenaphthylene | 22000 | 5500 | ug/kg | 1100 |
| Acenaphthene | 5300 J | 5500 | ug/kg | 890 |
| Fluorene | 14000 | 5500 | ug/kg | 830 |
| Phenanthrene | 14000 | 5500 | ug/kg | 660 |
| Anthracene | 2200 J | 27000 | ug/kg | 970 |
| Fluoranthene | 3700 J | 5500 | ug/kg | 470 |
| Pyrene | 3100 J | 5500 | ug/kg | 1500 |
| Benzo(a)anthracene | ND | 5500 | ug/kg | 880 |
| Chrysene | ND | 5500 | ug/kg | 970 |
| Benzo(b)fluoranthene | ND | 5500 | ug/kg | 1100 |
| Benzo(k)fluoranthene | ND | 5500 | ug/kg | 1200 |
| Benzo(a)pyrene | ND | 5500 | ug/kg | 1500 |
| Indeno(1,2,3-cd)pyrene | ND | 5500 | ug/kg | 300 |
| Dibenzo(a,h)anthracene | ND | 5500 | ug/kg | 1200 |
| Benzo(ghi)perylene | ND | 5500 | ug/kg | 410 |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | | |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) | | |
| Terphenyl-d14 | NC, DIL | (21 - 130) | | |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) | | |
| 2-Fluorophenol | NC, DIL | (28 - 107) | | |
| Phenol-d5 | NC, DIL | (30 - 112) | | |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) | | |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/10/09

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Semivolatiles

Lot-Sample #....: C9E280323-002 Work Order #....: LDXDN1AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 10:50 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 11:28
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 35 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--|-----------------|-------|--------|
| 1-Methylnaphthalene | 3800 | 510 | ug/kg | 77 |
| 2-Methylnaphthalene | 9800 | 510 | ug/kg | 100 |
| Naphthalene | 130000 ¹³⁰⁰⁰⁰ E 2100 | 510 | ug/kg | 74 300 |
| Acenaphthylene | 3100 | 510 | ug/kg | 100 |
| Acenaphthene | 750 | 510 | ug/kg | 82 |
| Fluorene | 2500 | 510 | ug/kg | 77 |
| Phenanthrene | 2700 | 510 | ug/kg | 61 |
| Anthracene | 440 J | 2500 | ug/kg | 90 |
| Fluoranthene | 630 | 510 | ug/kg | 43 |
| Pyrene | 490 J | 510 | ug/kg | 140 |
| Benzo(a)anthracene | 200 J | 510 | ug/kg | 82 |
| Chrysene | 210 J | 510 | ug/kg | 89 |
| Benzo(b)fluoranthene | 110 J | 510 | ug/kg | 100 |
| Benzo(k)fluoranthene | ND | 510 | ug/kg | 110 |
| Benzo(a)pyrene | ND | 510 | ug/kg | 140 |
| Indeno(1,2,3-cd)pyrene | ND | 510 | ug/kg | 28 |
| Dibenzo(a,h)anthracene | ND | 510 | ug/kg | 110 |
| Benzo(ghi)perylene | ND | 510 | ug/kg | 38 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

WJ
8/10/09

2 DL

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14 DL

GC/MS Semivolatiles

Use original

Lot-Sample #....: C9E280323-002 Work Order #....: LDXDN2AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 10:50 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 18:22
 Dilution Factor: 200 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 35 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3900 | 2100 | ug/kg | 310 |
| 2-Methylnaphthalene | 9600 | 2100 | ug/kg | 400 |
| Naphthalene | 130000 | 2100 | ug/kg | 300 |
| Acenaphthylene | 5200 | 2100 | ug/kg | 410 |
| Acenaphthene | 700 J | 2100 | ug/kg | 330 |
| Fluorene | 2500 | 2100 | ug/kg | 310 |
| Phenanthrene | 2500 | 2100 | ug/kg | 240 |
| Anthracene | ND | 10000 | ug/kg | 360 |
| Fluoranthene | 640 J | 2100 | ug/kg | 170 |
| Pyrene | 560 J | 2100 | ug/kg | 540 |
| Benzo (a) anthracene | ND | 2100 | ug/kg | 330 |
| Chrysene | ND | 2100 | ug/kg | 360 |
| Benzo (b) fluoranthene | ND | 2100 | ug/kg | 410 |
| Benzo (k) fluoranthene | ND | 2100 | ug/kg | 430 |
| Benzo (a) pyrene | ND | 2100 | ug/kg | 570 |
| Indeno (1,2,3-cd) pyrene | ND | 2100 | ug/kg | 110 |
| Dibenzo (a,h) anthracene | ND | 2100 | ug/kg | 450 |
| Benzo (ghi) perylene | ND | 2100 | ug/kg | 150 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

dhw
8/10/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Semivolatiles

Lot-Sample #....: C9E280323-003 Work Order #....: LDXDR1AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 10:45 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 11:48
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 38 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------------------------|--------------------|-------|--------|
| 1-Methylnaphthalene | 4400 | 540 | ug/kg | 82 |
| 2-Methylnaphthalene | 11000 | 540 | ug/kg | 110 |
| Naphthalene | 120000 E 2700 | 540 | ug/kg | 78 390 |
| Acenaphthylene | 3700 | 540 | ug/kg | 110 |
| Acenaphthene | 840 | 540 | ug/kg | 87 |
| Fluorene | 2800 | 540 | ug/kg | 81 |
| Phenanthrene | 3200 | 540 | ug/kg | 64 |
| Anthracene | 540 J | 2700 | ug/kg | 95 |
| Fluoranthene | 1200 | 540 | ug/kg | 46 |
| Pyrene | 890 | 540 | ug/kg | 140 |
| Benzo (a) anthracene | 510 J | 540 | ug/kg | 86 |
| Chrysene | 510 J | 540 | ug/kg | 94 |
| Benzo (b) fluoranthene | 370 J | 540 | ug/kg | 110 |
| Benzo (k) fluoranthene | ND | 540 | ug/kg | 110 |
| Benzo (a) pyrene | 450 J | 540 | ug/kg | 150 |
| Indeno (1,2,3-cd) pyrene | 230 J | 540 | ug/kg | 30 |
| Dibenzo (a,h) anthracene | ND | 540 | ug/kg | 120 |
| Benzo (ghi) perylene | 190 J | 540 | ug/kg | 40 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

LMW
8/10/09

3DL

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20 DL

GC/MS Semivolatiles

Use original

Lot-Sample #....: C9E280323-003 Work Order #....: LDXDR2AC Matrix.....: SOLID
 Date Sampled....: 05/27/09 10:45 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 18:41
 Dilution Factor: 250 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 38 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3400 | 2700 | ug/kg | 410 |
| 2-Methylnaphthalene | 8400 | 2700 | ug/kg | 530 |
| Naphthalene | 120000 | 2700 | ug/kg | 390 |
| Acenaphthylene | 3100 | 2700 | ug/kg | 540 |
| Acenaphthene | 690 J | 2700 | ug/kg | 430 |
| Fluorene | 2300 J | 2700 | ug/kg | 410 |
| Phenanthrene | 2300 J | 2700 | ug/kg | 320 |
| Anthracene | ND | 13000 | ug/kg | 470 |
| Fluoranthene | 940 J | 2700 | ug/kg | 230 |
| Pyrene | 810 J | 2700 | ug/kg | 720 |
| Benzo (a) anthracene | ND | 2700 | ug/kg | 430 |
| Chrysene | ND | 2700 | ug/kg | 470 |
| Benzo (b) fluoranthene | ND | 2700 | ug/kg | 550 |
| Benzo (k) fluoranthene | ND | 2700 | ug/kg | 560 |
| Benzo (a) pyrene | ND | 2700 | ug/kg | 760 |
| Indeno (1,2,3-cd) pyrene | ND | 2700 | ug/kg | 150 |
| Dibenzo (a,h) anthracene | ND | 2700 | ug/kg | 590 |
| Benzo (ghi) perylene | ND | 2700 | ug/kg | 200 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/10/09

4

Maryland Environmental Service

Client Sample ID: SRM

GC/MS Semivolatiles

Lot-Sample #....: C9E280323-004 Work Order #....: LDX1G1AA Matrix.....: SOLID
 Date Sampled....: 05/27/09 Date Received...: 05/28/09 09:50 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 19:01
 Dilution Factor: 45 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 280 J | 300 | ug/kg | 45 |
| 2-Methylnaphthalene | 400 | 300 | ug/kg | 59 |
| Naphthalene | 770 | 300 | ug/kg | 44 |
| Acenaphthylene | 1200 | 300 | ug/kg | 60 |
| Acenaphthene | 270 J | 300 | ug/kg | 48 |
| Fluorene | 360 | 300 | ug/kg | 45 |
| Phenanthrene | 4100 | 300 | ug/kg | 36 |
| Anthracene | 1100 J | 1500 | ug/kg | 53 |
| Fluoranthene | 7900 | 300 | ug/kg | 25 |
| Pyrene | 6400 | 300 | ug/kg | 80 |
| Benzo (a) anthracene | 3700 | 300 | ug/kg | 48 |
| Chrysene | 4900 | 300 | ug/kg | 52 |
| Benzo (b) fluoranthene | 2900 | 300 | ug/kg | 61 |
| Benzo (k) fluoranthene | 2600 | 300 | ug/kg | 63 |
| Benzo (a) pyrene | 3000 | 300 | ug/kg | 84 |
| Indeno (1,2,3-cd) pyrene | 2100 | 300 | ug/kg | 17 |
| Dibenzo (a,h) anthracene | 640 | 300 | ug/kg | 66 |
| Benzo (ghi) perylene | 2600 | 300 | ug/kg | 22 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

NW
8/10/09

SW846 8270C SRM RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Services

Lab Code: TAPIT

SDG No: N/A

Lot #: C9E280323

SOIL SRM 1944

| Compound | Certified Value | | Units | Quant. Value | Units | % REC |
|------------------------|-----------------|---------|-------|--------------|-------|--------|
| Naphthalene | 1650.00 | +/- 310 | ug/Kg | 769.99 | ug/Kg | 46.67 |
| Phenanthrene | 5270.00 | +/- 220 | ug/Kg | 4105.30 | ug/Kg | 77.90 |
| Anthracene | 1770.00 | +/- 330 | ug/Kg | 1079.20 | ug/Kg | 60.97 |
| Fluoranthene | 8920.00 | +/- 320 | ug/Kg | 7853.60 | ug/Kg | 88.04 |
| Pyrene | 9700.00 | +/- 420 | ug/Kg | 6399.00 | ug/Kg | 65.97 |
| Benzo(a)anthracene | 4720.00 | +/- 110 | ug/Kg | 3698.00 | ug/Kg | 78.35 |
| Chrysene | 4860.00 | +/- 100 | ug/Kg | 4899.80 | ug/Kg | 100.82 |
| Benzo(b)fluoranthene | 3870.00 | +/- 420 | ug/Kg | 2883.60 | ug/Kg | 74.51 |
| Benzo(k)fluoranthene | 2300.00 | +/- 200 | ug/Kg | 2587.00 | ug/Kg | 112.48 |
| Benzo(a)pyrene | 4300.00 | +/- 130 | ug/Kg | 3001.80 | ug/Kg | 69.81 |
| Benzo(ghi)perylene | 2840.00 | +/- 100 | ug/Kg | 2579.00 | ug/Kg | 90.81 |
| Indeno(1,2,3-cd)pyrene | 2780.00 | +/- 100 | ug/Kg | 2086.80 | ug/Kg | 75.06 |

If the certified concentrations are < 10 times the MDL established for the method, the SRM result will not be evaluated.

The results of the SRM are included with the associated analytical data.

FORM III

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E280323

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B05-8 | C9E280323-001 | Soil |
| 2 | BP-SO-B05-14 | C9E280323-002 | Soil |
| 3 | BP-SO-B05-20 | C9E280323-003 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | All samples |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------|-----------|-------------------------------|
| 06/03/09 | 1,1,2,2-Tetrachloroethane | 28.1% | None | All ND |
| | Acrylonitrile | 26.9% | None | All ND |
| | 2-Chloroethyl vinyl ether | 29.9% | None | All ND |
| | Acrolein | 0.031 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target compounds.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E280323-001 | Work Order #....: LDXDC1AV | Matrix.....: SOLID |
| Date Sampled....: 05/27/09 | Date Received...: 05/28/09 | MS Run #.....: |
| Prep Date.....: 06/03/09 | Analysis Date...: 06/03/09 | |
| Prep Batch #....: 9154569 | Analysis Time...: 15:50 | |
| Dilution Factor: 48.64 | Initial Wgt/Vol: 5.14 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 10 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|-------|
| Acrolein | ND R | 270000 | ug/kg | 43000 |
| Acrylonitrile | ND | 270000 | ug/kg | 22000 |
| Benzene | 470000 | 14000 | ug/kg | 2700 |
| Bromodichloromethane | ND | 14000 | ug/kg | 2500 |
| Bromoform | ND | 14000 | ug/kg | 2900 |
| Bromomethane | ND | 14000 | ug/kg | 4300 |
| 2-Butanone (MEK) | ND | 14000 | ug/kg | 2900 |
| Carbon tetrachloride | ND | 14000 | ug/kg | 2900 |
| Chloroethane | ND | 14000 | ug/kg | 2000 |
| 2-Chloroethyl vinyl ether | ND | 27000 | ug/kg | 3000 |
| Chloroform | ND | 14000 | ug/kg | 2700 |
| Chloromethane | ND | 14000 | ug/kg | 2500 |
| Dibromochloromethane | ND | 14000 | ug/kg | 1800 |
| 1,2-Dichlorobenzene | ND | 14000 | ug/kg | 1800 |
| 1,3-Dichlorobenzene | ND | 14000 | ug/kg | 1400 |
| 1,4-Dichlorobenzene | ND | 14000 | ug/kg | 1400 |
| trans-1,2-Dichloroethene | ND | 14000 | ug/kg | 2000 |
| Dichlorodifluoromethane | ND | 14000 | ug/kg | 1700 |
| 1,1-Dichloroethane | ND | 14000 | ug/kg | 2700 |
| 1,2-Dichloroethane | ND | 14000 | ug/kg | 2600 |
| 1,1-Dichloroethene | ND | 14000 | ug/kg | 2900 |
| 1,2-Dichloropropane | ND | 14000 | ug/kg | 3400 |
| cis-1,3-Dichloropropene | ND | 14000 | ug/kg | 2000 |
| trans-1,3-Dichloropropene | ND | 14000 | ug/kg | 1600 |
| Ethylbenzene | 17000 | 14000 | ug/kg | 1700 |
| Methylene chloride | ND | 14000 | ug/kg | 2900 |
| 1,1,2,2-Tetrachloroethane | ND | 14000 | ug/kg | 2500 |
| Tetrachloroethene | ND | 14000 | ug/kg | 2200 |
| Toluene | 330000 | 14000 | ug/kg | 2300 |
| 1,1,1-Trichloroethane | ND | 14000 | ug/kg | 2800 |
| 1,1,2-Trichloroethane | ND | 14000 | ug/kg | 3100 |
| Trichloroethene | ND | 14000 | ug/kg | 2200 |
| Trichlorofluoromethane | ND | 14000 | ug/kg | 3000 |
| Vinyl chloride | ND | 14000 | ug/kg | 3500 |

(Continued on next page)

llw
8/10/09
12

Maryland Environmental Service

Client Sample ID: BP-SO-B05-8

GC/MS Volatiles

Lot-Sample #....: C9E280323-001 Work Order #....: LDXDC1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Volatiles

Lot-Sample #....: C9E280323-002 Work Order #....: LDXDN1AV Matrix.....: SOLID
 Date Sampled....: 05/27/09 Date Received...: 05/28/09 MS Run #.....:
 Prep Date.....: 06/03/09 Analysis Date...: 06/03/09
 Prep Batch #....: 9154569 Analysis Time...: 16:13
 Dilution Factor: 4.73 Initial Wgt/Vol.: 5.28 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 35 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND R | 36000 | ug/kg | 5800 |
| Acrylonitrile | ND | 36000 | ug/kg | 2900 |
| Benzene | 22000 | 1800 | ug/kg | 360 |
| Bromodichloromethane | ND | 1800 | ug/kg | 340 |
| Bromoform | ND | 1800 | ug/kg | 390 |
| Bromomethane | ND | 1800 | ug/kg | 570 |
| 2-Butanone (MEK) | ND | 1800 | ug/kg | 390 |
| Carbon tetrachloride | ND | 1800 | ug/kg | 390 |
| Chloroethane | ND | 1800 | ug/kg | 270 |
| 2-Chloroethyl vinyl ether | ND | 3600 | ug/kg | 400 |
| Chloroform | ND | 1800 | ug/kg | 370 |
| Chloromethane | ND | 1800 | ug/kg | 340 |
| Dibromochloromethane | ND | 1800 | ug/kg | 240 |
| 1,2-Dichlorobenzene | ND | 1800 | ug/kg | 250 |
| 1,3-Dichlorobenzene | ND | 1800 | ug/kg | 180 |
| 1,4-Dichlorobenzene | ND | 1800 | ug/kg | 190 |
| trans-1,2-Dichloroethene | ND | 1800 | ug/kg | 270 |
| Dichlorodifluoromethane | ND | 1800 | ug/kg | 230 |
| 1,1-Dichloroethane | ND | 1800 | ug/kg | 370 |
| 1,2-Dichloroethane | ND | 1800 | ug/kg | 350 |
| 1,1-Dichloroethene | ND | 1800 | ug/kg | 390 |
| 1,2-Dichloropropane | ND | 1800 | ug/kg | 460 |
| cis-1,3-Dichloropropene | ND | 1800 | ug/kg | 260 |
| trans-1,3-Dichloropropene | ND | 1800 | ug/kg | 210 |
| Ethylbenzene | 770 J | 1800 | ug/kg | 230 |
| Methylene chloride | ND | 1800 | ug/kg | 400 |
| 1,1,2,2-Tetrachloroethane | ND | 1800 | ug/kg | 340 |
| Tetrachloroethene | ND | 1800 | ug/kg | 300 |
| Toluene | 14000 | 1800 | ug/kg | 310 |
| 1,1,1-Trichloroethane | ND | 1800 | ug/kg | 370 |
| 1,1,2-Trichloroethane | ND | 1800 | ug/kg | 420 |
| Trichloroethene | ND | 1800 | ug/kg | 290 |
| Trichlorofluoromethane | ND | 1800 | ug/kg | 410 |
| Vinyl chloride | ND | 1800 | ug/kg | 470 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B05-14

GC/MS Volatiles

Lot-Sample #....: C9E280323-002 Work Order #....: LDXDN1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 84 | (52 - 124) |
| Toluene-d8 | 99 | (72 - 127) |
| 4-Bromofluorobenzene | 91 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E280323-003 | Work Order #....: LDXDR1AV | Matrix.....: SOLID |
| Date Sampled....: 05/27/09 | Date Received...: 05/28/09 | MS Run #.....: |
| Prep Date.....: 06/03/09 | Analysis Date...: 06/03/09 | |
| Prep Batch #....: 9154569 | Analysis Time...: 16:36 | |
| Dilution Factor: 4.69 | Initial Wgt/Vol: 5.33 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 38 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND R | 38000 | ug/kg | 6000 |
| Acrylonitrile | ND | 38000 | ug/kg | 3100 |
| Benzene | 21000 | 1900 | ug/kg | 380 |
| Bromodichloromethane | ND | 1900 | ug/kg | 350 |
| Bromoform | ND | 1900 | ug/kg | 410 |
| Bromomethane | ND | 1900 | ug/kg | 600 |
| 2-Butanone (MEK) | ND | 1900 | ug/kg | 410 |
| Carbon tetrachloride | ND | 1900 | ug/kg | 410 |
| Chloroethane | ND | 1900 | ug/kg | 280 |
| 2-Chloroethyl vinyl ether | ND | 3800 | ug/kg | 420 |
| Chloroform | ND | 1900 | ug/kg | 380 |
| Chloromethane | ND | 1900 | ug/kg | 350 |
| Dibromochloromethane | ND | 1900 | ug/kg | 250 |
| 1,2-Dichlorobenzene | ND | 1900 | ug/kg | 260 |
| 1,3-Dichlorobenzene | ND | 1900 | ug/kg | 190 |
| 1,4-Dichlorobenzene | ND | 1900 | ug/kg | 200 |
| trans-1,2-Dichloroethene | ND | 1900 | ug/kg | 290 |
| Dichlorodifluoromethane | ND | 1900 | ug/kg | 240 |
| 1,1-Dichloroethane | ND | 1900 | ug/kg | 380 |
| 1,2-Dichloroethane | ND | 1900 | ug/kg | 360 |
| 1,1-Dichloroethene | ND | 1900 | ug/kg | 400 |
| 1,2-Dichloropropane | ND | 1900 | ug/kg | 480 |
| cis-1,3-Dichloropropene | ND | 1900 | ug/kg | 280 |
| trans-1,3-Dichloropropene | ND | 1900 | ug/kg | 220 |
| Ethylbenzene | 590 J | 1900 | ug/kg | 240 |
| Methylene chloride | ND | 1900 | ug/kg | 410 |
| 1,1,2,2-Tetrachloroethane | ND | 1900 | ug/kg | 350 |
| Tetrachloroethene | ND | 1900 | ug/kg | 310 |
| Toluene | 12000 | 1900 | ug/kg | 320 |
| 1,1,1-Trichloroethane | ND | 1900 | ug/kg | 390 |
| 1,1,2-Trichloroethane | ND | 1900 | ug/kg | 440 |
| Trichloroethene | ND | 1900 | ug/kg | 300 |
| Trichlorofluoromethane | ND | 1900 | ug/kg | 420 |
| Vinyl chloride | ND | 1900 | ug/kg | 490 |

(Continued on next page)

Ww
8/10/09
16

3

Maryland Environmental Service

Client Sample ID: BP-SO-B05-20

GC/MS Volatiles

Lot-Sample #....: C9E280323-003 Work Order #....: LDXDR1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 96 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

NCW
8/10/09

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

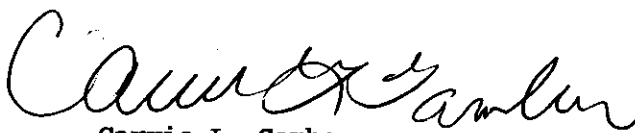
MES Sparrows Point 18001868

Lot #: C9F120311

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 24, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pittsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F120311

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 12, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, the sediment samples were analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. Several samples had the surrogates diluted out.

Sample BP-SO-B06-16 had the surrogate recovery of 2,4,6-tribromophenol recover below the control limit. The sample was analyzed at a dilution, therefore no reextraction was performed.

The matrix spikes were diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F120311

Metals:

Sample BP-SO-B06-8 was analyzed at dilution for mercury.

The serial dilution percent difference for BP-SO-B06-8 was outside the control limit for silver, chromium and nickel.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, arsenic, chromium, zinc, and selenium. The matrix spike recovered outside the control limit for beryllium, copper, and nickel.

The RPD was outside the control limit for nickel.

For the matrix spike and matrix spike duplicate, lead, recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

Sample BP-SO-B06-16 was analyzed at a dilution for total cyanide.

METHODS SUMMARY

C9F120311

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|--|----------------------|-----------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F120311

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LEV4 | 001 | BP-SO-B06-8 | 06/11/09 | 08:15 |
| LEVER | 002 | BP-SO-B06-12 | 06/11/09 | 09:00 |
| LEVE5 | 003 | BP-SO-B06-16 | 06/11/09 | 09:40 |
| LEV3 | 004 | BP-SO-B07-12 | 06/11/09 | 13:30 |
| LEVGC | 005 | BP-SO-DUP-2 | 06/11/09 | |
| LEVGG | 006 | TRIP BLANK | 06/11/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

[illegible]

Cooler Receipt Form

TestAmerica Pittsburgh

Client: Maryland Environmental Svc. Project: Sparrows Point Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 6/12/09

Coolers Opened and Unpacked on: 6/12/09 By: Tim Ucinie
(Signature)

TestAmerica Pittsburgh Lot Number: C9F120311

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>Front</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Bags</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____
 Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

UP: Unpreserved

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

| Sample | Lot Number** |
|--------|--------------|
|--------|--------------|

[illegible]

**Please use an asterisk if bottle lot number was covered by the label

Hydrochloric Acid _____
Sodium Hydroxide _____



8694 4003 0550

0200

Form
ID No

FedEx Retrieval Copy

1 From
Date 6/11/04 Sender's FedEx Account Number 0210-0702-5
Sender's Name Shirley Zick Phone 714-400-1000
Company EA Engineering
Address 1511 W. 10th St.
City Fullerton State CA ZIP 92630 Dept./Floor/Suite/Room

2 Your Internal Billing Reference 14534

3 To
Recipient's Name Todd Anderson Phone 714-400-1000
Company EA Engineering
Address 1511 W. 10th St.
City Fullerton State CA ZIP 92630 Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

To request a package be held at a specific FedEx location, print FedEx address here:
City _____ State _____ ZIP _____



8694 4003 0550

4a Express Package Service

| | | |
|---|--|--|
| 1 <input type="checkbox"/> FedEx Priority Overnight Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | 5 <input type="checkbox"/> FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available. | 6 <input type="checkbox"/> FedEx First Overnight Earliest next business day. * Saturday Delivery NOT available. |
| 3 <input type="checkbox"/> FedEx 2Day Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Envelope rate not available. Minimum charge: One pound rate. | 20 <input type="checkbox"/> FedEx Express Saver Third business day. * Saturday Delivery NOT available. | |

* To most locations.

4b Express Freight Service

| | | |
|--|---|---|
| 7 <input type="checkbox"/> FedEx 1Day Freight* Next business day. ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | 8 <input type="checkbox"/> FedEx 2Day Freight Second business day. ** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | 83 <input type="checkbox"/> FedEx 3Day Freight Third business day. ** Saturday Delivery NOT available. |
|--|---|---|

* Call for Confirmation. ** To most locations.

5 Packaging

| | | | | |
|--|---|--|---|--|
| 6 <input type="checkbox"/> FedEx Envelope* | 2 <input type="checkbox"/> FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. | 3 <input type="checkbox"/> FedEx Box | 4 <input type="checkbox"/> FedEx Tube | 1 <input type="checkbox"/> Other |
|--|---|--|---|--|

* Declared value limit \$500.

6 Special Handling

| | | |
|--|---|---|
| 3 <input type="checkbox"/> SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight. | 1 <input type="checkbox"/> HOLD Weekday at FedEx Location Not available for FedEx First Overnight. | 31 <input type="checkbox"/> HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day, to select locations. |
|--|---|---|

Include FedEx address in Section 3.

Does this shipment contain dangerous goods?

| | | |
|---|--|---|
| 4 <input type="checkbox"/> No | 4 <input type="checkbox"/> Yes One box must be checked. Shipper's Declaration not required. | 6 <input type="checkbox"/> Dry Ice Dry Ice, 9, UN 1845 |
|---|--|---|

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to:

| | | | | |
|---|--|--|--|---|
| 1 <input type="checkbox"/> Sender Acct. No. in Section 1 will be billed. | 2 <input type="checkbox"/> Recipient | 3 <input type="checkbox"/> Third Party | 4 <input type="checkbox"/> Credit Card | 5 <input type="checkbox"/> Cash/Check |
|---|--|--|--|---|

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

Total Packages

Total Weight

42

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

| | | |
|--|---|---|
| No Signature Required Package may be left without obtaining a signature for delivery. 10 <input type="checkbox"/> | Direct Signature Someone at recipient's address may sign for delivery. Fee applies. 34 <input type="checkbox"/> | Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies. |
|--|---|---|

520

Rev. Date 10/06-Part #158261-01/06-2006 FedEx-PRINTED IN U.S.A. SBY

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-001 | Work Order #....: LEVD41AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 19:25 | |
| Dilution Factor: 98.42 | Initial Wgt/Vol: 5.08 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 19 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|-------------|
| Acrolein | ND | 610000 | ug/kg | 97000 |
| Acrylonitrile | ND | 610000 | ug/kg | 49000 |
| Benzene | 440000 | 30000 | ug/kg | 6000 |
| Bromodichloromethane | ND | 30000 | ug/kg | 5700 |
| Bromoform | ND | 30000 | ug/kg | 6500 |
| Bromomethane | ND | 30000 | ug/kg | 9600 |
| 2-Butanone (MEK) | ND | 30000 | ug/kg | 6600 |
| Carbon tetrachloride | ND | 30000 | ug/kg | 6600 |
| Chloroethane | ND | 30000 | ug/kg | 4500 |
| 2-Chloroethyl vinyl ether | ND | 61000 | ug/kg | 6700 |
| Chloroform | ND | 30000 | ug/kg | 6100 |
| Chloromethane | ND | 30000 | ug/kg | 5700 |
| Dibromochloromethane | ND | 30000 | ug/kg | 3900 |
| 1,2-Dichlorobenzene | ND | 30000 | ug/kg | 4200 |
| 1,3-Dichlorobenzene | ND | 30000 | ug/kg | 3100 |
| 1,4-Dichlorobenzene | ND | 30000 | ug/kg | 3200 |
| trans-1,2-Dichloroethene | ND | 30000 | ug/kg | 4600 |
| Dichlorodifluoromethane | ND | 30000 | ug/kg | 3900 |
| 1,1-Dichloroethane | ND | 30000 | ug/kg | 6200 |
| 1,2-Dichloroethane | ND | 30000 | ug/kg | 5800 |
| 1,1-Dichloroethene | ND | 30000 | ug/kg | 6500 |
| 1,2-Dichloropropane | ND | 30000 | ug/kg | 7800 |
| cis-1,3-Dichloropropene | ND | 30000 | ug/kg | 4400 |
| trans-1,3-Dichloropropene | ND | 30000 | ug/kg | 3500 |
| Ethylbenzene | 5500 J | 30000 | ug/kg | 3800 |
| Methylene chloride | ND | 30000 | ug/kg | 6600 |
| 1,1,2,2-Tetrachloroethane | ND | 30000 | ug/kg | 5700 |
| Tetrachloroethene | ND | 30000 | ug/kg | 5000 |
| Toluene | 170000 | 30000 | ug/kg | 5100 |
| 1,1,1-Trichloroethane | ND | 30000 | ug/kg | 6300 |
| 1,1,2-Trichloroethane | ND | 30000 | ug/kg | 7100 |
| Trichloroethene | ND | 30000 | ug/kg | 4900 |
| Trichlorofluoromethane | ND | 30000 | ug/kg | 6800 |
| Vinyl chloride | ND | 30000 | ug/kg | 7900 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Volatiles

Lot-Sample #...: C9F120311-001 Work Order #...: LEVD41AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 103 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 108 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-002 | Work Order #....: LEVER1AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 19:49 | |
| Dilution Factor: 483.56 | Initial Wgt/Vol: 5.17 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 26 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|--------------|
| Acrolein | ND | 3300000 | ug/kg | 520000 |
| Acrylonitrile | ND | 3300000 | ug/kg | 270000 |
| Benzene | 1500000 | 160000 | ug/kg | 32000 |
| Bromodichloromethane | ND | 160000 | ug/kg | 30000 |
| Bromoform | ND | 160000 | ug/kg | 35000 |
| Bromomethane | ND | 160000 | ug/kg | 52000 |
| 2-Butanone (MEK) | ND | 160000 | ug/kg | 36000 |
| Carbon tetrachloride | ND | 160000 | ug/kg | 35000 |
| Chloroethane | ND | 160000 | ug/kg | 24000 |
| 2-Chloroethyl vinyl ether | ND | 330000 | ug/kg | 36000 |
| Chloroform | ND | 160000 | ug/kg | 33000 |
| Chloromethane | ND | 160000 | ug/kg | 30000 |
| Dibromochloromethane | ND | 160000 | ug/kg | 21000 |
| 1,2-Dichlorobenzene | ND | 160000 | ug/kg | 22000 |
| 1,3-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| 1,4-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| trans-1,2-Dichloroethene | ND | 160000 | ug/kg | 25000 |
| Dichlorodifluoromethane | ND | 160000 | ug/kg | 21000 |
| 1,1-Dichloroethane | ND | 160000 | ug/kg | 33000 |
| 1,2-Dichloroethane | ND | 160000 | ug/kg | 31000 |
| 1,1-Dichloroethene | ND | 160000 | ug/kg | 35000 |
| 1,2-Dichloropropane | ND | 160000 | ug/kg | 42000 |
| cis-1,3-Dichloropropene | ND | 160000 | ug/kg | 24000 |
| trans-1,3-Dichloropropene | ND | 160000 | ug/kg | 19000 |
| Ethylbenzene | 29000 J | 160000 | ug/kg | 20000 |
| Methylene chloride | ND | 160000 | ug/kg | 36000 |
| 1,1,2,2-Tetrachloroethane | ND | 160000 | ug/kg | 31000 |
| Tetrachloroethene | ND | 160000 | ug/kg | 27000 |
| Toluene | 770000 | 160000 | ug/kg | 28000 |
| 1,1,1-Trichloroethane | ND | 160000 | ug/kg | 34000 |
| 1,1,2-Trichloroethane | ND | 160000 | ug/kg | 38000 |
| Trichloroethene | ND | 160000 | ug/kg | 26000 |
| Trichlorofluoromethane | ND | 160000 | ug/kg | 37000 |
| Vinyl chloride | ND | 160000 | ug/kg | 42000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Volatiles

Lot-Sample #....: C9F120311-002 Work Order #....: LEVER1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 103 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 106 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-003 | Work Order #....: LEVE51AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 20:13 | |
| Dilution Factor: 98.23 | Initial Wgt/Vol: 5.09 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 37 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|----------------|--------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 780000 | ug/kg | 120000 |
| Acrylonitrile | ND | 780000 | ug/kg | 63000 |
| Benzene | 760000 | 39000 | ug/kg | 7700 |
| Bromodichloromethane | ND | 39000 | ug/kg | 7200 |
| Bromoform | ND | 39000 | ug/kg | 8300 |
| Bromomethane | ND | 39000 | ug/kg | 12000 |
| 2-Butanone (MEK) | ND | 39000 | ug/kg | 8400 |
| Carbon tetrachloride | ND | 39000 | ug/kg | 8400 |
| Chloroethane | ND | 39000 | ug/kg | 5800 |
| 2-Chloroethyl vinyl ether | ND | 78000 | ug/kg | 8600 |
| Chloroform | ND | 39000 | ug/kg | 7800 |
| Chloromethane | ND | 39000 | ug/kg | 7200 |
| Dibromochloromethane | ND | 39000 | ug/kg | 5000 |
| 1,2-Dichlorobenzene | ND | 39000 | ug/kg | 5300 |
| 1,3-Dichlorobenzene | ND | 39000 | ug/kg | 3900 |
| 1,4-Dichlorobenzene | ND | 39000 | ug/kg | 4100 |
| trans-1,2-Dichloroethene | ND | 39000 | ug/kg | 5800 |
| Dichlorodifluoromethane | ND | 39000 | ug/kg | 4900 |
| 1,1-Dichloroethane | ND | 39000 | ug/kg | 7900 |
| 1,2-Dichloroethane | ND | 39000 | ug/kg | 7500 |
| 1,1-Dichloroethene | ND | 39000 | ug/kg | 8300 |
| 1,2-Dichloropropane | ND | 39000 | ug/kg | 9900 |
| cis-1,3-Dichloropropene | ND | 39000 | ug/kg | 5700 |
| trans-1,3-Dichloropropene | ND | 39000 | ug/kg | 4500 |
| Ethylbenzene | 12000 J | 39000 | ug/kg | 4800 |
| Methylene chloride | ND | 39000 | ug/kg | 8500 |
| 1,1,2,2-Tetrachloroethane | ND | 39000 | ug/kg | 7300 |
| Tetrachloroethene | ND | 39000 | ug/kg | 6400 |
| Toluene | 310000 | 39000 | ug/kg | 6600 |
| 1,1,1-Trichloroethane | ND | 39000 | ug/kg | 8000 |
| 1,1,2-Trichloroethane | ND | 39000 | ug/kg | 9000 |
| Trichloroethene | ND | 39000 | ug/kg | 6200 |
| Trichlorofluoromethane | ND | 39000 | ug/kg | 8700 |
| Vinyl chloride | ND | 39000 | ug/kg | 10000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Volatiles

Lot-Sample #....: C9F120311-003 Work Order #....: LEVE51AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 106 | (72 - 127) |
| 4-Bromofluorobenzene | 108 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-004 | Work Order #....: LEVF31AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 20:37 | |
| Dilution Factor: 95.23 | Initial Wgt/Vol: 5.25 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|--------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 570000 | ug/kg | 90000 |
| Acrylonitrile | ND | 570000 | ug/kg | 46000 |
| Benzene | 680000 | 28000 | ug/kg | 5600 |
| Bromodichloromethane | ND | 28000 | ug/kg | 5300 |
| Bromoform | ND | 28000 | ug/kg | 6100 |
| Bromomethane | ND | 28000 | ug/kg | 8900 |
| 2-Butanone (MEK) | ND | 28000 | ug/kg | 6100 |
| Carbon tetrachloride | ND | 28000 | ug/kg | 6100 |
| Chloroethane | ND | 28000 | ug/kg | 4200 |
| 2-Chloroethyl vinyl ether | ND | 57000 | ug/kg | 6300 |
| Chloroform | ND | 28000 | ug/kg | 5700 |
| Chloromethane | ND | 28000 | ug/kg | 5300 |
| Dibromochloromethane | ND | 28000 | ug/kg | 3700 |
| 1,2-Dichlorobenzene | ND | 28000 | ug/kg | 3900 |
| 1,3-Dichlorobenzene | ND | 28000 | ug/kg | 2900 |
| 1,4-Dichlorobenzene | ND | 28000 | ug/kg | 3000 |
| trans-1,2-Dichloroethene | ND | 28000 | ug/kg | 4300 |
| Dichlorodifluoromethane | ND | 28000 | ug/kg | 3600 |
| 1,1-Dichloroethane | ND | 28000 | ug/kg | 5700 |
| 1,2-Dichloroethane | ND | 28000 | ug/kg | 5400 |
| 1,1-Dichloroethene | ND | 28000 | ug/kg | 6000 |
| 1,2-Dichloropropane | ND | 28000 | ug/kg | 7200 |
| cis-1,3-Dichloropropene | ND | 28000 | ug/kg | 4100 |
| trans-1,3-Dichloropropene | ND | 28000 | ug/kg | 3300 |
| Ethylbenzene | 8400 J | 28000 | ug/kg | 3500 |
| Methylene chloride | ND | 28000 | ug/kg | 6200 |
| 1,1,2,2-Tetrachloroethane | ND | 28000 | ug/kg | 5300 |
| Tetrachloroethene | ND | 28000 | ug/kg | 4700 |
| Toluene | 250000 | 28000 | ug/kg | 4800 |
| 1,1,1-Trichloroethane | ND | 28000 | ug/kg | 5800 |
| 1,1,2-Trichloroethane | ND | 28000 | ug/kg | 6600 |
| Trichloroethene | ND | 28000 | ug/kg | 4500 |
| Trichlorofluoromethane | ND | 28000 | ug/kg | 6300 |
| Vinyl chloride | ND | 28000 | ug/kg | 7300 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Volatiles

Lot-Sample #...: C9F120311-004 Work Order #...: LEVF31AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 96 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-005 | Work Order #....: LEVGC1AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 21:00 | |
| Dilution Factor: 482.62 | Initial Wgt/Vol: 5.18 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 24 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|----------------|---------------|--------------|--------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 3200000 | ug/kg | 500000 |
| Acrylonitrile | ND | 3200000 | ug/kg | 260000 |
| Benzene | 1700000 | 160000 | ug/kg | 31000 |
| Bromodichloromethane | ND | 160000 | ug/kg | 30000 |
| Bromoform | ND | 160000 | ug/kg | 34000 |
| Bromomethane | ND | 160000 | ug/kg | 50000 |
| 2-Butanone (MEK) | ND | 160000 | ug/kg | 34000 |
| Carbon tetrachloride | ND | 160000 | ug/kg | 34000 |
| Chloroethane | ND | 160000 | ug/kg | 24000 |
| 2-Chloroethyl vinyl ether | ND | 320000 | ug/kg | 35000 |
| Chloroform | ND | 160000 | ug/kg | 32000 |
| Chloromethane | ND | 160000 | ug/kg | 29000 |
| Dibromochloromethane | ND | 160000 | ug/kg | 21000 |
| 1,2-Dichlorobenzene | ND | 160000 | ug/kg | 22000 |
| 1,3-Dichlorobenzene | ND | 160000 | ug/kg | 16000 |
| 1,4-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| trans-1,2-Dichloroethene | ND | 160000 | ug/kg | 24000 |
| Dichlorodifluoromethane | ND | 160000 | ug/kg | 20000 |
| 1,1-Dichloroethane | ND | 160000 | ug/kg | 32000 |
| 1,2-Dichloroethane | ND | 160000 | ug/kg | 30000 |
| 1,1-Dichloroethene | ND | 160000 | ug/kg | 34000 |
| 1,2-Dichloropropane | ND | 160000 | ug/kg | 40000 |
| cis-1,3-Dichloropropene | ND | 160000 | ug/kg | 23000 |
| trans-1,3-Dichloropropene | ND | 160000 | ug/kg | 18000 |
| Ethylbenzene | 210000 | 160000 | ug/kg | 20000 |
| Methylene chloride | ND | 160000 | ug/kg | 35000 |
| 1,1,2,2-Tetrachloroethane | ND | 160000 | ug/kg | 30000 |
| Tetrachloroethene | ND | 160000 | ug/kg | 26000 |
| Toluene | 480000 | 160000 | ug/kg | 27000 |
| 1,1,1-Trichloroethane | ND | 160000 | ug/kg | 33000 |
| 1,1,2-Trichloroethane | ND | 160000 | ug/kg | 37000 |
| Trichloroethene | ND | 160000 | ug/kg | 25000 |
| Trichlorofluoromethane | ND | 160000 | ug/kg | 36000 |
| Vinyl chloride | ND | 160000 | ug/kg | 41000 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Volatiles

Lot-Sample #....: C9F120311-005 Work Order #....: LEVGC1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F120311-006 | Work Order #...: LEVGG1AA | Matrix.....: WATER |
| Date Sampled...: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: 9169266 |
| Prep Date.....: 06/18/09 | Analysis Date...: 06/18/09 | |
| Prep Batch #...: 9169470 | Analysis Time...: 07:35 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F120311-006 Work Order #...: LEVGG1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 88 | (62 - 123) |
| Toluene-d8 | 98 | (80 - 120) |
| 4-Bromofluorobenzene | 87 | (75 - 120) |
| Dibromofluoromethane | 93 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120311

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B06-8 | 103 | 107 | 108 | 94 | 00 |
| 02 | BP-SO-B06-12 | 103 | 104 | 106 | 97 | 00 |
| 03 | BP-SO-B06-16 | 102 | 106 | 108 | 94 | 00 |
| 04 | BP-SO-B07-12 | 101 | 105 | 105 | 96 | 00 |
| 05 | BP-SO-DUP-2 | 102 | 105 | 107 | 94 | 00 |
| 06 | METHOD BLK. LFD191AA | 98 | 107 | 100 | 88 | 00 |
| 07 | LCS LFD191AC | 101 | 114 | 106 | 94 | 00 |
| 08 | LCSD LFD191AD | 95 | 111 | 107 | 91 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120311

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 86 | 101 | 96 | 100 | 00 |
| 02 | TRIP BLANK | 88 | 98 | 87 | 93 | 00 |
| 03 | METHOD BLK. LE7H71AA | 86 | 95 | 91 | 97 | 00 |
| 04 | LCS LE7H71AC | 86 | 100 | 89 | 92 | 00 |
| 05 | LAB MS/MSD D | 86 | 104 | 91 | 95 | 00 |
| 06 | LAB MS/MSD S | 86 | 103 | 91 | 96 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F180000

WO #: LE7H71AC

BATCH: 9169470

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 32.5 | 81 | 69 - 127 | |
| Trichloroethene | 40.0 | 39.8 | 99 | 80 - 120 | |
| Benzene | 40.0 | 38.1 | 95 | 80 - 120 | |
| Toluene | 40.0 | 43.8 | 109 | 80 - 124 | |
| Chlorobenzene | 40.0 | 38.4 | 96 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F220000

WO #: LFD191AC

BATCH: 9173046

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1960 | 98 | 59- 129 | |
| Trichloroethene | 2000 | 1800 | 90 | 76- 119 | |
| Benzene | 2000 | 2050 | 102 | 77- 120 | |
| Toluene | 2000 | 2240 | 112 | 78- 124 | |
| Chlorobenzene | 2000 | 2050 | 102 | 79- 120 | |

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F220000

WO #: LFD191AD

BATCH: 9173046

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1940 | 97 | 59 - 129 | |
| Trichloroethene | 2000 | 1770 | 88 | 76 - 119 | |
| Benzene | 2000 | 2010 | 100 | 77 - 120 | |
| Toluene | 2000 | 2220 | 111 | 78 - 124 | |
| Chlorobenzene | 2000 | 2030 | 102 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F110352

WO #: LEQ8M1AC

BATCH: 9169470

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 33.9 | 85 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 38.7 | 97 | 80 - 120 | |
| Benzene | 40.0 | ND | 37.8 | 94 | 80 - 120 | |
| Toluene | 40.0 | 5.6 | 43.8 | 95 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 37.6 | 94 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F110352

WO #: LEQ8M1AD

BATCH: 9169470

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 36.6 | 92 | 7.6 | 20 | 69 - 127 | |
| Trichloroethene | 40.0 | 39.6 | 99 | 2.4 | 20 | 80 - 120 | |
| Benzene | 40.0 | 38.9 | 97 | 2.8 | 20 | 80 - 120 | |
| Toluene | 40.0 | 42.3 | 92 | 3.4 | 20 | 80 - 124 | |
| Chlorobenzene | 40.0 | 38.7 | 97 | 2.8 | 20 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: ____0 out of ____5 outside limits
 Spike Recovery: ____0 out of ____5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LE7H71AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7061802.D

Lot Number: C9F120311

Date Analyzed: 06/18/09

Time Analyzed: 06:57

Matrix: WATER

Date Extracted:06/18/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LEQ8M1AA | 7061806.D | 06/18/09 | 08:49 |
| 02 | LAB MS/MSD | LEQ8M1AC S | 7061813.D | 06/18/09 | 11:48 |
| 03 | LAB MS/MSD | LEQ8M1AD D | 7061814.D | 06/18/09 | 12:13 |
| 04 | TRIP BLANK | LEVGG1AA | 7061803.D | 06/18/09 | 07:35 |
| 05 | CHECK SAMPLE | LE7H71AC C | 7061810.D | 06/18/09 | 10:31 |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F120311
MB Lot-Sample #: C9F180000-470

Work Order #...: LE7H71AA

Matrix.....: WATER

Analysis Date...: 06/18/09
Dilution Factor: 1

Prep Date.....: 06/18/09
Prep Batch #...: 9169470
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 06:57
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|--|-------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 100 | ug/L | | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 86 | (62 - 123) |
| Toluene-d8 | 95 | (80 - 120) |
| 4-Bromofluorobenzene | 91 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F120311

Work Order #...: LE7H71AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 97 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LFD191AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4062101.D

Lot Number: C9F120311

Date Analyzed: 06/21/09

Time Analyzed: 13:10

Matrix: SOLID

Date Extracted: 06/21/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B06-8 | LEVVD41AU | 4062114.D | 06/21/09 | 19:25 |
| 02 | BP-SO-B06-12 | LEVER1AU | 4062115.D | 06/21/09 | 19:49 |
| 03 | BP-SO-B06-16 | LEVE51AU | 4062116.D | 06/21/09 | 20:13 |
| 04 | BP-SO-B07-12 | LEVVF31AU | 4062117.D | 06/21/09 | 20:37 |
| 05 | BP-SO-DUP-2 | LEVGC1AU | 4062118.D | 06/21/09 | 21:00 |
| 06 | CHECK SAMPLE | LFD191AC C | 4062103.D | 06/21/09 | 14:16 |
| 07 | DUPLICATE CHECK | LFD191AD L | 4062104.D | 06/21/09 | 14:44 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F120311
MB Lot-Sample #: C9F220000-046

Work Order #...: LFD191AA

Matrix.....: SOLID

Analysis Date...: 06/21/09

Prep Date.....: 06/21/09

Analysis Time...: 13:10

Dilution Factor: 1

Prep Batch #...: 9173046

Final Wgt/Vol...: 5 mL

Initial Wgt/Vol: 5 g

Instrument ID...: HP4

Analyst ID.....: 034635

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 98 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C9F120311

Work Order #....: LFD191AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 88 | (68 - 121) | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F120311
 Lab File ID (Standard): CC70618 Date Analyzed: 06/18/09
 Instrument ID: HP7 Time Analyzed: 0518
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 273740 | 10.58 | 482069 | 12.91 | 1223857 | 7.50 |
| UPPER LIMIT | 547480 | 10.78 | 964138 | 13.11 | 2447714 | 7.70 |
| LOWER LIMIT | 136870 | 10.38 | 241035 | 12.71 | 611929 | 7.30 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 311765 | 10.58 | 596475 | 12.91 | 1423001 | 7.50 |
| 02 TRIP BLANK | 422711 | 10.58 | 649896 | 12.91 | 1660680 | 7.51 |
| 03 INTRA-LAB CH | 350202 | 10.59 | 539606 | 12.91 | 1388528 | 7.51 |
| 04 | | | | | | |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F120311
 Lab File ID (Standard): CC40621 Date Analyzed: 06/21/09
 Instrument ID: HP4 Time Analyzed: 1202
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 321195 | 10.76 | 533323 | 13.09 | 1553531 | 7.68 |
| UPPER LIMIT | 642390 | 10.96 | 1066646 | 13.29 | 3107062 | 7.88 |
| LOWER LIMIT | 160598 | 10.56 | 266662 | 12.89 | 776766 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 393709 | 10.76 | 646425 | 13.09 | 1923018 | 7.68 |
| 02 INTRA-LAB CH | 326230 | 10.76 | 521213 | 13.09 | 1570166 | 7.68 |
| 03 INTRA-LAB CH | 330120 | 10.76 | 545611 | 13.09 | 1605850 | 7.68 |
| 04 BP-SO-B06-8 | 283817 | 10.77 | 474442 | 13.09 | 1297803 | 7.69 |
| 05 BP-SO-B06-12 | 292389 | 10.76 | 488160 | 13.10 | 1286515 | 7.69 |
| 06 BP-SO-B06-16 | 288398 | 10.77 | 483573 | 13.10 | 1296580 | 7.69 |
| 07 BP-SO-B07-12 | 288881 | 10.76 | 475117 | 13.09 | 1278322 | 7.68 |
| 08 BP-SO-DUP-2 | 290918 | 10.76 | 484786 | 13.09 | 1293542 | 7.69 |
| 09 | | | | | | |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F120311-001 | Work Order #....: LEVD41AC | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 08:15 | Date Received...: 06/12/09 09:58 | MS Run #.....: 9166015 |
| Prep Date.....: 06/15/09 | Analysis Date...: 06/15/09 | |
| Prep Batch #....: 9166026 | Analysis Time...: 11:10 | |
| Dilution Factor: 750 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 19 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 18000 | 6200 | ug/kg | 940 |
| 2-Methylnaphthalene | 44000 | 6200 | ug/kg | 1200 |
| Naphthalene | 710000 | 6200 | ug/kg | 900 |
| Acenaphthylene | 8200 | 6200 | ug/kg | 1200 |
| Acenaphthene | 8200 | 6200 | ug/kg | 990 |
| Fluorene | 10000 | 6200 | ug/kg | 930 |
| Phenanthrene | 12000 | 6200 | ug/kg | 740 |
| Anthracene | 1900 J | 31000 | ug/kg | 1100 |
| Fluoranthene | 3200 J | 6200 | ug/kg | 520 |
| Pyrene | 2800 J | 6200 | ug/kg | 1600 |
| Benzo(a)anthracene | ND | 6200 | ug/kg | 990 |
| Chrysene | ND | 6200 | ug/kg | 1100 |
| Benzo(b)fluoranthene | ND | 6200 | ug/kg | 1300 |
| Benzo(k)fluoranthene | ND | 6200 | ug/kg | 1300 |
| Benzo(a)pyrene | ND | 6200 | ug/kg | 1700 |
| Indeno(1,2,3-cd)pyrene | ND | 6200 | ug/kg | 340 |
| Dibenzo(a,h)anthracene | ND | 6200 | ug/kg | 1400 |
| Benzo(ghi)perylene | ND | 6200 | ug/kg | 450 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-002 Work Order #....: LEVER1AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 09:00 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 11:30
 Dilution Factor: 750 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 26 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 16000 | 6800 | ug/kg | 1000 |
| 2-Methylnaphthalene | 40000 | 6800 | ug/kg | 1300 |
| Naphthalene | 720000 | 6800 | ug/kg | 980 |
| Acenaphthylene | 8400 | 6800 | ug/kg | 1300 |
| Acenaphthene | 2000 J | 6800 | ug/kg | 1100 |
| Fluorene | 9100 | 6800 | ug/kg | 1000 |
| Phenanthrene | 8500 | 6800 | ug/kg | 810 |
| Anthracene | 1200 J | 34000 | ug/kg | 1200 |
| Fluoranthene | 2100 J | 6800 | ug/kg | 570 |
| Pyrene | ND | 6800 | ug/kg | 1800 |
| Benzo(a)anthracene | ND | 6800 | ug/kg | 1100 |
| Chrysene | ND | 6800 | ug/kg | 1200 |
| Benzo(b)fluoranthene | ND | 6800 | ug/kg | 1400 |
| Benzo(k)fluoranthene | ND | 6800 | ug/kg | 1400 |
| Benzo(a)pyrene | ND | 6800 | ug/kg | 1900 |
| Indeno(1,2,3-cd)pyrene | ND | 6800 | ug/kg | 370 |
| Dibenzo(a,h)anthracene | ND | 6800 | ug/kg | 1500 |
| Benzo(ghi)perylene | ND | 6800 | ug/kg | 500 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F120311-003 | Work Order #....: LEVE51AC | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 09:40 | Date Received...: 06/12/09 09:58 | MS Run #.....: 9166015 |
| Prep Date.....: 06/15/09 | Analysis Date...: 06/15/09 | |
| Prep Batch #....: 9166026 | Analysis Time...: 11:51 | |
| Dilution Factor: 5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 37 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1000 | 53 | ug/kg | 8.0 |
| 2-Methylnaphthalene | 2600 | 53 | ug/kg | 10 |
| Naphthalene | 16000 E | 53 | ug/kg | 7.7 |
| Acenaphthylene | 610 | 53 | ug/kg | 11 |
| Acenaphthene | 160 | 53 | ug/kg | 8.5 |
| Fluorene | 580 | 53 | ug/kg | 8.0 |
| Phenanthrene | 860 | 53 | ug/kg | 6.3 |
| Anthracene | 120 J | 260 | ug/kg | 9.3 |
| Fluoranthene | 260 | 53 | ug/kg | 4.5 |
| Pyrene | 220 | 53 | ug/kg | 14 |
| Benzo (a) anthracene | 84 | 53 | ug/kg | 8.4 |
| Chrysene | 80 | 53 | ug/kg | 9.2 |
| Benzo (b) fluoranthene | 87 | 53 | ug/kg | 11 |
| Benzo (k) fluoranthene | ND | 53 | ug/kg | 11 |
| Benzo (a) pyrene | 65 | 53 | ug/kg | 15 |
| Indeno (1,2,3-cd) pyrene | 34 J | 53 | ug/kg | 2.9 |
| Dibenzo (a,h) anthracene | ND | 53 | ug/kg | 12 |
| Benzo (ghi) perylene | 37 J | 53 | ug/kg | 3.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 53 | (27 - 110) |
| Terphenyl-d14 | 52 | (21 - 130) |
| 2-Fluorobiphenyl | 47 | (28 - 108) |
| 2-Fluorophenol | 33 | (28 - 107) |
| Phenol-d5 | 49 | (30 - 112) |
| 2,4,6-Tribromophenol | 2.2 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16 *pl*

GC/MS Semivolatiles

Lot-Sample #...: C9F120311-003 Work Order #...: LEVE52AC Matrix.....: SOLID
 Date Sampled...: 06/11/09 09:40 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #...: 9166026 Analysis Time...: 13:31
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 37 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1100 | 530 | ug/kg | 80 |
| 2-Methylnaphthalene | 2700 | 530 | ug/kg | 100 |
| Naphthalene | 34000 | 530 | ug/kg | 77 |
| Acenaphthylene | 680 | 530 | ug/kg | 110 |
| Acenaphthene | 170 J | 530 | ug/kg | 85 |
| Fluorene | 740 | 530 | ug/kg | 80 |
| Phenanthrene | 910 | 530 | ug/kg | 63 |
| Anthracene | 150 J | 2600 | ug/kg | 93 |
| Fluoranthene | 270 J | 530 | ug/kg | 45 |
| Pyrene | 230 J | 530 | ug/kg | 140 |
| Benzo (a) anthracene | ND | 530 | ug/kg | 84 |
| Chrysene | ND | 530 | ug/kg | 92 |
| Benzo (b) fluoranthene | ND | 530 | ug/kg | 110 |
| Benzo (k) fluoranthene | ND | 530 | ug/kg | 110 |
| Benzo (a) pyrene | ND | 530 | ug/kg | 150 |
| Indeno (1,2,3-cd) pyrene | ND | 530 | ug/kg | 29 |
| Dibenzo (a,h) anthracene | ND | 530 | ug/kg | 120 |
| Benzo (ghi) perylene | ND | 530 | ug/kg | 39 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F120311-004 | Work Order #....: LEVF31AC | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 13:30 | Date Received...: 06/12/09 09:58 | MS Run #.....: 9166015 |
| Prep Date.....: 06/15/09 | Analysis Date...: 06/15/09 | |
| Prep Batch #....: 9166026 | Analysis Time...: 12:11 | |
| Dilution Factor: 99.34 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 16 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 11000 | 790 | ug/kg | 120 |
| 2-Methylnaphthalene | 29000 | 790 | ug/kg | 160 |
| Naphthalene | 200000 | 790 | ug/kg | 110 |
| Acenaphthylene | 8700 | 790 | ug/kg | 160 |
| Acenaphthene | 1900 | 790 | ug/kg | 130 |
| Fluorene | 6800 | 790 | ug/kg | 120 |
| Phenanthrene | 7200 | 790 | ug/kg | 94 |
| Anthracene | 1100 J | 3900 | ug/kg | 140 |
| Fluoranthene | 1400 | 790 | ug/kg | 67 |
| Pyrene | 1400 | 790 | ug/kg | 210 |
| Benzo (a) anthracene | 460 J | 790 | ug/kg | 130 |
| Chrysene | 440 J | 790 | ug/kg | 140 |
| Benzo (b) fluoranthene | 270 J | 790 | ug/kg | 160 |
| Benzo (k) fluoranthene | ND | 790 | ug/kg | 160 |
| Benzo (a) pyrene | 300 J | 790 | ug/kg | 220 |
| Indeno (1,2,3-cd) pyrene | ND | 790 | ug/kg | 43 |
| Dibenzo (a,h) anthracene | ND | 790 | ug/kg | 170 |
| Benzo (ghi) perylene | ND | 790 | ug/kg | 58 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12 *DL*

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9F120311-004 | Work Order #....: LEVF32AC | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 13:30 | Date Received...: 06/12/09 09:58 | MS Run #.....: 9166015 |
| Prep Date.....: 06/15/09 | Analysis Date...: 06/16/09 | |
| Prep Batch #....: 9166026 | Analysis Time...: 12:08 | |
| Dilution Factor: 496.69 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 16 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 11000 | 4000 | ug/kg | 600 |
| 2-Methylnaphthalene | 29000 | 4000 | ug/kg | 780 |
| Naphthalene | 420000 | 4000 | ug/kg | 570 |
| Acenaphthylene | 9400 | 4000 | ug/kg | 780 |
| Acenaphthene | 2400 J | 4000 | ug/kg | 630 |
| Fluorene | 7400 | 4000 | ug/kg | 590 |
| Phenanthrene | 7900 | 4000 | ug/kg | 470 |
| Anthracene | 1300 J | 19000 | ug/kg | 690 |
| Fluoranthene | 1700 J | 4000 | ug/kg | 330 |
| Pyrene | 1500 J | 4000 | ug/kg | 1000 |
| Benzo (a) anthracene | ND | 4000 | ug/kg | 630 |
| Chrysene | ND | 4000 | ug/kg | 690 |
| Benzo (b) fluoranthene | ND | 4000 | ug/kg | 800 |
| Benzo (k) fluoranthene | ND | 4000 | ug/kg | 820 |
| Benzo (a) pyrene | ND | 4000 | ug/kg | 1100 |
| Indeno (1,2,3-cd) pyrene | ND | 4000 | ug/kg | 220 |
| Dibenzo (a,h) anthracene | ND | 4000 | ug/kg | 870 |
| Benzo (ghi) perylene | ND | 4000 | ug/kg | 290 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Semivolatiles

| | | |
|--|---|---------------------------------|
| Lot-Sample #....: C9F120311-005 | Work Order #....: LEVGCLAC | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 09:58 | MS Run #.....: 9166015 |
| Prep Date.....: 06/15/09 | Analysis Date...: 06/15/09 | |
| Prep Batch #....: 9166026 | Analysis Time...: 12:31 | |
| Dilution Factor: 198.68 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 24 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 11000 | 1700 | ug/kg | 260 |
| 2-Methylnaphthalene | 28000 | 1700 | ug/kg | 340 |
| Naphthalene | 340000 | 1700 | ug/kg | 250 |
| Acenaphthylene | 6300 | 1700 | ug/kg | 350 |
| Acenaphthene | 1300 J | 1700 | ug/kg | 280 |
| Fluorene | 7000 | 1700 | ug/kg | 260 |
| Phenanthrene | 5800 | 1700 | ug/kg | 210 |
| Anthracene | 780 J | 8600 | ug/kg | 310 |
| Fluoranthene | 1500 J | 1700 | ug/kg | 150 |
| Pyrene | 1300 J | 1700 | ug/kg | 460 |
| Benzo (a) anthracene | ND | 1700 | ug/kg | 280 |
| Chrysene | ND | 1700 | ug/kg | 300 |
| Benzo (b) fluoranthene | ND | 1700 | ug/kg | 350 |
| Benzo (k) fluoranthene | ND | 1700 | ug/kg | 360 |
| Benzo (a) pyrene | ND | 1700 | ug/kg | 490 |
| Indeno (1,2,3-cd) pyrene | ND | 1700 | ug/kg | 96 |
| Dibenzo (a,h) anthracene | ND | 1700 | ug/kg | 380 |
| Benzo (ghi) perylene | ND | 1700 | ug/kg | 130 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120311

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B06-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-B06-12 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B06-16 | 53 | 52 | 47 | 33 | 49 | 2.2* | 01 |
| 04 | BP-SO-B06-16 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B07-12 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | BP-SO-B07-12 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 07 | BP-SO-DUP-2 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | METHOD BLK. LEXDN1AA | 70 | 78 | 63 | 66 | 71 | 65 | 00 |
| 09 | LCS LEXDN1AC | 93 | 91 | 88 | 92 | 91 | 95 | 00 |
| 10 | BP-SO-B06-12 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 11 | BP-SO-B06-12 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F150000

WO #: LEXDN1AC

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 295 | 88 | 39- 105 | |
| 2-Chlorophenol | 333 | 279 | 84 | 40- 105 | |
| 1,4-Dichlorobenzene | 333 | 276 | 83 | 41- 101 | |
| N-Nitrosodi-n-propylamine | 333 | 286 | 86 | 42- 108 | |
| 1,2,4-Trichlorobenzene | 333 | 268 | 80 | 41- 105 | |
| 4-Chloro-3-methylphenol | 333 | 270 | 81 | 43- 110 | |
| Acenaphthene | 333 | 276 | 83 | 42- 104 | |
| 4-Nitrophenol | 333 | 295 | 88 | 27- 131 | |
| 2,4-Dinitrotoluene | 333 | 294 | 88 | 48- 118 | |
| Pentachlorophenol | 333 | 284 | 85 | 18- 125 | |
| Pyrene | 333 | 278 | 83 | 39- 113 | |
| 4-Methylphenol | 667 | 553 | 83 | 43- 107 | |
| Hexachloroethane | 333 | 273 | 82 | 40- 102 | |
| Naphthalene | 333 | 274 | 82 | 42- 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 277 | 83 | 43- 111 | |
| Butyl benzyl phthalate | 333 | 286 | 86 | 40- 117 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B06-12

Level: (low/med) LOW

Lot #: C9F120311

WO #: LEVER1AV

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 451 | ND | | 0* | 39- 105 | NC DIL |
| 2-Chlorophenol | 451 | ND | | 0* | 40- 105 | NC DIL |
| 1,4-Dichlorobenzene | 451 | ND | | 0* | 41- 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 451 | ND | | 0* | 42- 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 451 | ND | | 0* | 41- 105 | NC DIL |
| 4-Chloro-3-methylphenol | 451 | ND | | 0* | 43- 110 | NC DIL |
| Acenaphthene | 451 | 2000 | | 0* | 42- 104 | NC DIL |
| 4-Nitrophenol | 451 | ND | | 0* | 27- 131 | NC DIL |
| 2,4-Dinitrotoluene | 451 | ND | | 0* | 48- 118 | NC DIL |
| Pentachlorophenol | 451 | ND | | 0* | 18- 125 | NC DIL |
| Pyrene | 451 | ND | | 0* | 39- 113 | NC DIL |
| 4-Methylphenol | 903 | ND | | 0* | 43- 107 | NC DIL |
| Hexachloroethane | 451 | ND | | 0* | 40- 102 | NC DIL |
| Naphthalene | 451 | 720000 | | 0* | 42- 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 451 | ND | | 0* | 43- 111 | NC DIL |
| Butyl benzyl phthalate | 451 | ND | | 0* | 40- 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B06-12

Level: (low/med) LOW

Lot #: C9F120311

WO #: LEVERIAW

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|---------|--------|
| Phenol | 451 | | 0* | | 40 | 39- 105 | NC DIL |
| 2-Chlorophenol | 451 | | 0* | | 37 | 40- 105 | NC DIL |
| 1,4-Dichlorobenzene | 451 | | 0* | | 32 | 41- 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 451 | | 0* | | 32 | 42- 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 451 | | 0* | | 36 | 41- 105 | NC DIL |
| 4-Chloro-3-methylphenol | 451 | | 0* | | 31 | 43- 110 | NC DIL |
| Acenaphthene | 451 | | 0* | | 34 | 42- 104 | NC DIL |
| 4-Nitrophenol | 451 | | 0* | | 33 | 27- 131 | NC DIL |
| 2,4-Dinitrotoluene | 451 | | 0* | | 33 | 48- 118 | NC DIL |
| Pentachlorophenol | 451 | | 0* | | 34 | 18- 125 | NC DIL |
| Pyrene | 451 | | 0* | | 28 | 39- 113 | NC DIL |
| 4-Methylphenol | 903 | | 0* | | 36 | 43- 107 | NC DIL |
| Hexachloroethane | 451 | | 0* | | 34 | 40- 102 | NC DIL |
| Naphthalene | 451 | | 0* | | 25 | 42- 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 451 | | 0* | | 20 | 43- 111 | NC DIL |
| Butyl benzyl phthalate | 451 | | 0* | | 34 | 40- 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEXDN1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0615006.

Lot Number: C9F120311

Date Analyzed: 06/15/09

Time Analyzed: 10:30

Matrix: SOLID

Date Extracted:06/15/09

GC Column: DB5

ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B06-8 | LEV41AC | N0615008. | 06/15/09 | 11:10 |
| 02 | BP-SO-B06-12 | LEVER1AC | N0615009. | 06/15/09 | 11:30 |
| 03 | BP-SO-B06-12 | LEVER1AV S | N0615010. | 06/15/09 | 14:31 |
| 04 | BP-SO-B06-12 | LEVER1AW D | N0615011. | 06/15/09 | 14:50 |
| 05 | BP-SO-B06-16 | LEVE51AC | N0615012. | 06/15/09 | 11:51 |
| 06 | BP-SO-B06-16 DL | LEVE52AC | N0615019. | 06/15/09 | 13:31 |
| 07 | BP-SO-B07-12 | LEV31AC | N0615013. | 06/15/09 | 12:11 |
| 08 | BP-SO-B07-12 DL | LEV32AC | N0616001. | 06/16/09 | 12:08 |
| 09 | BP-SO-DUP-2 | LEVGC1AC | N0615014. | 06/15/09 | 12:31 |
| 10 | CHECK SAMPLE | LEXDN1AC C | N0615007. | 06/15/09 | 10:50 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
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| 23 | | | | | |
| 24 | | | | | |
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| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9F120311
MB Lot-Sample #: C9F150000-026

Work Order #...: LEXDN1AA

Matrix.....: SOLID

Analysis Date...: 06/15/09

Prep Date.....: 06/15/09

Analysis Time...: 10:30

Dilution Factor: 0.5

Prep Batch #...: 9166026

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 733

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 70 | (27 - 110) |
| Terphenyl-d14 | 78 | (21 - 130) |
| 2-Fluorobiphenyl | 63 | (28 - 108) |
| 2-Fluorophenol | 66 | (28 - 107) |
| Phenol-d5 | 71 | (30 - 112) |
| 2,4,6-Tribromophenol | 65 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F120311
 Lab File ID (Standard): N06150CC Date Analyzed: 06/15/09
 Instrument ID: 733 Time Analyzed: 0807

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 184765 | 4.46 | 738774 | 5.43 | 441452 | 6.78 |
| UPPER LIMIT | 369530 | 4.96 | 1477548 | 5.93 | 882904 | 7.28 |
| LOWER LIMIT | 92383 | 3.96 | 369387 | 4.93 | 220726 | 6.28 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 189585 | 4.45 | 758021 | 5.43 | 454950 | 6.77 |
| 02 INTRA-LAB CH | 183659 | 4.45 | 736202 | 5.43 | 420424 | 6.77 |
| 03 BP-SO-B06-8 | 189160 | 4.46 | 755429 | 5.43 | 447988 | 6.77 |
| 04 BP-SO-B06-12 | 194688 | 4.45 | 800207 | 5.42 | 488286 | 6.77 |
| 05 BP-SO-B06-16 | 168645 | 4.46 | 691396 | 5.43 | 419746 | 6.77 |
| 06 BP-SO-B07-12 | 201767 | 4.45 | 820173 | 5.42 | 489767 | 6.77 |
| 07 BP-SO-DUP-2 | 205592 | 4.45 | 826922 | 5.42 | 483605 | 6.77 |
| 08 BP-SO-B06-16 | 171741 | 4.45 | 699746 | 5.42 | 424554 | 6.76 |
| 09 BP-SO-B06-12 | 195388 | 4.45 | 794602 | 5.42 | 456604 | 6.76 |
| 10 BP-SO-B06-12 | 184250 | 4.45 | 735649 | 5.42 | 439763 | 6.77 |
| 11 | | | | | | |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9F120311
Lab File ID (Standard): N06150CC Date Analyzed: 06/15/09
Instrument ID: 733 Time Analyzed: 0807

| | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 720303 | 7.92 | 501698 | 9.96 | 340976 | 11.30 |
| UPPER LIMIT | 1440606 | 8.42 | 1003396 | 10.46 | 681952 | 11.80 |
| LOWER LIMIT | 360152 | 7.42 | 250849 | 9.46 | 170488 | 10.80 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 742629 | 7.92 | 469976 | 9.95 | 337694 | 11.29 |
| 02 INTRA-LAB CH | 660764 | 7.92 | 466561 | 9.96 | 327307 | 11.29 |
| 03 BP-SO-B06-8 | 713103 | 7.91 | 478072 | 9.95 | 336650 | 11.29 |
| 04 BP-SO-B06-12 | 747970 | 7.91 | 488379 | 9.95 | 345121 | 11.28 |
| 05 BP-SO-B06-16 | 672147 | 7.91 | 453594 | 9.95 | 344931 | 11.29 |
| 06 BP-SO-B07-12 | 786641 | 7.91 | 532860 | 9.94 | 401340 | 11.27 |
| 07 BP-SO-DUP-2 | 766712 | 7.90 | 529741 | 9.94 | 381909 | 11.27 |
| 08 BP-SO-B06-16 | 678501 | 7.91 | 460848 | 9.94 | 331077 | 11.28 |
| 09 BP-SO-B06-12 | 722987 | 7.91 | 474604 | 9.94 | 347322 | 11.28 |
| 10 BP-SO-B06-12 | 689090 | 7.90 | 449254 | 9.94 | 319907 | 11.27 |
| 11 | | | | | | |
| 12 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F120311

Lab File ID (Standard): N06160CC

Date Analyzed: 06/16/09

Instrument ID: 733

Time Analyzed: 1047

| | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 116227 | 4.44 | 463044 | 5.41 | 271649 | 6.76 |
| UPPER LIMIT | 232454 | 4.94 | 926088 | 5.91 | 543298 | 7.26 |
| LOWER LIMIT | 58114 | 3.94 | 231522 | 4.91 | 135825 | 6.26 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B07-12 | 137747 | 4.44 | 558492 | 5.41 | 332365 | 6.75 |
| 02 | | | | | | |
| 03 | | | | | | |
| 04 | | | | | | |
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| 22 | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F120311

Lab File ID (Standard): N06160CC

Date Analyzed: 06/16/09

Instrument ID: 733

Time Analyzed: 1047

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 449510 | 7.90 | 340150 | 9.94 | 255114 | 11.26 |
| UPPER LIMIT | 899020 | 8.40 | 680300 | 10.44 | 510228 | 11.76 |
| LOWER LIMIT | 224755 | 7.40 | 170075 | 9.44 | 127557 | 10.76 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B07-12 | 548072 | 7.90 | 409649 | 9.93 | 321958 | 11.25 |
| 02 | | | | | | |
| 03 | | | | | | |
| 04 | | | | | | |
| 05 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

TOTAL Metals

Lot-Sample #...: C9F120311-001

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 19

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|-----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #... : 9166028 | | | | | | |
| Mercury | 4.3 | 0.20 | mg/kg | SW846 7471A | 06/15/09 | LEVD41AR |
| | | Dilution Factor: 5 | | Analysis Time...: 10:57 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0067 | |
| Prep Batch #... : 9167090 | | | | | | |
| Silver | 0.097 E | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0024 | |
| Arsenic | 5.4 J | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.011 | |
| Beryllium | 2.6 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0046 | |
| Cadmium | 0.51 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0043 | |
| Chromium | 44.5 J,E | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0038 | |
| Copper | 40.8 | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.020 | |
| Nickel | 23.5 E | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0070 | |
| Lead | 84.2 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0024 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

TOTAL Metals

Lot-Sample #...: C9F120311-001

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Antimony | 0.44 | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0016 | |
| Selenium | 2.2 | 0.31 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.031 | |
| Thallium | 0.20 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0012 | |
| Zinc | 89.4 | 0.31 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.040 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

TOTAL Metals

Lot-Sample #...: C9F120311-002

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 26

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------------------|--------------|---------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... : 9166028 | | | | | | |
| Mercury | 0.27 | 0.022 | mg/kg | SW846 7471A | 06/15/09 | LEVER1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0074 | |
| Prep Batch #... : 9167090 | | | | | | |
| Silver | 0.092 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |
| Arsenic | 1.1 J | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.012 | |
| Beryllium | 3.5 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0051 | |
| Cadmium | 0.37 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0047 | |
| Chromium | 4.3 J | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0041 | |
| Copper | 12.7 | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.022 | |
| Nickel | 2.0 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0077 | |
| Lead | 3.9 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

TOTAL Metals

Lot-Sample #...: C9F120311-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Antimony | 0.046 B | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AL |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0018 | |
| Selenium | 2.5 | 0.34 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.034 | |
| Thallium | 0.027 B | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AN |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0014 | |
| Zinc | 7.7 | 0.34 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.044 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

TOTAL Metals

Lot-Sample #...: C9F120311-003

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 37

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 0.10 | 0.026 | mg/kg | SW846 7471A | 06/15/09 | LEVE51AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:29 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0086 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.13 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0031 | |
| Arsenic | 2.5 J | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.014 | |
| Beryllium | 5.2 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0059 | |
| Cadmium | 0.47 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0055 | |
| Chromium | 3.7 J | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0048 | |
| Copper | 14.7 | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.026 | |
| Nickel | 1.1 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0090 | |
| Lead | 6.8 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0030 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

TOTAL Metals

Lot-Sample #...: C9F120311-003

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Antimony | 0.13 B | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AL |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0021 | |
| Selenium | 2.6 | 0.40 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.040 | |
| Thallium | 0.013 B | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AN |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0016 | |
| Zinc | 6.7 | 0.40 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.051 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

TOTAL Metals

Lot-Sample #...: C9F120311-004

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------------------|--------------|---------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... : 9166028 | | | | | | |
| Mercury | 0.25 | 0.020 | mg/kg | SW846 7471A | 06/15/09 | LEV31AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:34 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0065 | |
| Prep Batch #... : 9167090 | | | | | | |
| Silver | 0.097 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0023 | |
| Arsenic | 1.8 J | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.011 | |
| Beryllium | 4.2 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0045 | |
| Cadmium | 0.40 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0042 | |
| Chromium | 1.9 J | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0036 | |
| Copper | 11.6 | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.020 | |
| Nickel | 0.30 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0067 | |
| Lead | 1.6 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0023 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

TOTAL Metals

Lot-Sample #...: C9F120311-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------------|-------------------------|--------------|------------------------|-------------------------------|-----------------|
| Antimony | 0.041 B | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AL |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0015 | |
| Selenium | 2.8 | 0.30 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.030 | |
| Thallium | 0.0036 B | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AN |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0012 | |
| Zinc | 2.4 | 0.30 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.039 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

TOTAL Metals

Lot-Sample #...: C9F120311-005

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 24

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|----------------------------------|---------------|----------------------------------|--------------|-------------------------|---|-------------------------------|
| Prep Batch #... : 9166028 | | | | | | |
| Mercury | 0.25 | 0.022 | mg/kg | SW846 7471A | 06/15/09 | LEVGC1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:36 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0072 | |
| Prep Batch #... : 9167090 | | | | | | |
| Silver | 0.11 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |
| Arsenic | 1.5 J | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.012 | |
| Beryllium | 3.5 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0049 | |
| Cadmium | 0.41 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0046 | |
| Chromium | 3.5 J | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0040 | |
| Copper | 12.5 | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.022 | |
| Nickel | 3.5 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0074 | |
| Lead | 3.4 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0025 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

TOTAL Metals

Lot-Sample #...: C9F120311-005

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-----------------|----------------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Antimony | 0.037 B | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AL |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0017 | |
| Selenium | 1.9 | 0.33 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.033 | |
| Thallium | 0.0062 B | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AN |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0013 | |
| Zinc | 5.0 | 0.33 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.043 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| REPORTING | | | | PREPARATION- | WORK | |
|---|---------|-------------------------|-------|-------------------------|----------------|-----------------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| MB Lot-Sample #: C9F150000-028 Prep Batch #...: 9166028 | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/15/09 | LEXEF1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 09:22 | | Analyst ID.....: 031043 | | Instrument ID...: HGH |
| MB Lot-Sample #: C9F160000-090 Prep Batch #...: 9167090 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | 0.021 B | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | 0.046 B | 0.10 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 05:29 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|-----------|--------|------------------------|-------|-------------------------|----------------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 05:29 | | Analyst ID.....: 400149 | Instrument ID..: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 05:29 | | Analyst ID.....: 400149 | Instrument ID..: ICP | |
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/16-06/17/09 | LE03C1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time..: 05:29 | | Analyst ID.....: 400149 | Instrument ID..: ICP | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F150000-028 Prep Batch #... : 9166028 | | | | | |
| Mercury | 97 | (80 - 120) | SW846 7471A | 06/15/09 | LEXEF1AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 09:24 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F160000-090 Prep Batch #... : 9167090 | | | | | |
| Arsenic | 90 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AP |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 89 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AQ |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 93 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AR |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 95 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AT |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 92 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AU |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 87 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AV |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 93 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AW |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 92 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1AX |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 98 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1A0 |
| | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------------|--------------------|------------|-------------------------------|--------------|
| Thallium | 90 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1A1 |
| Dilution Factor: 0.5 Analysis Time..: 05:33 Analyst ID.....: 400149 | | | | | |
| Instrument ID..: ICPMS2 | | | | | |
| Zinc | 85 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1A2 |
| Dilution Factor: 0.5 Analysis Time..: 05:33 Analyst ID.....: 400149 | | | | | |
| Instrument ID..: ICPMS2 | | | | | |
| Silver | 99 | (80 - 120) | SW846 6020 | 06/16-06/17/09 | LE03C1A3 |
| Dilution Factor: 0.5 Analysis Time..: 05:33 Analyst ID.....: 400149 | | | | | |
| Instrument ID..: ICPMS2 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F150000-028 Prep Batch #... : 9166028 | | | | | | | |
| Mercury | 0.208 | 0.202 | mg/kg | 97 | SW846 7471A | 06/15/09 | LEXEF1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 09:24 | Analyst ID.....: 031043 | |
| | | | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F160000-090 Prep Batch #... : 9167090 | | | | | | | |
| Arsenic | 2.00 | 1.79 | mg/kg | 90 | SW846 6020 | 06/16-06/17/09 | LE03C1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.23 | mg/kg | 89 | SW846 6020 | 06/16-06/17/09 | LE03C1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.34 | mg/kg | 93 | SW846 6020 | 06/16-06/17/09 | LE03C1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 9.54 | mg/kg | 95 | SW846 6020 | 06/16-06/17/09 | LE03C1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 11.4 | mg/kg | 92 | SW846 6020 | 06/16-06/17/09 | LE03C1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 21.7 | mg/kg | 87 | SW846 6020 | 06/16-06/17/09 | LE03C1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 0.926 | mg/kg | 93 | SW846 6020 | 06/16-06/17/09 | LE03C1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.0 | mg/kg | 92 | SW846 6020 | 06/16-06/17/09 | LE03C1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.492 | mg/kg | 98 | SW846 6020 | 06/16-06/17/09 | LE03C1A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 05:33 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|------------|-------------------------------|-----------------|
| Thallium | 2.50 | 2.26 | mg/kg | 90 | SW846 6020 | 06/16-06/17/09 | LE03C1A1 |
| Dilution Factor: 0.5 Analysis Time...: 05:33 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 25.0 | 21.3 | mg/kg | 85 | SW846 6020 | 06/16-06/17/09 | LE03C1A2 |
| Dilution Factor: 0.5 Analysis Time...: 05:33 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.47 | mg/kg | 99 | SW846 6020 | 06/16-06/17/09 | LE03C1A3 |
| Dilution Factor: 0.5 Analysis Time...: 05:33 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|----------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9F120311-001 Prep Batch #...: 9167090 | | | | | | |
| | | | | | % Moisture.....: 19 | |
| Antimony | 51 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41CC |
| | 43 N | (75 - 125) | 15 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CD |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Arsenic | 0.0 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41AV |
| | 33 N | (75 - 125) | 0.0 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41AW |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Beryllium | 64 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41AX |
| | 85 | (75 - 125) | 14 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41A0 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Cadmium | 86 | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41A1 |
| | 83 | (75 - 125) | 2.7 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41A2 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Chromium | 0.0 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41A3 |
| | 398 N | (75 - 125) | 0.0 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41A4 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Copper | 56 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41A5 |
| | 117 | (75 - 125) | 17 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41A6 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41A9 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| Nickel | 59 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41A7 |
| | 94 * | (75 - 125) | 23 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41A8 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Selenium | 129 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41CE |
| | 167 N | (75 - 125) | 7.6 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CF |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Silver | 92 | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41CL |
| | 88 | (75 - 125) | 4.4 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Thallium | 89 | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41CG |
| | 83 | (75 - 125) | 6.6 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CH |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |
| Zinc | 0.0 N | (75 - 125) | | SW846 6020 | 06/16-06/17/09 | LEVD41CJ |
| | 0.0 N | (75 - 125) | 0.0 (0-20) | SW846 6020 | 06/16-06/17/09 | LEVD41CK |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167045 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9F120311-001 Prep Batch #...: 9167090

% Moisture.....: 19

Antimony

| | | | | | | | | | |
|--|------|--------|-------|----|----|--|------------|----------------|----------|
| 0.44 | 30.9 | 16.1 N | mg/kg | 51 | | | SW846 6020 | 06/16-06/17/09 | LEVD41CC |
| 0.44 | 30.9 | 13.9 N | mg/kg | 43 | 15 | | SW846 6020 | 06/16-06/17/09 | LEVD41CD |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

Arsenic

| | | | | | | | | | |
|--|------|--------|-------|-----|-----|--|------------|----------------|----------|
| 5.4 | 2.47 | 5.16 N | mg/kg | 0.0 | | | SW846 6020 | 06/16-06/17/09 | LEVD41AV |
| 5.4 | 2.47 | 6.24 N | mg/kg | 33 | 0.0 | | SW846 6020 | 06/16-06/17/09 | LEVD41AW |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

Beryllium

| | | | | | | | | | |
|--|------|--------|-------|----|----|--|------------|----------------|----------|
| 2.6 | 3.09 | 4.58 N | mg/kg | 64 | | | SW846 6020 | 06/16-06/17/09 | LEVD41AX |
| 2.6 | 3.09 | 5.24 | mg/kg | 85 | 14 | | SW846 6020 | 06/16-06/17/09 | LEVD41A0 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

Cadmium

| | | | | | | | | | |
|--|------|------|-------|----|-----|--|------------|----------------|----------|
| 0.51 | 3.09 | 3.17 | mg/kg | 86 | | | SW846 6020 | 06/16-06/17/09 | LEVD41A1 |
| 0.51 | 3.09 | 3.08 | mg/kg | 83 | 2.7 | | SW846 6020 | 06/16-06/17/09 | LEVD41A2 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

Chromium

| | | | | | | | | | |
|--|------|--------|-------|-----|-----|--|------------|----------------|----------|
| 44.5 | 12.4 | 43.6 N | mg/kg | 0.0 | | | SW846 6020 | 06/16-06/17/09 | LEVD41A3 |
| 44.5 | 12.4 | 93.7 N | mg/kg | 398 | 0.0 | | SW846 6020 | 06/16-06/17/09 | LEVD41A4 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

Copper

| | | | | | | | | | |
|--|------|--------|-------|-----|----|--|------------|----------------|----------|
| 40.8 | 15.5 | 49.5 N | mg/kg | 56 | | | SW846 6020 | 06/16-06/17/09 | LEVD41A5 |
| 40.8 | 15.5 | 58.9 | mg/kg | 117 | 17 | | SW846 6020 | 06/16-06/17/09 | LEVD41A6 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 05:46 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9167045 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|-------|--------------------------|-----|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 84.2 | 1.24 | 65.2 NC | mg/kg | | | SW846 6020 | 06/16-06/17/09 | LEVD41A9 |
| | 84.2 | 1.24 | 80.9 NC | mg/kg | | | SW846 6020 | 06/16-06/17/09 | LEVD41CA |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |
| Nickel | | | | | | | | | |
| | 23.5 | 30.9 | 41.7 N | mg/kg | 59 | | SW846 6020 | 06/16-06/17/09 | LEVD41A7 |
| | 23.5 | 30.9 | 52.5 * | mg/kg | 94 | 23 | SW846 6020 | 06/16-06/17/09 | LEVD41A8 |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |
| Selenium | | | | | | | | | |
| | 2.2 | 0.619 | 2.98 N | mg/kg | 129 | | SW846 6020 | 06/16-06/17/09 | LEVD41CE |
| | 2.2 | 0.619 | 3.21 N | mg/kg | 167 | 7.6 | SW846 6020 | 06/16-06/17/09 | LEVD41CF |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |
| Silver | | | | | | | | | |
| | 0.097 | 3.09 | 2.94 | mg/kg | 92 | | SW846 6020 | 06/16-06/17/09 | LEVD41CL |
| | 0.097 | 3.09 | 2.82 | mg/kg | 88 | 4.4 | SW846 6020 | 06/16-06/17/09 | LEVD41CM |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.20 | 3.09 | 2.95 | mg/kg | 89 | | SW846 6020 | 06/16-06/17/09 | LEVD41CG |
| | 0.20 | 3.09 | 2.76 | mg/kg | 83 | 6.6 | SW846 6020 | 06/16-06/17/09 | LEVD41CH |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |
| Zinc | | | | | | | | | |
| | 89.4 | 30.9 | 79.1 N | mg/kg | 0.0 | | SW846 6020 | 06/16-06/17/09 | LEVD41CJ |
| | 89.4 | 30.9 | 83.2 N | mg/kg | 0.0 | 0.0 | SW846 6020 | 06/16-06/17/09 | LEVD41CK |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 05:46 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167045 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F120311-005 Prep Batch #...: 9166028

% Moisture.....: 24

| | | | | | | |
|---------|----|------------------------|--|-------------|----------|----------|
| Mercury | 81 | (75 - 125) | | SW846 7471A | 06/15/09 | LEVGC1AV |
| | 83 | (75 - 125) 0.64 (0-20) | | SW846 7471A | 06/15/09 | LEVGC1AW |

Dilution Factor: 0.5

Analysis Time...: 09:37 Instrument ID...: HGHYDRA Analyst ID.....: 031043

MS Run #.....: 9166017

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F120311

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F120311-005 Prep Batch #....: 9166028

% Moisture.....: 24

Mercury

| | | | | | | | | | |
|------|-------|-------|-------|----|------|-------|-------|----------|----------|
| 0.25 | 0.110 | 0.340 | mg/kg | 81 | | SW846 | 7471A | 06/15/09 | LEVGC1AV |
| 0.25 | 0.110 | 0.342 | mg/kg | 83 | 0.64 | SW846 | 7471A | 06/15/09 | LEVGC1AW |

Dilution Factor: 0.5

Analysis Time...: 09:37

Instrument ID...: HGHYDRA

Analyst ID.....: 031043

MS Run #.....: 9166017

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F120311

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B06-8 | C9F120311 001 | LEVD41AT | 14.6 | mg/kg | 0.11 | 0.62 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-B06-12 | C9F120311 002 | LEVER1AT | 30.8 | mg/kg | 0.12 | 0.68 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-B06-16 | C9F120311 003 | LEVE51AT | 57.5 | mg/kg | 1.4 | 7.9 | 10 | 6/15/2009 - 6/16/2009 12:13 | 9166416 |
| BP-SO-B07-12 | C9F120311 004 | LEV31AT | 27.7 | mg/kg | 0.10 | 0.59 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-DUP-2 | C9F120311 005 | LEVGC1AT | 22.1 | mg/kg | 0.11 | 0.66 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F120311

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B06-8 | C9F120311 001 | LEVD41AA | 80.8 | % | 0.0 | 1.0 | 1 | 6/15/2009 - 6/16/2009 07:01 | 9166255 |
| BP-SO-B06-12 | C9F120311 002 | LEVER1AA | 73.8 | % | 0.0 | 1.0 | 1 | 6/15/2009 - 6/16/2009 07:01 | 9166255 |
| BP-SO-B06-16 | C9F120311 003 | LEVE51AA | 63.1 | % | 0.0 | 1.0 | 1 | 6/15/2009 - 6/16/2009 07:01 | 9166255 |
| BP-SO-B07-12 | C9F120311 004 | LEV31AA | 84.1 | % | 0.0 | 1.0 | 1 | 6/15/2009 - 6/16/2009 07:01 | 9166255 |
| BP-SO-DUP-2 | C9F120311 005 | LEVGC1AA | 76.1 | % | 0.0 | 1.0 | 1 | 6/15/2009 - 6/16/2009 07:01 | 9166255 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F120311

Matrix: SOLID

Date/Time Received: 6/5/2009 9:50:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BLK - C9F150000416B | 416 MB | LE0CF1AA | ND | mg/kg | 0.50 | 6/15/2009 - 6/16/2009 11:45 | 9166416 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F120311

Matrix: SOLID

Date/Time Received: 6/12/2009 9:58:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LEVX71AE | 97.0 | % | 1.0 | 6/15/2009 - 6/16/2009 07:01 | 9166255 | 0.52 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F150000
 Date/Time Received: 6/5/2009 9:50:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LE0CF1AC | 95 | 38 - 162 | 6/15/2009 - 6/16/2009 11:45 | 9166416 | |
| LAB MS/MSD | MS | LEFE71CR | 87 | 85 - 115 | 6/15/2009 - 6/16/2009 11:45 | 9166416 | 0.42 / 20 |
| LAB MS/MSD | MS | LEGA51CV | 61 N | 85 - 115 | 6/15/2009 - 6/16/2009 11:53 | 9166416 | 6.1 / 20 |
| LAB MS/MSD | MSD | LEFE71CT | 87 | 85 - 115 | 6/15/2009 - 6/16/2009 11:45 | 9166416 | 0.42 / 20 |
| LAB MS/MSD | MSD | LEGA51CW | 65 N | 85 - 115 | 6/15/2009 - 6/16/2009 11:53 | 9166416 | 6.1 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F120311

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B06-8 | C9F120311-001 | Soil |
| 2 | BP-SO-B06-12 | C9F120311-002 | Soil |
| 3 | BP-SO-B06-16 | C9F120311-003 | Soil |
| 4 | BP-SO-B07-12 | C9F120311-004 | Soil |
| 5 | BP-SO-DUP-2 | C9F120311-005 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B06-12 mg/kg | BP-SO-DUP-2 mg/kg | RPD | Qualifier |
|----------|-----------------------|----------------------|-----|-----------|
| Cyanide | 30.8 | 22.1 | 33% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F120311

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B06-8 | C9F120311 001 | LEVD41AT | 14.6 | mg/kg | 0.11 | 0.62 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-B06-12 | C9F120311 002 | LEVER1AT | 30.8 | mg/kg | 0.12 | 0.68 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-B06-16 | C9F120311 003 | LEVE51AT | 57.5 | mg/kg | 1.4 | 7.9 | 10 | 6/15/2009 - 6/16/2009 12:13 | 9166416 |
| BP-SO-B07-12 | C9F120311 004 | LEV31AT | 27.7 | mg/kg | 0.10 | 0.59 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |
| BP-SO-DUP-2 | C9F120311 005 | LEVGC1AT | 22.1 | mg/kg | 0.11 | 0.66 | 1 | 6/15/2009 - 6/16/2009 12:00 | 9166416 |

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F120311

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B06-8 | C9F120311-001 | Soil |
| 1MS | BP-SO-B06-8MS | C9F120311-001MS | Soil |
| 1MSD | BP-SO-B06-8MSD | C9F120311-001MSD | Soil |
| 2 | BP-SO-B06-12 | C9F120311-002 | Soil |
| 3 | BP-SO-B06-16 | C9F120311-003 | Soil |
| 4 | BP-SO-B07-12 | C9F120311-004 | Soil |
| 5 | BP-SO-DUP-2 | C9F120311-005 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|-----------|---------------|-----------|-----------------------------|
| 1 | Antimony | 51%/43%/Ok | L/UL | All samples |
| | Arsenic | 0%/33%/Ok | L/R | All samples |
| | Beryllium | 64%/Ok/Ok | L/UL | All samples |
| | Chromium | 0%/398%/Ok | None | Already qualified due to SD |
| | Copper | 56%/Ok/Ok | L/UL | All samples |
| | Nickel | 59%/Ok/Ok | None | Already qualified due to SD |
| | Selenium | 129%/167%/Ok | K | All samples |
| | Zinc | 0%/0%/Ok | L/R | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 1 | Chromium | 20.7% | J | All Samples |
| | Nickel | 17.6% | J | All Samples |
| | Silver | 17.6% | J | All Samples |

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B06-12 mg/kg | BP-SO-DUP-2 mg/kg | RPD | Qualifier |
|-----------|-----------------------|----------------------|------|-----------|
| Silver | 0.092 | 0.11 | 18% | None |
| Arsenic | 1.1 | 1.5 | 31% | None |
| Beryllium | 3.5 | 3.5 | 0% | None |
| Cadmium | 0.37 | 0.41 | 10% | None |
| Chromium | 4.3 | 3.5 | 21% | None |
| Copper | 12.7 | 12.5 | 2% | None |
| Nickel | 2.0 | 3.5 | 55% | None |
| Lead | 3.9 | 3.4 | 14% | None |
| Antimony | 0.046 | 0.037 | 22% | None |
| Selenium | 2.5 | 1.9 | 27% | None |
| Thallium | 0.027 | 0.0062 | 125% | None |
| Zinc | 7.7 | 5.0 | 43% | None |
| Mercury | 0.27 | 0.25 | 8% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

TOTAL Metals

Lot-Sample #...: C9F120311-001

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 19

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 4.3 | 0.20 | mg/kg | SW846 7471A | 06/15/09 | LEVD41AR |
| | | Dilution Factor: 5 | | Analysis Time...: 10:57 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0067 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.097 <i>B J</i> | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0024 | |
| Arsenic | 5.4 <i>J L</i> | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.011 | |
| Beryllium | 2.6 <i>L</i> | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0046 | |
| Cadmium | 0.51 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0043 | |
| Chromium | 44.5 <i>J/E J</i> | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0038 | |
| Copper | 40.8 <i>L</i> | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.020 | |
| Nickel | 23.5 <i>B J</i> | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0070 | |
| Lead | 84.2 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0024 | |

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luw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

TOTAL Metals

Lot-Sample #....: C9F120311-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.44 L | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0016 | |
| Selenium | 2.2 K | 0.31 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.031 | |
| Thallium | 0.20 | 0.062 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0012 | |
| Zinc | 89.4 L | 0.31 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVD41AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 05:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.040 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

TOTAL Metals

Lot-Sample #...: C9F120311-002

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 26

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 0.27 | 0.022 | mg/kg | SW846 7471A | 06/15/09 | LEVER1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0074 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.092 J | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |
| Arsenic | 1.1 J L | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.012 | |
| Beryllium | 3.5 L | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0051 | |
| Cadmium | 0.37 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0047 | |
| Chromium | 4.3 J J | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0041 | |
| Copper | 12.7 L | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.022 | |
| Nickel | 2.0 J | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0077 | |
| Lead | 3.9 | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

TOTAL Metals

Lot-Sample #...: C9F120311-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.046 B/L | 0.14 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0018 | |
| Selenium | 2.5 K | 0.34 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.034 | |
| Thallium | 0.027 B J | 0.068 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0014 | |
| Zinc | 7.7 L | 0.34 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVER1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:08 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.044 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

TOTAL Metals

Lot-Sample #...: C9F120311-003

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 37

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 0.10 | 0.026 | mg/kg | SW846 7471A | 06/15/09 | LEVE51AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:29 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0086 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.13 J | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0031 | |
| Arsenic | 2.5 J L | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.024 | |
| Beryllium | 5.2 L | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0059 | |
| Cadmium | 0.47 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0055 | |
| Chromium | 3.7 J | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0048 | |
| Copper | 14.7 L | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.026 | |
| Nickel | 1.1 J | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0090 | |
| Lead | 6.8 | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0030 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

TOTAL Metals

Lot-Sample #...: C9F120311-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.13 B L | 0.16 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0021 | |
| Selenium | 2.6 K | 0.40 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.040 | |
| Thallium | 0.013 B J | 0.079 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0016 | |
| Zinc | 6.7 L | 0.40 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVE51AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:13 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.051 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

hw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

TOTAL Metals

Lot-Sample #...: C9F120311-004

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 0.25 | 0.020 | mg/kg | SW846 7471A | 06/15/09 | LEV31AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:34 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0065 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.097 J | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0023 | |
| Arsenic | 1.8 J L | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.011 | |
| Beryllium | 4.2 L | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0045 | |
| Cadmium | 0.40 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0042 | |
| Chromium | 1.9 J J | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0036 | |
| Copper | 11.6 L | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.020 | |
| Nickel | 0.30 J | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0067 | |
| Lead | 1.6 | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0023 | |

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luw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

TOTAL Metals

Lot-Sample #...: C9F120311-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.041 <i>B/L</i> | 0.12 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0015 | |
| Selenium | 2.8 <i>K</i> | 0.30 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.030 | |
| Thallium | 0.0036 <i>BJ</i> | 0.059 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0012 | |
| Zinc | 2.4 <i>L</i> | 0.30 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEV31AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:17 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.039 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

ms
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

TOTAL Metals

Lot-Sample #...: C9F120311-005

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/12/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9166028 | | | | | | |
| Mercury | 0.25 | 0.022 | mg/kg | SW846 7471A | 06/15/09 | LEVGCIAR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:36 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9166017 | MDL.....: 0.0072 | |
| Prep Batch #...: 9167090 | | | | | | |
| Silver | 0.11 J | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0026 | |
| Arsenic | 1.5 J L | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.012 | |
| Beryllium | 3.5 L | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0049 | |
| Cadmium | 0.41 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0046 | |
| Chromium | 3.5 J J | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0040 | |
| Copper | 12.5 L | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.022 | |
| Nickel | 3.5 J | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0074 | |
| Lead | 3.4 | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0025 | |

(Continued on next page)

AW
8/12/09

5

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

TOTAL Metals

Lot-Sample #...: C9F120311-005

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.037 <i>B L</i> | 0.13 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0017 | |
| Selenium | 1.9 <i>K</i> | 0.33 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.033 | |
| Thallium | 0.0062 <i>B J</i> | 0.066 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.0013 | |
| Zinc | 5.0 <i>L</i> | 0.33 | mg/kg | SW846 6020 | 06/16-06/17/09 | LEVGC1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 06:21 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167045 | MDL.....: 0.043 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

nw
8/12/09

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F120311

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B06-8 | C9F120311-001 | Soil |
| 2 | BP-SO-B06-12 | C9F120311-002 | Soil |
| 2MS | BP-SO-B06-12MS | C9F120311-002MS | Soil |
| 2MSD | BP-SO-B06-12MSD | C9F120311-002MSD | Soil |
| 3 | BP-SO-B06-16 | C9F120311-003 | Soil |
| 3DL | BP-SO-B06-16DL | C9F120311-003DL | Soil |
| 4 | BP-SO-B07-12 | C9F120311-004 | Soil |
| 4DL | BP-SO-B07-12DL | C9F120311-004DL | Soil |
| 5 | BP-SO-DUP-2 | C9F120311-005 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B06-12 ug/kg | BP-SO-DUP-2 ug/kg | RPD | Qualifier |
|---------------------|-----------------------|----------------------|-----|-----------|
| 1-Methylnaphthalene | 16000 | 11000 | 37% | None |
| 2-Methylnaphthalene | 40000 | 28000 | 35% | None |
| Naphthalene | 720000 | 340000 | 72% | None |
| Acenaphthylene | 8400 | 6300 | 29% | None |
| Acenaphthene | 2000 | 1300 | 42% | None |
| Fluorene | 9100 | 7000 | 26% | None |
| Phenanthrene | 8500 | 5800 | 38% | None |
| Anthracene | 1200 | 780 | 42% | None |
| Fluoranthene | 2100 | 1500 | 33% | None |
| Pyrene | 6800 U | 1300 | NC | None |

Compound Quantitation - Several samples exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed these samples. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-001 Work Order #....: LEVD41AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 08:15 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 11:10
 Dilution Factor: 750 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 19 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 18000 | 6200 | ug/kg | 940 |
| 2-Methylnaphthalene | 44000 | 6200 | ug/kg | 1200 |
| Naphthalene | 710000 | 6200 | ug/kg | 900 |
| Acenaphthylene | 8200 | 6200 | ug/kg | 1200 |
| Acenaphthene | 8200 | 6200 | ug/kg | 990 |
| Fluorene | 10000 | 6200 | ug/kg | 930 |
| Phenanthrene | 12000 | 6200 | ug/kg | 740 |
| Anthracene | 1900 J | 31000 | ug/kg | 1100 |
| Fluoranthene | 3200 J | 6200 | ug/kg | 520 |
| Pyrene | 2800 J | 6200 | ug/kg | 1600 |
| Benzo(a)anthracene | ND | 6200 | ug/kg | 990 |
| Chrysene | ND | 6200 | ug/kg | 1100 |
| Benzo(b)fluoranthene | ND | 6200 | ug/kg | 1300 |
| Benzo(k)fluoranthene | ND | 6200 | ug/kg | 1300 |
| Benzo(a)pyrene | ND | 6200 | ug/kg | 1700 |
| Indeno(1,2,3-cd)pyrene | ND | 6200 | ug/kg | 340 |
| Dibenzo(a,h)anthracene | ND | 6200 | ug/kg | 1400 |
| Benzo(ghi)perylene | ND | 6200 | ug/kg | 450 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

mw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-002 Work Order #....: LEVER1AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 09:00 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 11:30
 Dilution Factor: 750 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 26 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 16000 | 6800 | ug/kg | 1000 |
| 2-Methylnaphthalene | 40000 | 6800 | ug/kg | 1300 |
| Naphthalene | 720000 | 6800 | ug/kg | 980 |
| Acenaphthylene | 8400 | 6800 | ug/kg | 1300 |
| Acenaphthene | 2000 J | 6800 | ug/kg | 1100 |
| Fluorene | 9100 | 6800 | ug/kg | 1000 |
| Phenanthrene | 8500 | 6800 | ug/kg | 810 |
| Anthracene | 1200 J | 34000 | ug/kg | 1200 |
| Fluoranthene | 2100 J | 6800 | ug/kg | 570 |
| Pyrene | ND | 6800 | ug/kg | 1800 |
| Benzo(a)anthracene | ND | 6800 | ug/kg | 1100 |
| Chrysene | ND | 6800 | ug/kg | 1200 |
| Benzo(b)fluoranthene | ND | 6800 | ug/kg | 1400 |
| Benzo(k)fluoranthene | ND | 6800 | ug/kg | 1400 |
| Benzo(a)pyrene | ND | 6800 | ug/kg | 1900 |
| Indeno(1,2,3-cd)pyrene | ND | 6800 | ug/kg | 370 |
| Dibenzo(a,h)anthracene | ND | 6800 | ug/kg | 1500 |
| Benzo(ghi)perylene | ND | 6800 | ug/kg | 500 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

AW
8/12/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-003 Work Order #....: LEVE51AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 09:40 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 11:51
 Dilution Factor: 5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 37 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|------------------------------|-----------------|-------|-------------------|
| 1-Methylnaphthalene | 1000 | 53 | ug/kg | 8.0 |
| 2-Methylnaphthalene | 2600 | 53 | ug/kg | 10 |
| Naphthalene | 34000 16000 E 530 | 53 | ug/kg | 1.7 77 |
| Acenaphthylene | 610 | 53 | ug/kg | 11 |
| Acenaphthene | 160 | 53 | ug/kg | 8.5 |
| Fluorene | 580 | 53 | ug/kg | 8.0 |
| Phenanthrene | 860 | 53 | ug/kg | 6.3 |
| Anthracene | 120 J | 260 | ug/kg | 9.3 |
| Fluoranthene | 260 | 53 | ug/kg | 4.5 |
| Pyrene | 220 | 53 | ug/kg | 14 |
| Benzo (a) anthracene | 84 | 53 | ug/kg | 8.4 |
| Chrysene | 80 | 53 | ug/kg | 9.2 |
| Benzo (b) fluoranthene | 87 | 53 | ug/kg | 11 |
| Benzo (k) fluoranthene | ND | 53 | ug/kg | 11 |
| Benzo (a) pyrene | 65 | 53 | ug/kg | 15 |
| Indeno (1,2,3-cd) pyrene | 34 J | 53 | ug/kg | 2.9 |
| Dibenzo (a,h) anthracene | ND | 53 | ug/kg | 12 |
| Benzo (ghi) perylene | 37 J | 53 | ug/kg | 3.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | 53 | (27 - 110) |
| Terphenyl-d14 | 52 | (21 - 130) |
| 2-Fluorobiphenyl | 47 | (28 - 108) |
| 2-Fluorophenol | 33 | (28 - 107) |
| Phenol-d5 | 49 | (30 - 112) |
| 2,4,6-Tribromophenol | 2.2 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

mw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16 PL

GC/MS Semivolatiles

use original

Lot-Sample #....: C9F120311-003 Work Order #....: LEVE52AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 09:40 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 13:31
 Dilution Factor: 50 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 37 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1100 | 530 | ug/kg | 80 |
| 2-Methylnaphthalene | 2700 | 530 | ug/kg | 100 |
| Naphthalene | 34000 | 530 | ug/kg | 77 |
| Acenaphthylene | 680 | 530 | ug/kg | 110 |
| Acenaphthene | 170 J | 530 | ug/kg | 85 |
| Fluorene | 740 | 530 | ug/kg | 80 |
| Phenanthrene | 910 | 530 | ug/kg | 63 |
| Anthracene | 150 J | 2600 | ug/kg | 93 |
| Fluoranthene | 270 J | 530 | ug/kg | 45 |
| Pyrene | 230 J | 530 | ug/kg | 140 |
| Benzo(a)anthracene | ND | 530 | ug/kg | 84 |
| Chrysene | ND | 530 | ug/kg | 92 |
| Benzo(b)fluoranthene | ND | 530 | ug/kg | 110 |
| Benzo(k)fluoranthene | ND | 530 | ug/kg | 110 |
| Benzo(a)pyrene | ND | 530 | ug/kg | 150 |
| Indeno(1,2,3-cd)pyrene | ND | 530 | ug/kg | 29 |
| Dibenzo(a,h)anthracene | ND | 530 | ug/kg | 120 |
| Benzo(ghi)perylene | ND | 530 | ug/kg | 39 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

4

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Semivolatiles

Lot-Sample #...: C9F120311-004 Work Order #...: LEVF31AC Matrix.....: SOLID
 Date Sampled...: 06/11/09 13:30 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #...: 9166026 Analysis Time...: 12:11
 Dilution Factor: 99.34 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------------------|-----------------|-------|---------|
| 1-Methylnaphthalene | 11000 | 790 | ug/kg | 120 |
| 2-Methylnaphthalene | 29000 | 790 | ug/kg | 160 |
| Naphthalene | 420000 200000 4000 | 790 | ug/kg | 110 570 |
| Acenaphthylene | 8700 | 790 | ug/kg | 160 |
| Acenaphthene | 1900 | 790 | ug/kg | 130 |
| Fluorene | 6800 | 790 | ug/kg | 120 |
| Phenanthrene | 7200 | 790 | ug/kg | 94 |
| Anthracene | 1100 J | 3900 | ug/kg | 140 |
| Fluoranthene | 1400 | 790 | ug/kg | 67 |
| Pyrene | 1400 | 790 | ug/kg | 210 |
| Benzo (a) anthracene | 460 J | 790 | ug/kg | 130 |
| Chrysene | 440 J | 790 | ug/kg | 140 |
| Benzo (b) fluoranthene | 270 J | 790 | ug/kg | 160 |
| Benzo (k) fluoranthene | ND | 790 | ug/kg | 160 |
| Benzo (a) pyrene | 300 J | 790 | ug/kg | 220 |
| Indeno (1,2,3-cd) pyrene | ND | 790 | ug/kg | 43 |
| Dibenzo (a,h) anthracene | ND | 790 | ug/kg | 170 |
| Benzo (ghi) perylene | ND | 790 | ug/kg | 58 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than RL.

8/12/09

HDL

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12 DL

use original

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-004 Work Order #....: LEVF32AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 13:30 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/16/09
 Prep Batch #....: 9166026 Analysis Time...: 12:08
 Dilution Factor: 496.69 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 11000 | 4000 | ug/kg | 600 |
| 2-Methylnaphthalene | 29000 | 4000 | ug/kg | 780 |
| Naphthalene | 420000 | 4000 | ug/kg | 570 |
| Acenaphthylene | 9400 | 4000 | ug/kg | 780 |
| Acenaphthene | 2400 J | 4000 | ug/kg | 630 |
| Fluorene | 7400 | 4000 | ug/kg | 590 |
| Phenanthrene | 7900 | 4000 | ug/kg | 470 |
| Anthracene | 1300 J | 19000 | ug/kg | 690 |
| Fluoranthene | 1700 J | 4000 | ug/kg | 330 |
| Pyrene | 1500 J | 4000 | ug/kg | 1000 |
| Benzo(a)anthracene | ND | 4000 | ug/kg | 630 |
| Chrysene | ND | 4000 | ug/kg | 690 |
| Benzo(b)fluoranthene | ND | 4000 | ug/kg | 800 |
| Benzo(k)fluoranthene | ND | 4000 | ug/kg | 820 |
| Benzo(a)pyrene | ND | 4000 | ug/kg | 1100 |
| Indeno(1,2,3-cd)pyrene | ND | 4000 | ug/kg | 220 |
| Dibenzo(a,h)anthracene | ND | 4000 | ug/kg | 870 |
| Benzo(ghi)perylene | ND | 4000 | ug/kg | 290 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

HW
8/11/09

5

Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Semivolatiles

Lot-Sample #....: C9F120311-005 Work Order #....: LEVGC1AC Matrix.....: SOLID
 Date Sampled....: 06/11/09 Date Received...: 06/12/09 09:58 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 12:31
 Dilution Factor: 198.68 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 11000 | 1700 | ug/kg | 260 |
| 2-Methylnaphthalene | 28000 | 1700 | ug/kg | 340 |
| Naphthalene | 340000 | 1700 | ug/kg | 250 |
| Acenaphthylene | 6300 | 1700 | ug/kg | 350 |
| Acenaphthene | 1300 J | 1700 | ug/kg | 280 |
| Fluorene | 7000 | 1700 | ug/kg | 260 |
| Phenanthrene | 5800 | 1700 | ug/kg | 210 |
| Anthracene | 780 J | 8600 | ug/kg | 310 |
| Fluoranthene | 1500 J | 1700 | ug/kg | 150 |
| Pyrene | 1300 J | 1700 | ug/kg | 460 |
| Benzo(a)anthracene | ND | 1700 | ug/kg | 280 |
| Chrysene | ND | 1700 | ug/kg | 300 |
| Benzo(b)fluoranthene | ND | 1700 | ug/kg | 350 |
| Benzo(k)fluoranthene | ND | 1700 | ug/kg | 360 |
| Benzo(a)pyrene | ND | 1700 | ug/kg | 490 |
| Indeno(1,2,3-cd)pyrene | ND | 1700 | ug/kg | 96 |
| Dibenzo(a,h)anthracene | ND | 1700 | ug/kg | 380 |
| Benzo(ghi)perylene | ND | 1700 | ug/kg | 130 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

quw
8/12/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F120311

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B06-8 | C9F120311-001 | Soil |
| 2 | BP-SO-B06-12 | C9F120311-002 | Soil |
| 3 | BP-SO-B06-16 | C9F120311-003 | Soil |
| 4 | BP-SO-B07-12 | C9F120311-004 | Soil |
| 5 | BP-SO-DUP-2 | C9F120311-005 | Soil |
| 6 | TRIP BLANK | C9F120311-006 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-5 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 6 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------|-----------|-----------|-------------------------------|
| 06/18/09 | Acrolein | 0.019 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 37.1% | None | All ND |
| 06/21/09 | Acrylonitrile | 53.8% | J/UJ | 1-5 |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|-------------------------|-----------------|-----------|-------------------------------|
| 06/21/09 | Dichlorodifluoromethane | 48.1% | None | All ND |
| | Chloromethane | 39.9% | None | All ND |
| | Trichlorofluoromethane | 32.9% | None | All ND |
| | Acrolein | 46.9%/0.021 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank -The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate results are summarized below.

| Compound | BP-SO-B06-12 ug/kg | BP-SO-DUP-2 ug/kg | RPD | Qualifier |
|--------------|-----------------------|----------------------|------|-----------|
| Benzene | 1500000 | 1700000 | 13% | None |
| Ethylbenzene | 29000 | 210000 | 151% | J |
| Toluene | 770000 | 480000 | 46% | None |

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Volatiles

Lot-Sample #....: C9F120311-001 Work Order #....: LEVD41AU Matrix.....: SOLID
 Date Sampled....: 06/11/09 Date Received...: 06/12/09 MS Run #.....:
 Prep Date.....: 06/21/09 Analysis Date...: 06/21/09
 Prep Batch #....: 9173046 Analysis Time...: 19:25
 Dilution Factor: 98.42 Initial Wgt/Vol: 5.08 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 19 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------------|--------------------|-------|-------|
| Acrolein | ND R | 610000 | ug/kg | 97000 |
| Acrylonitrile | ND UJ | 610000 | ug/kg | 49000 |
| Benzene | 440000 | 30000 | ug/kg | 6000 |
| Bromodichloromethane | ND | 30000 | ug/kg | 5700 |
| Bromoform | ND | 30000 | ug/kg | 6500 |
| Bromomethane | ND | 30000 | ug/kg | 9600 |
| 2-Butanone (MEK) | ND | 30000 | ug/kg | 6600 |
| Carbon tetrachloride | ND | 30000 | ug/kg | 6600 |
| Chloroethane | ND | 30000 | ug/kg | 4500 |
| 2-Chloroethyl vinyl ether | ND | 61000 | ug/kg | 6700 |
| Chloroform | ND | 30000 | ug/kg | 6100 |
| Chloromethane | ND | 30000 | ug/kg | 5700 |
| Dibromochloromethane | ND | 30000 | ug/kg | 3900 |
| 1,2-Dichlorobenzene | ND | 30000 | ug/kg | 4200 |
| 1,3-Dichlorobenzene | ND | 30000 | ug/kg | 3100 |
| 1,4-Dichlorobenzene | ND | 30000 | ug/kg | 3200 |
| trans-1,2-Dichloroethene | ND | 30000 | ug/kg | 4600 |
| Dichlorodifluoromethane | ND | 30000 | ug/kg | 3900 |
| 1,1-Dichloroethane | ND | 30000 | ug/kg | 6200 |
| 1,2-Dichloroethane | ND | 30000 | ug/kg | 5800 |
| 1,1-Dichloroethene | ND | 30000 | ug/kg | 6500 |
| 1,2-Dichloropropane | ND | 30000 | ug/kg | 7800 |
| cis-1,3-Dichloropropene | ND | 30000 | ug/kg | 4400 |
| trans-1,3-Dichloropropene | ND | 30000 | ug/kg | 3500 |
| Ethylbenzene | 5500 J | 30000 | ug/kg | 3800 |
| Methylene chloride | ND | 30000 | ug/kg | 6600 |
| 1,1,2,2-Tetrachloroethane | ND | 30000 | ug/kg | 5700 |
| Tetrachloroethene | ND | 30000 | ug/kg | 5000 |
| Toluene | 170000 | 30000 | ug/kg | 5100 |
| 1,1,1-Trichloroethane | ND | 30000 | ug/kg | 6300 |
| 1,1,2-Trichloroethane | ND | 30000 | ug/kg | 7100 |
| Trichloroethene | ND | 30000 | ug/kg | 4900 |
| Trichlorofluoromethane | ND | 30000 | ug/kg | 6800 |
| Vinyl chloride | ND | 30000 | ug/kg | 7900 |

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LW
 8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-8

GC/MS Volatiles

Lot-Sample #...: C9F120311-001 Work Order #...: LEVD41AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 103 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 108 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

NW
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Volatiles

Lot-Sample #....: C9F120311-002 Work Order #....: LEVER1AU Matrix.....: SOLID
 Date Sampled....: 06/11/09 Date Received...: 06/12/09 MS Run #.....:
 Prep Date.....: 06/21/09 Analysis Date...: 06/21/09
 Prep Batch #....: 9173046 Analysis Time...: 19:49
 Dilution Factor: 483.56 Initial Wgt/Vol: 5.17 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 26 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------|-----------------|-------|--------|
| Acrolein | ND R | 3300000 | ug/kg | 520000 |
| Acrylonitrile | ND UJ | 3300000 | ug/kg | 270000 |
| Benzene | 1500000 | 160000 | ug/kg | 32000 |
| Bromodichloromethane | ND | 160000 | ug/kg | 30000 |
| Bromoform | ND | 160000 | ug/kg | 35000 |
| Bromomethane | ND | 160000 | ug/kg | 52000 |
| 2-Butanone (MEK) | ND | 160000 | ug/kg | 36000 |
| Carbon tetrachloride | ND | 160000 | ug/kg | 35000 |
| Chloroethane | ND | 160000 | ug/kg | 24000 |
| 2-Chloroethyl vinyl ether | ND | 330000 | ug/kg | 36000 |
| Chloroform | ND | 160000 | ug/kg | 33000 |
| Chloromethane | ND | 160000 | ug/kg | 30000 |
| Dibromochloromethane | ND | 160000 | ug/kg | 21000 |
| 1,2-Dichlorobenzene | ND | 160000 | ug/kg | 22000 |
| 1,3-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| 1,4-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| trans-1,2-Dichloroethene | ND | 160000 | ug/kg | 25000 |
| Dichlorodifluoromethane | ND | 160000 | ug/kg | 21000 |
| 1,1-Dichloroethane | ND | 160000 | ug/kg | 33000 |
| 1,2-Dichloroethane | ND | 160000 | ug/kg | 31000 |
| 1,1-Dichloroethene | ND | 160000 | ug/kg | 35000 |
| 1,2-Dichloropropane | ND | 160000 | ug/kg | 42000 |
| cis-1,3-Dichloropropene | ND | 160000 | ug/kg | 24000 |
| trans-1,3-Dichloropropene | ND | 160000 | ug/kg | 19000 |
| Ethylbenzene | 29000 J | 160000 | ug/kg | 20000 |
| Methylene chloride | ND | 160000 | ug/kg | 36000 |
| 1,1,2,2-Tetrachloroethane | ND | 160000 | ug/kg | 31000 |
| Tetrachloroethene | ND | 160000 | ug/kg | 27000 |
| Toluene | 770000 | 160000 | ug/kg | 28000 |
| 1,1,1-Trichloroethane | ND | 160000 | ug/kg | 34000 |
| 1,1,2-Trichloroethane | ND | 160000 | ug/kg | 38000 |
| Trichloroethene | ND | 160000 | ug/kg | 26000 |
| Trichlorofluoromethane | ND | 160000 | ug/kg | 37000 |
| Vinyl chloride | ND | 160000 | ug/kg | 42000 |

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mw
8/12/09

2

Maryland Environmental Service

Client Sample ID: BP-SO-B06-12

GC/MS Volatiles

Lot-Sample #....: C9F120311-002 Work Order #....: LEVER1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 103 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 106 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

luw
8/12/09

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-003 | Work Order #....: LEVE51AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 20:13 | |
| Dilution Factor: 98.23 | Initial Wgt/Vol: 5.09 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 37 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------|-----------------|-------|--------|
| Acrolein | ND R | 780000 | ug/kg | 120000 |
| Acrylonitrile | ND UJ | 780000 | ug/kg | 63000 |
| Benzene | 760000 | 39000 | ug/kg | 7700 |
| Bromodichloromethane | ND | 39000 | ug/kg | 7200 |
| Bromoform | ND | 39000 | ug/kg | 8300 |
| Bromomethane | ND | 39000 | ug/kg | 12000 |
| 2-Butanone (MEK) | ND | 39000 | ug/kg | 8400 |
| Carbon tetrachloride | ND | 39000 | ug/kg | 8400 |
| Chloroethane | ND | 39000 | ug/kg | 5800 |
| 2-Chloroethyl vinyl ether | ND | 78000 | ug/kg | 8600 |
| Chloroform | ND | 39000 | ug/kg | 7800 |
| Chloromethane | ND | 39000 | ug/kg | 7200 |
| Dibromochloromethane | ND | 39000 | ug/kg | 5000 |
| 1,2-Dichlorobenzene | ND | 39000 | ug/kg | 5300 |
| 1,3-Dichlorobenzene | ND | 39000 | ug/kg | 3900 |
| 1,4-Dichlorobenzene | ND | 39000 | ug/kg | 4100 |
| trans-1,2-Dichloroethene | ND | 39000 | ug/kg | 5800 |
| Dichlorodifluoromethane | ND | 39000 | ug/kg | 4900 |
| 1,1-Dichloroethane | ND | 39000 | ug/kg | 7900 |
| 1,2-Dichloroethane | ND | 39000 | ug/kg | 7500 |
| 1,1-Dichloroethene | ND | 39000 | ug/kg | 8300 |
| 1,2-Dichloropropane | ND | 39000 | ug/kg | 9900 |
| cis-1,3-Dichloropropene | ND | 39000 | ug/kg | 5700 |
| trans-1,3-Dichloropropene | ND | 39000 | ug/kg | 4500 |
| Ethylbenzene | 12000 J | 39000 | ug/kg | 4800 |
| Methylene chloride | ND | 39000 | ug/kg | 8500 |
| 1,1,2,2-Tetrachloroethane | ND | 39000 | ug/kg | 7300 |
| Tetrachloroethene | ND | 39000 | ug/kg | 6400 |
| Toluene | 310000 | 39000 | ug/kg | 6600 |
| 1,1,1-Trichloroethane | ND | 39000 | ug/kg | 8000 |
| 1,1,2-Trichloroethane | ND | 39000 | ug/kg | 9000 |
| Trichloroethene | ND | 39000 | ug/kg | 6200 |
| Trichlorofluoromethane | ND | 39000 | ug/kg | 8700 |
| Vinyl chloride | ND | 39000 | ug/kg | 10000 |

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hw
8/12/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B06-16

GC/MS Volatiles

Lot-Sample #...: C9F120311-003 Work Order #...: LEVE51AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 106 | (72 - 127) |
| 4-Bromofluorobenzene | 108 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

lws
8/12/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Volatiles

Lot-Sample #....: C9F120311-004 Work Order #....: LEVF31AU Matrix.....: SOLID
 Date Sampled....: 06/11/09 Date Received...: 06/12/09 MS Run #.....:
 Prep Date.....: 06/21/09 Analysis Date...: 06/21/09
 Prep Batch #....: 9173046 Analysis Time...: 20:37
 Dilution Factor: 95.23 Initial Wgt/Vol: 5.25 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 16 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-------|
| Acrolein | ND R | 570000 | ug/kg | 90000 |
| Acrylonitrile | ND UJ | 570000 | ug/kg | 46000 |
| Benzene | 680000 | 28000 | ug/kg | 5600 |
| Bromodichloromethane | ND | 28000 | ug/kg | 5300 |
| Bromoform | ND | 28000 | ug/kg | 6100 |
| Bromomethane | ND | 28000 | ug/kg | 8900 |
| 2-Butanone (MEK) | ND | 28000 | ug/kg | 6100 |
| Carbon tetrachloride | ND | 28000 | ug/kg | 6100 |
| Chloroethane | ND | 28000 | ug/kg | 4200 |
| 2-Chloroethyl vinyl ether | ND | 57000 | ug/kg | 6300 |
| Chloroform | ND | 28000 | ug/kg | 5700 |
| Chloromethane | ND | 28000 | ug/kg | 5300 |
| Dibromochloromethane | ND | 28000 | ug/kg | 3700 |
| 1,2-Dichlorobenzene | ND | 28000 | ug/kg | 3900 |
| 1,3-Dichlorobenzene | ND | 28000 | ug/kg | 2900 |
| 1,4-Dichlorobenzene | ND | 28000 | ug/kg | 3000 |
| trans-1,2-Dichloroethene | ND | 28000 | ug/kg | 4300 |
| Dichlorodifluoromethane | ND | 28000 | ug/kg | 3600 |
| 1,1-Dichloroethane | ND | 28000 | ug/kg | 5700 |
| 1,2-Dichloroethane | ND | 28000 | ug/kg | 5400 |
| 1,1-Dichloroethene | ND | 28000 | ug/kg | 6000 |
| 1,2-Dichloropropane | ND | 28000 | ug/kg | 7200 |
| cis-1,3-Dichloropropene | ND | 28000 | ug/kg | 4100 |
| trans-1,3-Dichloropropene | ND | 28000 | ug/kg | 3300 |
| Ethylbenzene | 8400 J | 28000 | ug/kg | 3500 |
| Methylene chloride | ND | 28000 | ug/kg | 6200 |
| 1,1,2,2-Tetrachloroethane | ND | 28000 | ug/kg | 5300 |
| Tetrachloroethene | ND | 28000 | ug/kg | 4700 |
| Toluene | 250000 | 28000 | ug/kg | 4800 |
| 1,1,1-Trichloroethane | ND | 28000 | ug/kg | 5800 |
| 1,1,2-Trichloroethane | ND | 28000 | ug/kg | 6600 |
| Trichloroethene | ND | 28000 | ug/kg | 4500 |
| Trichlorofluoromethane | ND | 28000 | ug/kg | 6300 |
| Vinyl chloride | ND | 28000 | ug/kg | 7300 |

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 uw
 8/12/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B07-12

GC/MS Volatiles

Lot-Sample #...: C9F120311-004 Work Order #...: LEVF31AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 96 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/12/09

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Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F120311-005 | Work Order #....: LEVGC1AU | Matrix.....: SOLID |
| Date Sampled....: 06/11/09 | Date Received...: 06/12/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 21:00 | |
| Dilution Factor: 482.62 | Initial Wgt/Vol: 5.18 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 24 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------|-----------------|-------|--------|
| Acrolein | ND R | 3200000 | ug/kg | 500000 |
| Acrylonitrile | ND UJ | 3200000 | ug/kg | 260000 |
| Benzene | 1700000 | 160000 | ug/kg | 31000 |
| Bromodichloromethane | ND | 160000 | ug/kg | 30000 |
| Bromoform | ND | 160000 | ug/kg | 34000 |
| Bromomethane | ND | 160000 | ug/kg | 50000 |
| 2-Butanone (MEK) | ND | 160000 | ug/kg | 34000 |
| Carbon tetrachloride | ND | 160000 | ug/kg | 34000 |
| Chloroethane | ND | 160000 | ug/kg | 24000 |
| 2-Chloroethyl vinyl ether | ND | 320000 | ug/kg | 35000 |
| Chloroform | ND | 160000 | ug/kg | 32000 |
| Chloromethane | ND | 160000 | ug/kg | 29000 |
| Dibromochloromethane | ND | 160000 | ug/kg | 21000 |
| 1,2-Dichlorobenzene | ND | 160000 | ug/kg | 22000 |
| 1,3-Dichlorobenzene | ND | 160000 | ug/kg | 16000 |
| 1,4-Dichlorobenzene | ND | 160000 | ug/kg | 17000 |
| trans-1,2-Dichloroethene | ND | 160000 | ug/kg | 24000 |
| Dichlorodifluoromethane | ND | 160000 | ug/kg | 20000 |
| 1,1-Dichloroethane | ND | 160000 | ug/kg | 32000 |
| 1,2-Dichloroethane | ND | 160000 | ug/kg | 30000 |
| 1,1-Dichloroethene | ND | 160000 | ug/kg | 34000 |
| 1,2-Dichloropropane | ND | 160000 | ug/kg | 40000 |
| cis-1,3-Dichloropropene | ND | 160000 | ug/kg | 23000 |
| trans-1,3-Dichloropropene | ND | 160000 | ug/kg | 18000 |
| Ethylbenzene | 210000 J | 160000 | ug/kg | 20000 |
| Methylene chloride | ND | 160000 | ug/kg | 35000 |
| 1,1,2,2-Tetrachloroethane | ND | 160000 | ug/kg | 30000 |
| Tetrachloroethene | ND | 160000 | ug/kg | 26000 |
| Toluene | 480000 | 160000 | ug/kg | 27000 |
| 1,1,1-Trichloroethane | ND | 160000 | ug/kg | 33000 |
| 1,1,2-Trichloroethane | ND | 160000 | ug/kg | 37000 |
| Trichloroethene | ND | 160000 | ug/kg | 25000 |
| Trichlorofluoromethane | ND | 160000 | ug/kg | 36000 |
| Vinyl chloride | ND | 160000 | ug/kg | 41000 |

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hw
8/12/09

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Maryland Environmental Service

Client Sample ID: BP-SO-DUP-2

GC/MS Volatiles

Lot-Sample #....: C9F120311-005 Work Order #....: LEVGC1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.hw
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F120311-006 Work Order #....: LEVGG1AA Matrix.....: WATER
 Date Sampled....: 06/11/09 Date Received...: 06/12/09 MS Run #.....: 9169266
 Prep Date.....: 06/18/09 Analysis Date...: 06/18/09
 Prep Batch #....: 9169470 Analysis Time...: 07:35
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|-------|------|
| Acrolein | ND <i>12</i> | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

lw
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F120311-006 Work Order #...: LEVGG1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 88 | (62 - 123) |
| Toluene-d8 | 98 | (80 - 120) |
| 4-Bromofluorobenzene | 87 | (75 - 120) |
| Dibromofluoromethane | 93 | (80 - 120) |

lw
8/12/09

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9F160238

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

June 30, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pittsburg.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F160238

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 16, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, the sediment samples were analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

The matrix spikes were diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F160238

Metals:

Several samples were analyzed at dilution for mercury.

Several samples were diluted for 6020 metals prior to analysis due to the sample matrix.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, chromium, zinc, and mercury. The matrix spike recovered outside the control limit for copper.

The RPD was outside the control limit for copper.

For the matrix spike and matrix spike duplicate, lead, and selenium recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

Samples BP-SO-B08-10 and BP-SO-B08-16 were analyzed at a dilution for total cyanide.

For the matrix spike and matrix spike duplicate, total cyanide recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

METHODS SUMMARY

C9F160238

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|--|----------------------|-----------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F160238

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LE2AJ | 001 | BP-SO-B08-6 | 06/15/09 | 09:00 |
| LE2A1 | 002 | BP-SO-B08-10 | 06/15/09 | 09:50 |
| LE2A6 | 003 | BP-SO-B08-16 | 06/15/09 | 10:30 |
| LE2CM | 004 | BP-SO-B09-8 | 06/15/09 | 12:30 |
| LE2CN | 005 | BP-SO-B09-14 | 06/15/09 | 13:30 |
| LE2CP | 006 | BP-SO-B09-18 | 06/15/09 | 14:00 |
| LE2CQ | 007 | TRIP BLANK | 06/15/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

[illegible]

Cooler Receipt Form

TestAmerica Pittsburgh

Client: E.A. Engineering Project: 6/16/09 Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 6/16/09

Coolers Opened and Unpacked on: 6/16/09 By: PLF

(Signature)

TestAmerica Pittsburgh Lot Number: C9D160238

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>2</u> Location <u>1 front, 1 back</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Wrap</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

* Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____
Sulfuric Acid _____

Hydrochloric Acid _____
Sodium Hydroxide _____

FedEx *US Airbill*
Express

8694 4003 0561

0200

Form
ID No.

FedEx Retrieval Copy

1 From Date 6/15/04 Sender's FedEx Account Number 0212-0722-5

Sender's Name Joseph Sawicki Phone 410 771-4950

Company EA Engineering

Address 15 Loveton Circle

City Sparks State MD ZIP 21152 Dept./Floor/Suite/Room

2 Your Internal Billing Reference 1453406.0001.0004B

3 To Recipient's Name Sample Receiving Phone 412 913-2428

Company Test America

Recipient's Address 301 Alpha Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address RIDC Park

To request a package be held at a specific FedEx location, print FedEx address here.

City Pittsburgh State PA ZIP 15238



8694 4003 0561

4a Express Package Service

- 1 ☐ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 5 ☒ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
- 6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- 3 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.
- * To most locations.

4b Express Freight Service

- 7 ☐ FedEx 1Day Freight* Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 8 ☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 83 ☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.
- * Call for Confirmation. ** To most locations.

5 Packaging

- 6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other
- * Declared value limit: \$500.

6 Special Handling

- 3 ☐ SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight.
- 1 ☐ HOLD Weekday at FedEx Location Not available for FedEx First Overnight.
- 31 ☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?

- ☒ No 4 ☐ Yes One box must be checked. As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
- 6 ☐ Dry Ice Dry Ice, 8, UN 1845
- Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

- 7 **Payment Bill to:** Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. ☐
- 1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 49

Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

- No Signature Required ☐ Package may be left without obtaining a signature for delivery.
- 10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
- 34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

Rev. Date 10/06-Part #158281-©1994-2006 FedEx-PRINTED IN U.S.A. SKY

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Volatiles

Lot-Sample #....: C9F160238-001
 Date Sampled....: 06/15/09
 Prep Date.....: 06/19/09
 Prep Batch #....: 9170344
 Dilution Factor: 19.46
 % Moisture.....: 24

Work Order #....: LE2AJ1AX
 Date Received...: 06/16/09
 Analysis Date...: 06/19/09
 Analysis Time...: 17:19
 Initial Wgt/Vol: 5.14 g
 Analyst ID.....: 034635
 Method.....: SW846 8260B

Matrix.....: SOLID
 MS Run #.....: 9170195

Final Wgt/Vol...: 5 mL
 Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|-------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 130000 | ug/kg | 20000 |
| Acrylonitrile | ND | 130000 | ug/kg | 10000 |
| Benzene | 130000 | 6400 | ug/kg | 1300 |
| Bromodichloromethane | ND | 6400 | ug/kg | 1200 |
| Bromoform | ND | 6400 | ug/kg | 1400 |
| Bromomethane | ND | 6400 | ug/kg | 2000 |
| 2-Butanone (MEK) | ND | 6400 | ug/kg | 1400 |
| Carbon tetrachloride | ND | 6400 | ug/kg | 1400 |
| Chloroethane | ND | 6400 | ug/kg | 950 |
| 2-Chloroethyl vinyl ether | ND | 13000 | ug/kg | 1400 |
| Chloroform | ND | 6400 | ug/kg | 1300 |
| Chloromethane | ND | 6400 | ug/kg | 1200 |
| Dibromochloromethane | ND | 6400 | ug/kg | 830 |
| 1,2-Dichlorobenzene | ND | 6400 | ug/kg | 870 |
| 1,3-Dichlorobenzene | ND | 6400 | ug/kg | 640 |
| 1,4-Dichlorobenzene | ND | 6400 | ug/kg | 670 |
| trans-1,2-Dichloroethene | ND | 6400 | ug/kg | 960 |
| Dichlorodifluoromethane | ND | 6400 | ug/kg | 810 |
| 1,1-Dichloroethane | ND | 6400 | ug/kg | 1300 |
| 1,2-Dichloroethane | ND | 6400 | ug/kg | 1200 |
| 1,1-Dichloroethene | ND | 6400 | ug/kg | 1400 |
| 1,2-Dichloropropane | ND | 6400 | ug/kg | 1600 |
| cis-1,3-Dichloropropene | ND | 6400 | ug/kg | 930 |
| trans-1,3-Dichloropropene | ND | 6400 | ug/kg | 740 |
| Ethylbenzene | 36000 | 6400 | ug/kg | 790 |
| Methylene chloride | ND | 6400 | ug/kg | 1400 |
| 1,1,2,2-Tetrachloroethane | ND | 6400 | ug/kg | 1200 |
| Tetrachloroethene | ND | 6400 | ug/kg | 1100 |
| Toluene | 54000 | 6400 | ug/kg | 1100 |
| 1,1,1-Trichloroethane | ND | 6400 | ug/kg | 1300 |
| 1,1,2-Trichloroethane | ND | 6400 | ug/kg | 1500 |
| Trichloroethene | ND | 6400 | ug/kg | 1000 |
| Trichlorofluoromethane | ND | 6400 | ug/kg | 1400 |
| Vinyl chloride | ND | 6400 | ug/kg | 1600 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Volatiles

Lot-Sample #....: C9F160238-001 Work Order #....: LE2AJ1AX Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 99 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 110 | (63 - 120) |
| Dibromofluoromethane | 91 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Volatiles

| | | |
|--|------------------------------------|--------------------------------|
| Lot-Sample #... : C9F160238-002 | Work Order #... : LE2A11AX | Matrix..... : SOLID |
| Date Sampled... : 06/15/09 | Date Received... : 06/16/09 | MS Run #..... : |
| Prep Date..... : 06/21/09 | Analysis Date... : 06/21/09 | |
| Prep Batch #... : 9173046 | Analysis Time... : 21:24 | |
| Dilution Factor : 4.97 | Initial Wgt/Vol : 5.03 g | Final Wgt/Vol... : 5 mL |
| % Moisture..... : 13 | Analyst ID..... : 034635 | Instrument ID... : HP4 |
| | Method..... : SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 29000 | ug/kg | 4500 |
| Acrylonitrile | ND | 29000 | ug/kg | 2300 |
| Benzene | 15000 | 1400 | ug/kg | 280 |
| Bromodichloromethane | ND | 1400 | ug/kg | 270 |
| Bromoform | ND | 1400 | ug/kg | 300 |
| Bromomethane | ND | 1400 | ug/kg | 450 |
| 2-Butanone (MEK) | ND | 1400 | ug/kg | 310 |
| Carbon tetrachloride | ND | 1400 | ug/kg | 310 |
| Chloroethane | ND | 1400 | ug/kg | 210 |
| 2-Chloroethyl vinyl ether | ND | 2900 | ug/kg | 320 |
| Chloroform | ND | 1400 | ug/kg | 290 |
| Chloromethane | ND | 1400 | ug/kg | 260 |
| Dibromochloromethane | ND | 1400 | ug/kg | 180 |
| 1,2-Dichlorobenzene | ND | 1400 | ug/kg | 190 |
| 1,3-Dichlorobenzene | ND | 1400 | ug/kg | 140 |
| 1,4-Dichlorobenzene | ND | 1400 | ug/kg | 150 |
| trans-1,2-Dichloroethene | ND | 1400 | ug/kg | 210 |
| Dichlorodifluoromethane | ND | 1400 | ug/kg | 180 |
| 1,1-Dichloroethane | ND | 1400 | ug/kg | 290 |
| 1,2-Dichloroethane | ND | 1400 | ug/kg | 270 |
| 1,1-Dichloroethene | ND | 1400 | ug/kg | 300 |
| 1,2-Dichloropropane | ND | 1400 | ug/kg | 360 |
| cis-1,3-Dichloropropene | ND | 1400 | ug/kg | 210 |
| trans-1,3-Dichloropropene | ND | 1400 | ug/kg | 170 |
| Ethylbenzene | 530 J | 1400 | ug/kg | 180 |
| Methylene chloride | ND | 1400 | ug/kg | 310 |
| 1,1,2,2-Tetrachloroethane | ND | 1400 | ug/kg | 270 |
| Tetrachloroethene | ND | 1400 | ug/kg | 240 |
| Toluene | 6700 | 1400 | ug/kg | 240 |
| 1,1,1-Trichloroethane | ND | 1400 | ug/kg | 290 |
| 1,1,2-Trichloroethane | ND | 1400 | ug/kg | 330 |
| Trichloroethene | ND | 1400 | ug/kg | 230 |
| Trichlorofluoromethane | ND | 1400 | ug/kg | 320 |
| Vinyl chloride | ND | 1400 | ug/kg | 370 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Volatiles

Lot-Sample #...: C9F160238-002 Work Order #...: LE2A11AX Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F160238-003 | Work Order #....: LE2A61AX | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: 9170195 |
| Prep Date.....: 06/19/09 | Analysis Date...: 06/19/09 | |
| Prep Batch #....: 9170344 | Analysis Time...: 09:10 | |
| Dilution Factor: 10 | Initial Wgt/Vol: 5 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 29 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|------------|
| Acrolein | ND | 70000 | ug/kg | 11000 |
| Acrylonitrile | ND | 70000 | ug/kg | 5700 |
| Benzene | 50000 | 3500 | ug/kg | 700 |
| Bromodichloromethane | ND | 3500 | ug/kg | 650 |
| Bromoform | ND | 3500 | ug/kg | 750 |
| Bromomethane | ND | 3500 | ug/kg | 1100 |
| 2-Butanone (MEK) | ND | 3500 | ug/kg | 760 |
| Carbon tetrachloride | ND | 3500 | ug/kg | 760 |
| Chloroethane | ND | 3500 | ug/kg | 530 |
| 2-Chloroethyl vinyl ether | ND | 7000 | ug/kg | 780 |
| Chloroform | ND | 3500 | ug/kg | 710 |
| Chloromethane | ND | 3500 | ug/kg | 650 |
| Dibromochloromethane | ND | 3500 | ug/kg | 460 |
| 1,2-Dichlorobenzene | ND | 3500 | ug/kg | 480 |
| 1,3-Dichlorobenzene | ND | 3500 | ug/kg | 360 |
| 1,4-Dichlorobenzene | ND | 3500 | ug/kg | 370 |
| trans-1,2-Dichloroethene | ND | 3500 | ug/kg | 530 |
| Dichlorodifluoromethane | ND | 3500 | ug/kg | 450 |
| 1,1-Dichloroethane | ND | 3500 | ug/kg | 710 |
| 1,2-Dichloroethane | ND | 3500 | ug/kg | 670 |
| 1,1-Dichloroethene | ND | 3500 | ug/kg | 750 |
| 1,2-Dichloropropane | ND | 3500 | ug/kg | 900 |
| cis-1,3-Dichloropropene | ND | 3500 | ug/kg | 510 |
| trans-1,3-Dichloropropene | ND | 3500 | ug/kg | 410 |
| Ethylbenzene | 5600 | 3500 | ug/kg | 440 |
| Methylene chloride | ND | 3500 | ug/kg | 770 |
| 1,1,2,2-Tetrachloroethane | ND | 3500 | ug/kg | 660 |
| Tetrachloroethene | ND | 3500 | ug/kg | 580 |
| Toluene | 53000 | 3500 | ug/kg | 590 |
| 1,1,1-Trichloroethane | ND | 3500 | ug/kg | 720 |
| 1,1,2-Trichloroethane | ND | 3500 | ug/kg | 820 |
| Trichloroethene | ND | 3500 | ug/kg | 560 |
| Trichlorofluoromethane | ND | 3500 | ug/kg | 790 |
| Vinyl chloride | ND | 3500 | ug/kg | 910 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Volatiles

Lot-Sample #...: C9F160238-003 Work Order #...: LE2A61AX Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 103 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Volatiles

| | | |
|--|-----------------------------------|-------------------------------|
| Lot-Sample #....: C9F160238-004 | Work Order #....: LE2CM1AU | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: 9170195 |
| Prep Date.....: 06/19/09 | Analysis Date...: 06/19/09 | |
| Prep Batch #....: 9170344 | Analysis Time...: 17:43 | |
| Dilution Factor: 9.56 | Initial Wgt/Vol: 5.23 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 19 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|------------|
| Acrolein | ND | 59000 | ug/kg | 9300 |
| Acrylonitrile | ND | 59000 | ug/kg | 4800 |
| Benzene | 56000 | 2900 | ug/kg | 580 |
| Bromodichloromethane | ND | 2900 | ug/kg | 550 |
| Bromoform | ND | 2900 | ug/kg | 630 |
| Bromomethane | ND | 2900 | ug/kg | 930 |
| 2-Butanone (MEK) | ND | 2900 | ug/kg | 640 |
| Carbon tetrachloride | ND | 2900 | ug/kg | 640 |
| Chloroethane | ND | 2900 | ug/kg | 440 |
| 2-Chloroethyl vinyl ether | ND | 5900 | ug/kg | 650 |
| Chloroform | ND | 2900 | ug/kg | 590 |
| Chloromethane | ND | 2900 | ug/kg | 550 |
| Dibromochloromethane | ND | 2900 | ug/kg | 380 |
| 1,2-Dichlorobenzene | ND | 2900 | ug/kg | 400 |
| 1,3-Dichlorobenzene | ND | 2900 | ug/kg | 300 |
| 1,4-Dichlorobenzene | ND | 2900 | ug/kg | 310 |
| trans-1,2-Dichloroethene | ND | 2900 | ug/kg | 440 |
| Dichlorodifluoromethane | ND | 2900 | ug/kg | 370 |
| 1,1-Dichloroethane | ND | 2900 | ug/kg | 600 |
| 1,2-Dichloroethane | ND | 2900 | ug/kg | 560 |
| 1,1-Dichloroethene | ND | 2900 | ug/kg | 630 |
| 1,2-Dichloropropane | ND | 2900 | ug/kg | 750 |
| cis-1,3-Dichloropropene | ND | 2900 | ug/kg | 430 |
| trans-1,3-Dichloropropene | ND | 2900 | ug/kg | 340 |
| Ethylbenzene | 4100 | 2900 | ug/kg | 370 |
| Methylene chloride | ND | 2900 | ug/kg | 640 |
| 1,1,2,2-Tetrachloroethane | ND | 2900 | ug/kg | 550 |
| Tetrachloroethene | ND | 2900 | ug/kg | 490 |
| Toluene | 33000 | 2900 | ug/kg | 500 |
| 1,1,1-Trichloroethane | ND | 2900 | ug/kg | 610 |
| 1,1,2-Trichloroethane | ND | 2900 | ug/kg | 680 |
| Trichloroethene | ND | 2900 | ug/kg | 470 |
| Trichlorofluoromethane | ND | 2900 | ug/kg | 660 |
| Vinyl chloride | ND | 2900 | ug/kg | 760 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Volatiles

Lot-Sample #....: C9F160238-004 Work Order #....: LE2CM1AU Matrix.....: SOLID

| <u>SURROGATE</u> | PERCENT | RECOVERY |
|-----------------------|-----------------|---------------|
| | <u>RECOVERY</u> | <u>LIMITS</u> |
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 109 | (63 - 120) |
| Dibromofluoromethane | 92 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F160238-005 | Work Order #...: LE2CN1AU | Matrix.....: SOLID |
| Date Sampled...: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #...: 9173046 | Analysis Time...: 18:38 | |
| Dilution Factor: 957.85 | Initial Wgt/Vol: 5.22 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 18 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|---------------|
| Acrolein | ND | 5900000 | ug/kg | 930000 |
| Acrylonitrile | ND | 5900000 | ug/kg | 480000 |
| Benzene | 6100000 | 290000 | ug/kg | 580000 |
| Bromodichloromethane | ND | 290000 | ug/kg | 55000 |
| Bromoform | ND | 290000 | ug/kg | 63000 |
| Bromomethane | ND | 290000 | ug/kg | 92000 |
| 2-Butanone (MEK) | ND | 290000 | ug/kg | 64000 |
| Carbon tetrachloride | ND | 290000 | ug/kg | 64000 |
| Chloroethane | ND | 290000 | ug/kg | 44000 |
| 2-Chloroethyl vinyl ether | ND | 590000 | ug/kg | 65000 |
| Chloroform | ND | 290000 | ug/kg | 59000 |
| Chloromethane | ND | 290000 | ug/kg | 54000 |
| Dibromochloromethane | ND | 290000 | ug/kg | 38000 |
| 1,2-Dichlorobenzene | ND | 290000 | ug/kg | 40000 |
| 1,3-Dichlorobenzene | ND | 290000 | ug/kg | 30000 |
| 1,4-Dichlorobenzene | ND | 290000 | ug/kg | 31000 |
| trans-1,2-Dichloroethene | ND | 290000 | ug/kg | 44000 |
| Dichlorodifluoromethane | ND | 290000 | ug/kg | 37000 |
| 1,1-Dichloroethane | ND | 290000 | ug/kg | 59000 |
| 1,2-Dichloroethane | ND | 290000 | ug/kg | 56000 |
| 1,1-Dichloroethene | ND | 290000 | ug/kg | 63000 |
| 1,2-Dichloropropane | ND | 290000 | ug/kg | 75000 |
| cis-1,3-Dichloropropene | ND | 290000 | ug/kg | 43000 |
| trans-1,3-Dichloropropene | ND | 290000 | ug/kg | 34000 |
| Ethylbenzene | 47000 J | 290000 | ug/kg | 36000 |
| Methylene chloride | ND | 290000 | ug/kg | 64000 |
| 1,1,2,2-Tetrachloroethane | ND | 290000 | ug/kg | 55000 |
| Tetrachloroethene | ND | 290000 | ug/kg | 48000 |
| Toluene | 2900000 | 290000 | ug/kg | 50000 |
| 1,1,1-Trichloroethane | ND | 290000 | ug/kg | 60000 |
| 1,1,2-Trichloroethane | ND | 290000 | ug/kg | 68000 |
| Trichloroethene | ND | 290000 | ug/kg | 47000 |
| Trichlorofluoromethane | ND | 290000 | ug/kg | 66000 |
| Vinyl chloride | ND | 290000 | ug/kg | 76000 |

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Volatiles

Lot-Sample #....: C9F160238-005 Work Order #....: LE2CN1AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F160238-006 | Work Order #...: LE2CP1AU | Matrix.....: SOLID |
| Date Sampled...: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #...: 9173046 | Analysis Time...: 19:01 | |
| Dilution Factor: 1937.98 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 33 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|--------------|---------------|
| Acrolein | ND | 15000000 | ug/kg | 2300000 |
| Acrylonitrile | ND | 15000000 | ug/kg | 1200000 |
| Benzene | 5600000 | 730000 | ug/kg | 140000 |
| Bromodichloromethane | ND | 730000 | ug/kg | 140000 |
| Bromoform | ND | 730000 | ug/kg | 160000 |
| Bromomethane | ND | 730000 | ug/kg | 230000 |
| 2-Butanone (MEK) | ND | 730000 | ug/kg | 160000 |
| Carbon tetrachloride | ND | 730000 | ug/kg | 160000 |
| Chloroethane | ND | 730000 | ug/kg | 110000 |
| 2-Chloroethyl vinyl ether | ND | 1500000 | ug/kg | 160000 |
| Chloroform | ND | 730000 | ug/kg | 150000 |
| Chloromethane | ND | 730000 | ug/kg | 140000 |
| Dibromochloromethane | ND | 730000 | ug/kg | 94000 |
| 1,2-Dichlorobenzene | ND | 730000 | ug/kg | 99000 |
| 1,3-Dichlorobenzene | ND | 730000 | ug/kg | 74000 |
| 1,4-Dichlorobenzene | ND | 730000 | ug/kg | 77000 |
| trans-1,2-Dichloroethene | ND | 730000 | ug/kg | 110000 |
| Dichlorodifluoromethane | ND | 730000 | ug/kg | 92000 |
| 1,1-Dichloroethane | ND | 730000 | ug/kg | 150000 |
| 1,2-Dichloroethane | ND | 730000 | ug/kg | 140000 |
| 1,1-Dichloroethene | ND | 730000 | ug/kg | 160000 |
| 1,2-Dichloropropane | ND | 730000 | ug/kg | 190000 |
| cis-1,3-Dichloropropene | ND | 730000 | ug/kg | 110000 |
| trans-1,3-Dichloropropene | ND | 730000 | ug/kg | 85000 |
| Ethylbenzene | 350000 J | 730000 | ug/kg | 90000 |
| Methylene chloride | ND | 730000 | ug/kg | 160000 |
| 1,1,2,2-Tetrachloroethane | ND | 730000 | ug/kg | 140000 |
| Tetrachloroethene | ND | 730000 | ug/kg | 120000 |
| Toluene | 3800000 | 730000 | ug/kg | 120000 |
| 1,1,1-Trichloroethane | ND | 730000 | ug/kg | 150000 |
| 1,1,2-Trichloroethane | ND | 730000 | ug/kg | 170000 |
| Trichloroethene | ND | 730000 | ug/kg | 120000 |
| Trichlorofluoromethane | ND | 730000 | ug/kg | 160000 |
| Vinyl chloride | ND | 730000 | ug/kg | 190000 |

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Volatiles

Lot-Sample #...: C9F160238-006 Work Order #...: LE2CP1AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F160238-007 | Work Order #....: LE2CQ1AA | Matrix.....: WATER |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: 9170149 |
| Prep Date.....: 06/19/09 | Analysis Date...: 06/19/09 | |
| Prep Batch #....: 9170275 | Analysis Time...: 09:59 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F160238-007 Work Order #....: LE2CQ1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 86 | (62 - 123) |
| Toluene-d8 | 98 | (80 - 120) |
| 4-Bromofluorobenzene | 86 | (75 - 120) |
| Dibromofluoromethane | 90 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F160238

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B08-6 | 99 | 104 | 110 | 91 | 00 |
| 02 | BP-SO-B08-10 | 101 | 108 | 107 | 95 | 00 |
| 03 | BP-SO-B08-16 | 95 | 105 | 103 | 84 | 00 |
| 04 | BP-SO-B09-8 | 100 | 105 | 109 | 92 | 00 |
| 05 | BP-SO-B09-14 | 102 | 108 | 107 | 95 | 00 |
| 06 | BP-SO-B09-18 | 101 | 108 | 107 | 94 | 00 |
| 07 | METHOD BLK. LE9711AA | 93 | 104 | 99 | 84 | 00 |
| 08 | METHOD BLK. LFD191AA | 98 | 107 | 100 | 88 | 00 |
| 09 | LCS LE9711AC | 91 | 103 | 99 | 86 | 00 |
| 10 | LCS LFD191AC | 101 | 114 | 106 | 94 | 00 |
| 11 | BP-SO-B08-16 D | 99 | 112 | 110 | 94 | 00 |
| 12 | LCSD LFD191AD | 95 | 111 | 107 | 91 | 00 |
| 13 | BP-SO-B08-16 S | 94 | 107 | 103 | 88 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F160238

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 89 | 98 | 94 | 101 | 00 |
| 02 | TRIP BLANK | 86 | 98 | 86 | 90 | 00 |
| 03 | METHOD BLK. LE9H21AA | 95 | 100 | 98 | 107 | 00 |
| 04 | LCS LE9H21AC | 88 | 106 | 91 | 96 | 00 |
| 05 | LAB MS/MSD D | 89 | 103 | 90 | 93 | 00 |
| 06 | LAB MS/MSD S | 87 | 105 | 89 | 96 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F190000

WO #: LE9H21AC

BATCH: 9170275

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 33.4 | 84 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.3 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.8 | 95 | 80 - 120 | |
| Toluene | 40.0 | 45.4 | 114 | 80 - 124 | |
| Chlorobenzene | 40.0 | 38.6 | 97 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F190000

WO #: LE9711AC

BATCH: 9170344

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Chlorobenzene | 2000 | 1920 | 96 | 79 - 120 | |
| 1,1-Dichloroethene | 2000 | 1910 | 95 | 59 - 129 | |
| Trichloroethene | 2000 | 1720 | 86 | 76 - 119 | |
| Benzene | 2000 | 2030 | 102 | 77 - 120 | |
| Toluene | 2000 | 2190 | 109 | 78 - 124 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F220000

WO #: LFD191AC

BATCH: 9173046

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1960 | 98 | 59- 129 | |
| Trichloroethene | 2000 | 1800 | 90 | 76- 119 | |
| Benzene | 2000 | 2050 | 102 | 77- 120 | |
| Toluene | 2000 | 2240 | 112 | 78- 124 | |
| Chlorobenzene | 2000 | 2050 | 102 | 79- 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F220000

WO #: LFD191AD

BATCH: 9173046

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1940 | 97 | 59 - 129 | |
| Trichloroethene | 2000 | 1770 | 88 | 76 - 119 | |
| Benzene | 2000 | 2010 | 100 | 77 - 120 | |
| Toluene | 2000 | 2220 | 111 | 78 - 124 | |
| Chlorobenzene | 2000 | 2030 | 102 | 79 - 120 | |

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B08-16

Level: (low/med) LOW

Lot #: C9F160238

WO #: LE2A61D2

BATCH: 9170344

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 28100 | ND | 28500 | 101 | 59 - 129 | |
| Trichloroethene | 28100 | ND | 25700 | 91 | 76 - 119 | |
| Benzene | 28100 | 50000 | 79400 | 104 | 77 - 120 | |
| Toluene | 28100 | 53000 | 85000 | 113 | 78 - 124 | |
| Chlorobenzene | 28100 | ND | 28700 | 102 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B08-16

Level: (low/med) LOW

Lot #: C9F160238

WO #: LE2A61D3

BATCH: 9170344

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|------|
| | | | | | RPD | REC | |
| 1,1-Dichloroethene | 28100 | 28500 | 101 | 0.040 | 25 | 59 - 129 | |
| Trichloroethene | 28100 | 26100 | 93 | 1.4 | 21 | 76 - 119 | |
| Benzene | 28100 | 78000 | 98 | 1.8 | 20 | 77 - 120 | |
| Toluene | 28100 | 80900 | 98 | 4.9 | 21 | 78 - 124 | |
| Chlorobenzene | 28100 | 29400 | 105 | 2.4 | 20 | 79 - 120 | |

NOTES(S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Maryland Environmental Service

Lab Code: TALPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F110250 WO #: LEQCW1CG

BATCH: 9170275

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 32.7 | 82 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 38.8 | 97 | 80 - 120 | |
| Benzene | 40.0 | ND | 37.7 | 94 | 80 - 120 | |
| Toluene | 40.0 | ND | 51.1 | 128* | 80 - 124 | a |
| Chlorobenzene | 40.0 | ND | 38.1 | 95 | 83 - 120 | |

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 5 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F110250

WO #: LEQCW1CH

BATCH: 9170275

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD | | QC LIMITS | | | QUAL |
|--------------------|---------------------------|----------------------------|----------|----------|-----------|----------|-------|-------|
| | | | % REC | % RPD | RPD | REC | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 31.2 | 78 | 4.8 | 20 | 69 - 127 | | |
| Trichloroethene | 40.0 | 38.3 | 96 | 1.2 | 20 | 80 - 120 | | |
| Benzene | 40.0 | 37.4 | 94 | 0.82 | 20 | 80 - 120 | | |
| Toluene | 40.0 | 44.4 | 111 | 14 | 20 | 80 - 124 | | |
| Chlorobenzene | 40.0 | 38.2 | 95 | 0.13 | 20 | 83 - 120 | | |

NOTES(S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LE9H21AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7061901.D

Lot Number: C9F160238

Date Analyzed: 06/19/09

Time Analyzed: 09:35

Matrix: WATER

Date Extracted:06/19/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-----------------|------------------------|----------------|------------------|------------------|
| ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB QC | LEQCW1AA | 7061903.D | 06/19/09 | 10:33 |
| 02 LAB MS/MSD | LEQCW1CG S | 7061914.D | 06/19/09 | 15:18 |
| 03 LAB MS/MSD | LEQCW1CH D | 7061915.D | 06/19/09 | 15:46 |
| 04 TRIP BLANK | LE2CQ1AA | 7061902.D | 06/19/09 | 09:59 |
| 05 CHECK SAMPLE | LE9H21AC C | 7061916.D | 06/19/09 | 16:11 |
| 06 | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238
MB Lot-Sample #: C9F190000-275

Work Order #...: LE9H21AA

Matrix.....: WATER

Analysis Date...: 06/19/09
Dilution Factor: 1

Prep Date.....: 06/19/09
Prep Batch #...: 9170275
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 09:35
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| | | REPORTING | | |
|---------------------------|-----------------|---------------|-------|-------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |
| | | | | |
| | PERCENT | RECOVERY | | |
| <u>SURROGATE</u> | <u>RECOVERY</u> | <u>LIMITS</u> | | |
| 1,2-Dichloroethane-d4 | 95 | (62 - 123) | | |
| Toluene-d8 | 100 | (80 - 120) | | |
| 4-Bromofluorobenzene | 98 | (75 - 120) | | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238

Work Order #...: LE9H21AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 107 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LE9711AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4061902.D

Lot Number: C9F160238

Date Analyzed: 06/19/09

Time Analyzed: 08:48

Matrix: SOLID

Date Extracted: 06/19/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B08-6 | LE2AJ1AX | 4061923.D | 06/19/09 | 17:19 |
| 02 | BP-SO-B08-16 | LE2A61AX | 4061903.D | 06/19/09 | 09:10 |
| 03 | BP-SO-B08-16 | LE2A61D2 S | 4061905.D | 06/19/09 | 10:05 |
| 04 | BP-SO-B08-16 | LE2A61D3 D | 4061906.D | 06/19/09 | 10:33 |
| 05 | BP-SO-B09-8 | LE2CM1AU | 4061924.D | 06/19/09 | 17:43 |
| 06 | CHECK SAMPLE | LE9711AC C | 4061904.D | 06/19/09 | 09:42 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238
MB Lot-Sample #: C9F190000-344

Work Order #...: LE9711AA

Matrix.....: SOLID

Analysis Date...: 06/19/09
Dilution Factor: 1

Prep Date.....: 06/19/09
Prep Batch #...: 9170344
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 08:48
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | METHOD |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 93 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238

Work Order #...: LE9711AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 84 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

LFD191AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4062101.D

Lot Number: C9F160238

Date Analyzed: 06/21/09

Time Analyzed: 13:10

Matrix: SOLID

Date Extracted: 06/21/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B08-10 | LE2A11AX | 4062119.D | 06/21/09 | 21:24 |
| 02 | BP-SO-B09-14 | LE2CN1AU | 4062112.D | 06/21/09 | 18:38 |
| 03 | BP-SO-B09-18 | LE2CP1AU | 4062113.D | 06/21/09 | 19:01 |
| 04 | CHECK SAMPLE | LFD191AC C | 4062103.D | 06/21/09 | 14:16 |
| 05 | DUPLICATE CHECK | LFD191AD L | 4062104.D | 06/21/09 | 14:44 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238
MB Lot-Sample #: C9F220000-046

Work Order #...: LFD191AA

Matrix.....: SOLID

Analysis Date...: 06/21/09
Dilution Factor: 1

Prep Date.....: 06/21/09
Prep Batch #...: 9173046
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 13:10
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|-------|--------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 5000 | ug/kg | SW846 | 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 | 8260B |
| Benzene | ND | 250 | ug/kg | SW846 | 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 | 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 | 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 | 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 | 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 | 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 | 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 | 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Toluene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 | 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 98 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F160238

Work Order #...: LFD191AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------|--------------|---------------|
| Dibromofluoromethane | 88 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F160238
 Lab File ID (Standard): CC70619 Date Analyzed: 06/19/09
 Instrument ID: HP7 Time Analyzed: 0748
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-----------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 239311 | 10.58 | 427667 | 12.91 | 1114730 | 7.50 |
| UPPER LIMIT | 478622 | 10.78 | 855334 | 13.11 | 2229460 | 7.70 |
| LOWER LIMIT | 119656 | 10.38 | 213834 | 12.71 | 557365 | 7.30 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 332816 | 10.58 | 640567 | 12.91 | 1496771 | 7.51 |
| 02 TRIP BLANK | 410746 | 10.59 | 625367 | 12.90 | 1662877 | 7.51 |
| 03 INTRA-LAB CH | 267367 | 10.59 | 461743 | 12.91 | 1218985 | 7.51 |
| 04 | | | | | | |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F160238

Lab File ID (Standard): CC40619

Date Analyzed: 06/19/09

Instrument ID: HP4

Time Analyzed: 0705

GC Column: DB 624

ID: 0.18 (mm)

Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 353471 | 10.76 | 542884 | 13.09 | 1717048 | 7.69 |
| UPPER LIMIT | 706942 | 10.96 | 1085768 | 13.29 | 3434096 | 7.89 |
| LOWER LIMIT | 176736 | 10.56 | 271442 | 12.89 | 858524 | 7.49 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 515704 | 10.76 | 828513 | 13.09 | 2504204 | 7.68 |
| 02 BP-SO-B08-16 | 369030 | 10.76 | 607410 | 13.09 | 1759868 | 7.68 |
| 03 INTRA-LAB CH | 370068 | 10.76 | 587941 | 13.09 | 1764915 | 7.68 |
| 04 BP-SO-B08-16 | 348152 | 10.76 | 569463 | 13.09 | 1686805 | 7.68 |
| 05 BP-SO-B08-16 | 353382 | 10.76 | 579391 | 13.09 | 1690670 | 7.68 |
| 06 BP-SO-B08-6 | 326457 | 10.76 | 546053 | 13.09 | 1416181 | 7.68 |
| 07 BP-SO-B09-8 | 318899 | 10.76 | 519799 | 13.09 | 1385719 | 7.69 |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
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| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DCB) = 1,4-Dichlorobenzene-d4

IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.20 minutes of internal standard RT

RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F160238
 Lab File ID (Standard): CC40621 Date Analyzed: 06/21/09
 Instrument ID: HP4 Time Analyzed: 1202
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 321195 | 10.76 | 533323 | 13.09 | 1553531 | 7.68 |
| UPPER LIMIT | 642390 | 10.96 | 1066646 | 13.29 | 3107062 | 7.88 |
| LOWER LIMIT | 160598 | 10.56 | 266662 | 12.89 | 776766 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 393709 | 10.76 | 646425 | 13.09 | 1923018 | 7.68 |
| 02 INTRA-LAB CH | 326230 | 10.76 | 521213 | 13.09 | 1570166 | 7.68 |
| 03 INTRA-LAB CH | 330120 | 10.76 | 545611 | 13.09 | 1605850 | 7.68 |
| 04 BP-SO-B09-14 | 288059 | 10.76 | 466198 | 13.09 | 1318148 | 7.69 |
| 05 BP-SO-B09-18 | 290997 | 10.76 | 490373 | 13.09 | 1323373 | 7.68 |
| 06 BP-SO-B08-10 | 280240 | 10.76 | 461452 | 13.10 | 1280092 | 7.69 |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
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| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-001 | Work Order #....: LE2AJ1AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 09:00 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/17/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 11:32 | |
| Dilution Factor: 500 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 24 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 9600 | 4400 | ug/kg | 660 |
| 2-Methylnaphthalene | 22000 | 4400 | ug/kg | 860 |
| Naphthalene | 550000 | 4400 | ug/kg | 630 |
| Acenaphthylene | 2700 J | 4400 | ug/kg | 870 |
| Acenaphthene | 14000 | 4400 | ug/kg | 700 |
| Fluorene | 6700 | 4400 | ug/kg | 660 |
| Phenanthrene | 8000 | 4400 | ug/kg | 520 |
| Anthracene | 1800 J | 22000 | ug/kg | 770 |
| Fluoranthene | 1900 J | 4400 | ug/kg | 370 |
| Pyrene | 1400 J | 4400 | ug/kg | 1200 |
| Benzo (a) anthracene | ND | 4400 | ug/kg | 700 |
| Chrysene | ND | 4400 | ug/kg | 760 |
| Benzo (b) fluoranthene | ND | 4400 | ug/kg | 880 |
| Benzo (k) fluoranthene | ND | 4400 | ug/kg | 910 |
| Benzo (a) pyrene | ND | 4400 | ug/kg | 1200 |
| Indeno (1,2,3-cd) pyrene | ND | 4400 | ug/kg | 240 |
| Dibenzo (a,h) anthracene | ND | 4400 | ug/kg | 960 |
| Benzo (ghi) perylene | ND | 4400 | ug/kg | 320 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-002 | Work Order #....: LE2A11AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 09:50 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/17/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 11:52 | |
| Dilution Factor: 99.34 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 13 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2200 | 760 | ug/kg | 120 |
| 2-Methylnaphthalene | 5400 | 760 | ug/kg | 150 |
| Naphthalene | 90000 | 760 | ug/kg | 110 |
| Acenaphthylene | 1200 | 760 | ug/kg | 150 |
| Acenaphthene | 2700 | 760 | ug/kg | 120 |
| Fluorene | 1700 | 760 | ug/kg | 110 |
| Phenanthrene | 2300 | 760 | ug/kg | 91 |
| Anthracene | 520 J | 3800 | ug/kg | 130 |
| Fluoranthene | 750 J | 760 | ug/kg | 64 |
| Pyrene | 510 J | 760 | ug/kg | 200 |
| Benzo (a) anthracene | ND | 760 | ug/kg | 120 |
| Chrysene | ND | 760 | ug/kg | 130 |
| Benzo (b) fluoranthene | ND | 760 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | 760 | ug/kg | 160 |
| Benzo (a) pyrene | ND | 760 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | ND | 760 | ug/kg | 42 |
| Dibenzo (a,h) anthracene | ND | 760 | ug/kg | 170 |
| Benzo (ghi) perylene | ND | 760 | ug/kg | 56 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-003 | Work Order #....: LE2A61AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 10:30 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/17/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 12:12 | |
| Dilution Factor: 25 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 29 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2000 | 240 | ug/kg | 35 |
| 2-Methylnaphthalene | 5000 | 240 | ug/kg | 46 |
| Naphthalene | 60000 E | 240 | ug/kg | 34 |
| Acenaphthylene | 1500 | 240 | ug/kg | 47 |
| Acenaphthene | 1100 | 240 | ug/kg | 38 |
| Fluorene | 1400 | 240 | ug/kg | 35 |
| Phenanthrene | 1900 | 240 | ug/kg | 28 |
| Anthracene | 350 J | 1200 | ug/kg | 41 |
| Fluoranthene | 550 | 240 | ug/kg | 20 |
| Pyrene | 410 | 240 | ug/kg | 62 |
| Benzo (a) anthracene | 180 J | 240 | ug/kg | 37 |
| Chrysene | 150 J | 240 | ug/kg | 41 |
| Benzo (b) fluoranthene | 110 J | 240 | ug/kg | 47 |
| Benzo (k) fluoranthene | ND | 240 | ug/kg | 49 |
| Benzo (a) pyrene | 100 J | 240 | ug/kg | 66 |
| Indeno (1,2,3-cd) pyrene | ND | 240 | ug/kg | 13 |
| Dibenzo (a,h) anthracene | ND | 240 | ug/kg | 52 |
| Benzo (ghi) perylene | ND | 240 | ug/kg | 17 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.
E Estimated result. Result concentration exceeds the calibration range.
J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16^{DL}

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-003 | Work Order #....: LE2A62AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 10:30 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/18/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 12:53 | |
| Dilution Factor: 100 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 29 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2700 | 940 | ug/kg | 140 |
| 2-Methylnaphthalene | 6300 | 940 | ug/kg | 180 |
| Naphthalene | 74000 | 940 | ug/kg | 140 |
| Acenaphthylene | 1700 | 940 | ug/kg | 190 |
| Acenaphthene | 1300 | 940 | ug/kg | 150 |
| Fluorene | 1800 | 940 | ug/kg | 140 |
| Phenanthrene | 2400 | 940 | ug/kg | 110 |
| Anthracene | ND | 4600 | ug/kg | 160 |
| Fluoranthene | 660 J | 940 | ug/kg | 79 |
| Pyrene | 560 J | 940 | ug/kg | 250 |
| Benzo (a) anthracene | ND | 940 | ug/kg | 150 |
| Chrysene | ND | 940 | ug/kg | 160 |
| Benzo (b) fluoranthene | ND | 940 | ug/kg | 190 |
| Benzo (k) fluoranthene | ND | 940 | ug/kg | 200 |
| Benzo (a) pyrene | ND | 940 | ug/kg | 260 |
| Indeno (1,2,3-cd) pyrene | ND | 940 | ug/kg | 52 |
| Dibenzo (a,h) anthracene | ND | 940 | ug/kg | 210 |
| Benzo (ghi) perylene | ND | 940 | ug/kg | 69 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-004 | Work Order #....: LE2CM1AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 12:30 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/18/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 13:13 | |
| Dilution Factor: 250 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 19 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 2-Methylnaphthalene | 7600 | 2100 | ug/kg | 400 |
| 1-Methylnaphthalene | 3700 | 2100 | ug/kg | 310 |
| Naphthalene | 82000 | 2100 | ug/kg | 300 |
| Acenaphthylene | 1400 J | 2100 | ug/kg | 410 |
| Acenaphthene | 2000 J | 2100 | ug/kg | 330 |
| Fluorene | 6100 | 2100 | ug/kg | 310 |
| Phenanthrene | 2900 | 2100 | ug/kg | 250 |
| Anthracene | ND | 10000 | ug/kg | 360 |
| Fluoranthene | 1800 J | 2100 | ug/kg | 170 |
| Pyrene | 2300 | 2100 | ug/kg | 550 |
| Benzo (a) anthracene | ND | 2100 | ug/kg | 330 |
| Chrysene | ND | 2100 | ug/kg | 360 |
| Benzo (b) fluoranthene | 1100 J | 2100 | ug/kg | 420 |
| Benzo (k) fluoranthene | ND | 2100 | ug/kg | 430 |
| Benzo (a) pyrene | 870 J | 2100 | ug/kg | 580 |
| Indeno (1,2,3-cd) pyrene | 400 J | 2100 | ug/kg | 110 |
| Dibenzo (a,h) anthracene | ND | 2100 | ug/kg | 450 |
| Benzo (ghi) perylene | 860 J | 2100 | ug/kg | 150 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-005 | Work Order #....: LE2CN1AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 13:30 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/17/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 13:32 | |
| Dilution Factor: 500 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 18 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 5900 | 4100 | ug/kg | 620 |
| 2-Methylnaphthalene | 14000 | 4100 | ug/kg | 800 |
| Naphthalene | 110000 | 4100 | ug/kg | 590 |
| Acenaphthylene | 5400 | 4100 | ug/kg | 810 |
| Acenaphthene | 3100 J | 4100 | ug/kg | 660 |
| Fluorene | 18000 | 4100 | ug/kg | 620 |
| Phenanthrene | 94000 | 4100 | ug/kg | 490 |
| Anthracene | 27000 | 20000 | ug/kg | 720 |
| Fluoranthene | 89000 | 4100 | ug/kg | 350 |
| Pyrene | 52000 | 4100 | ug/kg | 1100 |
| Benzo (a) anthracene | 29000 | 4100 | ug/kg | 650 |
| Chrysene | 31000 | 4100 | ug/kg | 710 |
| Benzo (b) fluoranthene | 37000 | 4100 | ug/kg | 830 |
| Benzo (k) fluoranthene | ND | 4100 | ug/kg | 850 |
| Benzo (a) pyrene | 26000 | 4100 | ug/kg | 1100 |
| Indeno (1,2,3-cd) pyrene | 12000 | 4100 | ug/kg | 220 |
| Dibenzo (a,h) anthracene | ND | 4100 | ug/kg | 900 |
| Benzo (ghi) perylene | 14000 | 4100 | ug/kg | 300 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.
J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F160238-006 | Work Order #....: LE2CP1AC | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 14:00 | Date Received...: 06/16/09 10:00 | MS Run #.....: 9168004 |
| Prep Date.....: 06/17/09 | Analysis Date...: 06/18/09 | |
| Prep Batch #....: 9168012 | Analysis Time...: 13:33 | |
| Dilution Factor: 250 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 33 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 3000 | 2500 | ug/kg | 380 |
| 2-Methylnaphthalene | 7700 | 2500 | ug/kg | 490 |
| Naphthalene | 130000 | 2500 | ug/kg | 360 |
| Acenaphthylene | 1100 J | 2500 | ug/kg | 500 |
| Acenaphthene | 710 J | 2500 | ug/kg | 400 |
| Fluorene | ND | 2500 | ug/kg | 380 |
| Phenanthrene | 21000 | 2500 | ug/kg | 300 |
| Anthracene | 7800 J | 12000 | ug/kg | 440 |
| Fluoranthene | 26000 | 2500 | ug/kg | 210 |
| Pyrene | 20000 | 2500 | ug/kg | 670 |
| Benzo (a) anthracene | 11000 | 2500 | ug/kg | 400 |
| Chrysene | 11000 | 2500 | ug/kg | 440 |
| Benzo (b) fluoranthene | 13000 | 2500 | ug/kg | 510 |
| Benzo (k) fluoranthene | ND | 2500 | ug/kg | 520 |
| Benzo (a) pyrene | 8400 | 2500 | ug/kg | 700 |
| Indeno (1,2,3-cd) pyrene | 3600 | 2500 | ug/kg | 140 |
| Dibenzo (a,h) anthracene | 1100 J | 2500 | ug/kg | 550 |
| Benzo (ghi) perylene | 2800 | 2500 | ug/kg | 180 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F160238

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B08-6 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-SO-B08-10 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | BP-SO-B08-16 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | BP-SO-B08-16 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B09-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | BP-SO-B09-14 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 07 | BP-SO-B09-18 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | METHOD BLK. LE2XM1AA | 81 | 83 | 76 | 81 | 83 | 78 | 00 |
| 09 | LCS LE2XM1AC | 97 | 88 | 91 | 93 | 93 | 100 | 00 |
| 10 | BP-SO-B08-16 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 11 | BP-SO-B08-16 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F170000

WO #: LE2XM1AC

BATCH: 9168012

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 302 | 90 | 39 - 105 | |
| 2-Chlorophenol | 333 | 280 | 84 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 273 | 82 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 279 | 84 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 274 | 82 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 287 | 86 | 43 - 110 | |
| Acenaphthene | 333 | 286 | 86 | 42 - 104 | |
| 4-Nitrophenol | 333 | 343 | 103 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 322 | 97 | 48 - 118 | |
| Pentachlorophenol | 333 | 328 | 98 | 18 - 125 | |
| Pyrene | 333 | 271 | 81 | 39 - 113 | |
| 4-Methylphenol | 667 | 555 | 83 | 43 - 107 | |
| Hexachloroethane | 333 | 274 | 82 | 40 - 102 | |
| Naphthalene | 333 | 283 | 85 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 282 | 85 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 294 | 88 | 40 - 117 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B08-16

Level: (low/med) LOW

Lot #: C9F160238

WO #: LE2A61A0

BATCH: 9168012

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | 120 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 790 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 290 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | ND | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 42000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B08-16

Level: (low/med) LOW

Lot #: C9F160238

WO #: LE2A61A1

BATCH: 9168012

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|--------|
| | | | | | RPD | REC | |
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LE2XM1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0617025.

Lot Number: C9F160238

Date Analyzed: 06/17/09

Time Analyzed: 10:12

Matrix: SOLID

Date Extracted: 06/17/09

GC Column: DB5

ID: .32

Extraction Method:

Instrument ID: 733

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-SO-B08-6 | LE2AJ1AC | N0617027. | 06/17/09 | 11:32 |
| 02 | BP-SO-B08-10 | LE2A11AC | N0617028. | 06/17/09 | 11:52 |
| 03 | BP-SO-B08-16 | LE2A61AC | N0617029. | 06/17/09 | 12:12 |
| 04 | BP-SO-B08-16 | LE2A61A0 S | N0617030. | 06/17/09 | 12:32 |
| 05 | BP-SO-B08-16 | LE2A61A1 D | N0617031. | 06/17/09 | 12:52 |
| 06 | BP-SO-B08-16 DL | LE2A62AC | N0618001. | 06/18/09 | 12:53 |
| 07 | BP-SO-B09-8 | LE2CM1AC | N0618002. | 06/18/09 | 13:13 |
| 08 | BP-SO-B09-14 | LE2CN1AC | N0617033. | 06/17/09 | 13:32 |
| 09 | BP-SO-B09-18 | LE2CP1AC | N0618003. | 06/18/09 | 13:33 |
| 10 | CHECK SAMPLE | LE2XM1AC C | N0617026. | 06/17/09 | 11:12 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9F160238
MB Lot-Sample #: C9F170000-012

Work Order #...: LE2XM1AA

Matrix.....: SOLID

Analysis Date...: 06/17/09
Dilution Factor: 0.5

Prep Date.....: 06/17/09
Prep Batch #...: 9168012
Initial Wgt/Vol: 30 g
Analyst ID.....: 003200

Analysis Time...: 10:12
Final Wgt/Vol...: 0.5 mL
Instrument ID...: 733

| PARAMETER | RESULT | REPORTING | | | METHOD |
|--------------------------|--------|-----------|-------|-------|--------|
| | | LIMIT | UNITS | | |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 | 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 | 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 | 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 | 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 81 | (27 - 110) |
| Terphenyl-d14 | 83 | (21 - 130) |
| 2-Fluorobiphenyl | 76 | (28 - 108) |
| 2-Fluorophenol | 81 | (28 - 107) |
| Phenol-d5 | 83 | (30 - 112) |
| 2,4,6-Tribromophenol | 78 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F160238

Lab File ID (Standard): N06170CC

Date Analyzed: 06/17/09

Instrument ID: 733

Time Analyzed: 0932

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 118026 | 4.47 | 462092 | 5.44 | 264518 | 6.78 |
| UPPER LIMIT | 236052 | 4.97 | 924184 | 5.94 | 529036 | 7.28 |
| LOWER LIMIT | 59013 | 3.97 | 231046 | 4.94 | 132259 | 6.28 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 125183 | 4.46 | 500646 | 5.43 | 288601 | 6.78 |
| 02 INTRA-LAB CH | 120730 | 4.46 | 461811 | 5.43 | 263638 | 6.78 |
| 03 BP-SO-B08-6 | 146803 | 4.46 | 578819 | 5.43 | 328034 | 6.77 |
| 04 BP-SO-B08-10 | 143822 | 4.46 | 554467 | 5.43 | 329203 | 6.78 |
| 05 BP-SO-B08-16 | 127191 | 4.46 | 503400 | 5.43 | 299271 | 6.78 |
| 06 BP-SO-B08-16 | 135323 | 4.46 | 515258 | 5.44 | 306210 | 6.78 |
| 07 BP-SO-B08-16 | 139492 | 4.46 | 533464 | 5.43 | 309889 | 6.77 |
| 08 BP-SO-B09-14 | 141359 | 4.46 | 545512 | 5.44 | 307607 | 6.78 |
| 09 | | | | | | |
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| 22 | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F160238
 Lab File ID (Standard): N06170CC Date Analyzed: 06/17/09
 Instrument ID: 733 Time Analyzed: 0932

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 422615 | 7.93 | 337500 | 9.96 | 259427 | 11.30 |
| UPPER LIMIT | 845230 | 8.43 | 675000 | 10.46 | 518854 | 11.80 |
| LOWER LIMIT | 211308 | 7.43 | 168750 | 9.46 | 129714 | 10.80 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 474509 | 7.92 | 344992 | 9.95 | 260410 | 11.28 |
| 02 INTRA-LAB CH | 425018 | 7.92 | 361345 | 9.95 | 262906 | 11.28 |
| 03 BP-SO-B08-6 | 537337 | 7.92 | 418462 | 9.95 | 303316 | 11.28 |
| 04 BP-SO-B08-10 | 524036 | 7.91 | 406552 | 9.95 | 312649 | 11.28 |
| 05 BP-SO-B08-16 | 504437 | 7.92 | 404931 | 9.95 | 313002 | 11.29 |
| 06 BP-SO-B08-16 | 513785 | 7.92 | 405074 | 9.96 | 312480 | 11.30 |
| 07 BP-SO-B08-16 | 515509 | 7.92 | 402770 | 9.95 | 310901 | 11.28 |
| 08 BP-SO-B09-14 | 497047 | 7.92 | 396142 | 9.96 | 291885 | 11.30 |
| 09 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F160238
 Lab File ID (Standard): N06180CC Date Analyzed: 06/18/09
 Instrument ID: 733 Time Analyzed: 0935

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|----|----------------------|---------------------|-------|---------------------|-------|---------------------|-------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | 12 HOUR STD | 181738 | 4.43 | 738613 | 5.41 | 455888 | 6.76 |
| | UPPER LIMIT | 363476 | 4.93 | 1477226 | 5.91 | 911776 | 7.26 |
| | LOWER LIMIT | 90869 | 3.93 | 369307 | 4.91 | 227944 | 6.26 |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | CLIENT SAMPLE NO. | | | | | | |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B08-16 | 193509 | 4.43 | 790423 | 5.40 | 492888 | 6.75 |
| 02 | BP-SO-B09-8 | 180676 | 4.43 | 767053 | 5.40 | 472462 | 6.75 |
| 03 | BP-SO-B09-18 | 185891 | 4.43 | 760291 | 5.40 | 475752 | 6.75 |
| 04 | | | | | | | |
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| 22 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F160238

Lab File ID (Standard): N06180CC

Date Analyzed: 06/18/09

Instrument ID: 733

Time Analyzed: 0935

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 773259 | 7.90 | 518783 | 9.94 | 326595 | 11.27 |
| UPPER LIMIT | 1546518 | 8.40 | 1037566 | 10.44 | 653190 | 11.77 |
| LOWER LIMIT | 386630 | 7.40 | 259392 | 9.44 | 163298 | 10.77 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B08-16 | 824560 | 7.89 | 547528 | 9.93 | 353385 | 11.26 |
| 02 BP-SO-B09-8 | 754383 | 7.89 | 471146 | 9.93 | 295705 | 11.26 |
| 03 BP-SO-B09-18 | 749403 | 7.89 | 464338 | 9.93 | 282721 | 11.25 |
| 04 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

TOTAL Metals

Lot-Sample #...: C9F160238-001

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... | 9167526 | | | | | |
| Silver | 0.030 B | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0026 | |
| Arsenic | 3.4 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Beryllium | 0.36 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0049 | |
| Cadmium | 0.21 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0046 | |
| Chromium | 19.2 J | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0040 | |
| Copper | 12.9 | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.022 | |
| Nickel | 5.3 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0074 | |
| Lead | 39.0 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0025 | |
| Antimony | 0.15 | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0017 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

TOTAL Metals

Lot-Sample #...: C9F160238-001

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|------------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.72 | 0.33 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.033 | |
| Thallium | 0.037 B,J | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0013 | |
| Zinc | 25.6 | 0.33 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.042 | |
| Prep Batch #...: 9168119 | | | | | | |
| Mercury | 4.0 | 0.22 | mg/kg | SW846 7471A | 06/17/09 | LE2AJ1AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:35 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.071 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

TOTAL Metals

Lot-Sample #...: C9F160238-002

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 13

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | <u>METHOD</u> | <u>PREPARATION-</u> | <u>WORK</u> |
|----------------------------------|----------------|--------------------------|--------------|-------------------------|-------------------------|-----------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | | <u>ANALYSIS DATE</u> | <u>ORDER #</u> |
| Prep Batch #... : 9167526 | | | | | | |
| Silver | 0.022 B | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.011 | |
| Arsenic | 1.4 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.052 | |
| Beryllium | 2.1 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.022 | |
| Cadmium | 0.24 B | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.020 | |
| Chromium | 8.3 J | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.018 | |
| Copper | 25.4 | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.095 | |
| Nickel | 3.0 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.032 | |
| Lead | 30.0 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.011 | |
| Antimony | 0.11 B | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0075 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

TOTAL Metals

Lot-Sample #...: C9F160238-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>WORK</u> <u>ORDER #</u> |
|------------------|------------------|----------------------------------|--------------|-------------------------|---|-------------------------------|
| Selenium | 4.2 | 1.4 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.14 | |
| Thallium | 0.018 B,J | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0057 | |
| Zinc | 12.7 | 1.4 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.19 | |

Prep Batch #...: 9168119

| | | | | | | |
|----------------|------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 4.0 | 0.19 | mg/kg | SW846 7471A | 06/17/09 | LE2A11AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:37 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.063 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

TOTAL Metals

Lot-Sample #....: C9F160238-003

Matrix.....: SOLID

Date Sampled....: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 29

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9167526 | | | | | | |
| Silver | 0.050 B | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.014 | |
| Arsenic | 0.73 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.064 | |
| Beryllium | 2.4 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.026 | |
| Cadmium | 0.43 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.025 | |
| Chromium | 4.6 J | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.021 | |
| Copper | 29.3 | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.12 | |
| Nickel | 1.2 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.040 | |
| Lead | 7.5 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.013 | |
| Antimony | 0.020 B | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0091 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

TOTAL Metals

Lot-Sample #...: C9F160238-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 6.2 | 1.8 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.18 | |
| Thallium | 0.013 B,J | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0070 | |
| Zinc | 8.5 | 1.8 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.23 | |
| Prep Batch #...: 9168119 | | | | | | |
| Mercury | 0.31 | 0.023 | mg/kg | SW846 7471A | 06/17/09 | LE2A61AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:13 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0077 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

TOTAL Metals

Lot-Sample #... C9F160238-004

Matrix.....: SOLID

Date Sampled... 06/15/09

Date Received... 06/16/09

% Moisture.....: 19

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #... | 9167526 | | | | | |
| Silver | 0.50 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Arsenic | 5.9 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.056 | |
| Beryllium | 1.9 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.023 | |
| Cadmium | 4.0 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.022 | |
| Chromium | 566 J | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.019 | |
| Copper | 87.5 | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.10 | |
| Nickel | 25.5 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.035 | |
| Lead | 152 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Antimony | 1.2 | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0080 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

TOTAL Metals

Lot-Sample #...: C9F160238-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 2.7 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CMIAM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.15 | |
| Thallium | 0.074 B,J | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CMIAN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0062 | |
| Zinc | 447 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CMIAP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.20 | |

Prep Batch #...: 9168119

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.045 | 0.020 | mg/kg | SW846 7471A | 06/17/09 | LE2CMIAR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:22 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0067 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

TOTAL Metals

Lot-Sample #...: C9F160238-005

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 18

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9167526 | | | | | | |
| Silver | 0.60 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Arsenic | 8.6 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.055 | |
| Beryllium | 1.1 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.023 | |
| Cadmium | 4.3 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.021 | |
| Chromium | 182 J | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.019 | |
| Copper | 66.9 | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.10 | |
| Nickel | 26.8 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.035 | |
| Lead | 1070 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Antimony | 1.8 | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0080 | |

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

TOTAL Metals

Lot-Sample #...: C9F160238-005

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 3.9 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.15 | |
| | | | | | | |
| Thallium | 0.89 J | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0061 | |
| | | | | | | |
| Zinc | 2070 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.20 | |

Prep Batch #...: 9168119

| | | | | | | |
|----------------|-------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.55 | 0.020 | mg/kg | SW846 7471A | 06/17/09 | LE2CN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:23 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0067 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

TOTAL Metals

Lot-Sample #...: C9F160238-006

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 33

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|--------------------------|--------|--------------------------|-------|-------------------------|-------------------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Prep Batch #...: 9167526 | | | | | | |
| Silver | 0.30 B | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.015 | |
| Arsenic | 10.0 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.068 | |
| Beryllium | 1.9 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.028 | |
| Cadmium | 3.0 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.026 | |
| Chromium | 53.6 J | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.023 | |
| Copper | 50.8 | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.12 | |
| Nickel | 38.1 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.042 | |
| Lead | 371 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.014 | |
| Antimony | 1.1 | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0098 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

TOTAL Metals

Lot-Sample #...: C9F160238-006

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 5.3 | 1.9 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.19 | |
| Thallium | 0.92 J | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0075 | |
| Zinc | 1110 | 1.9 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.24 | |

Prep Batch #...: 9168119

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.53 | 0.025 | mg/kg | SW846 7471A | 06/17/09 | LE2CP1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:25 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0082 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|----------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9F160000-526 Prep Batch #...: 9167526 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.050 B | 0.10 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | 0.0048 B | 0.050 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 16:36 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F160238

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------------|--------|-------------------------|-------|-----------------------|-------------------------------|-----------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2N11AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 16:36 | | Analyst ID.....: 400149 | | Instrument ID...: ICP | | |

MB Lot-Sample #: C9F170000-119 Prep Batch #....: 9168119

| | | | | | | |
|-------------------------|----|-------------------------|-------|-----------------------|----------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/17/09 | LE26E1AA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 15:10 | | Analyst ID.....: 403938 | | Instrument ID...: HGH | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F160000-526 Prep Batch #... : 9167526 | | | | | |
| Arsenic | 96 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AP | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 94 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AQ | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 97 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AR | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 100 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AT | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 105 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AU | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 103 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AV | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 106 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AW | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 93 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11AX | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 94 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11A0 | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 102 | (80 - 120) | SW846 6020 | 06/16-06/21/09 LE2N11A1 | |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F160238

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|------------------|---------------------|---------------------------|------------------------|-------------------------------|--------------|
| Zinc | 98 | (80 - 120) | SW846 6020 | 06/16-06/21/09 | LE2N11A2 |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 102 | (80 - 120) | SW846 6020 | 06/16-06/21/09 | LE2N11A3 |
| | | Dilution Factor: 0.5 | Analysis Time..: 16:40 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: | C9F170000-119 | Prep Batch #....: | 9168119 | | |
| Mercury | 99 | (80 - 120) | SW846 7471A | 06/17/09 | LE26E1AC |
| | | Dilution Factor: 0.5 | Analysis Time..: 15:12 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F160000-526 Prep Batch #...: 9167526 | | | | | | | |
| Arsenic | 2.00 | 1.92 | mg/kg | 96 | SW846 6020 | 06/16-06/21/09 | LE2N11AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.35 | mg/kg | 94 | SW846 6020 | 06/16-06/21/09 | LE2N11AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.43 | mg/kg | 97 | SW846 6020 | 06/16-06/21/09 | LE2N11AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.0 | mg/kg | 100 | SW846 6020 | 06/16-06/21/09 | LE2N11AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 13.1 | mg/kg | 105 | SW846 6020 | 06/16-06/21/09 | LE2N11AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 25.7 | mg/kg | 103 | SW846 6020 | 06/16-06/21/09 | LE2N11AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 1.06 | mg/kg | 106 | SW846 6020 | 06/16-06/21/09 | LE2N11AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.3 | mg/kg | 93 | SW846 6020 | 06/16-06/21/09 | LE2N11AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.472 | mg/kg | 94 | SW846 6020 | 06/16-06/21/09 | LE2N11A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Thallium | 2.50 | 2.54 | mg/kg | 102 | SW846 6020 | 06/16-06/21/09 | LE2N11A1 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| Zinc | 25.0 | 24.5 | mg/kg | 98 | SW846 6020 | 06/16-06/21/09 | LE2N11A2 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Silver | 2.50 | 2.54 | mg/kg | 102 | SW846 6020 | 06/16-06/21/09 | LE2N11A3 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 16:40 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

LCS Lot-Sample#: C9F170000-119 Prep Batch #...: 9168119

| | | | | | | | |
|---------|-------|-------|-------|---------------------------|-------------------------|-------------------------|----------|
| Mercury | 0.208 | 0.206 | mg/kg | 99 | SW846 7471A | 06/17/09 | LE26E1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 15:12 | Analyst ID.....: 403938 | |
| | | | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-------------|------------|----------------------------|--------------|
| MS Lot-Sample #: C9F160238-003 Prep Batch #...: 9167526 | | | | | | |
| % Moisture.....: 29 | | | | | | |
| Antimony | 35 N | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61CH |
| | 35 N | (75 - 125) | 0.48 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CJ |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Arsenic | 86 | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61A2 |
| | 88 | (75 - 125) | 1.3 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61A3 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Beryllium | 81 | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61A4 |
| | 87 | (75 - 125) | 4.0 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61A5 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Cadmium | 86 | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61A6 |
| | 92 | (75 - 125) | 5.5 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61A7 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Chromium | 64 N | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61A8 |
| | 68 N | (75 - 125) | 4.3 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61A9 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Copper | 62 N | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61CA |
| | 116 * | (75 - 125) | 21 (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CC |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/16-06/21/09 | LE2A61CF |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CG |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 17:20 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9167295 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

| | PERCENT | RECOVERY | | RPD | | PREPARATION- | WORK |
|-----------|----------|-------------------------|-----|--------------------------|------------|-------------------------|----------|
| PARAMETER | RECOVERY | LIMITS | | LIMITS | METHOD | ANALYSIS DATE | ORDER # |
| Nickel | 79 | (75 - 125) | | | SW846 6020 | 06/16-06/21/09 | LE2A61CD |
| | 81 | (75 - 125) | 1.7 | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CE |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9167295 | | | | | |
| Selenium | NC | (75 - 125) | | | SW846 6020 | 06/16-06/21/09 | LE2A61CK |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CL |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9167295 | | | | | |
| Silver | 87 | (75 - 125) | | | SW846 6020 | 06/16-06/21/09 | LE2A61CR |
| | 90 | (75 - 125) | 3.6 | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CT |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9167295 | | | | | |
| Thallium | 89 | (75 - 125) | | | SW846 6020 | 06/16-06/21/09 | LE2A61CM |
| | 93 | (75 - 125) | 4.2 | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CN |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9167295 | | | | | |
| Zinc | 70 N | (75 - 125) | | | SW846 6020 | 06/16-06/21/09 | LE2A61CP |
| | 74 N | (75 - 125) | 4.2 | (0-20) | SW846 6020 | 06/16-06/21/09 | LE2A61CQ |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9167295 | | | | | |

MS Lot-Sample #: C9F160238-003 Prep Batch #...: 9168119

% Moisture.....: 29

| | | | | | | | |
|---------|-------|-------------------------|-----|---------------------------|-------------|-------------------------|----------|
| Mercury | 209 N | (75 - 125) | | | SW846 7471A | 06/17/09 | LE2A61CU |
| | 178 N | (75 - 125) | 6.7 | (0-20) | SW846 7471A | 06/17/09 | LE2A61CV |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 15:15 | | Instrument ID...: HGHYDRA | | Analyst ID.....: 403938 | |
| | | MS Run #.....: 9168072 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F160238

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F160238-003 Prep Batch #....: 9167526

% Moisture.....: 29

Antimony

| | | | | | | | | |
|-------------------------|------|--------|-------|--------------------------|------|-------------------------|----------------|----------|
| 0.020 | 35.2 | 12.3 N | mg/kg | 35 | | SW846 6020 | 06/16-06/21/09 | LE2A61CH |
| 0.020 | 35.2 | 12.2 N | mg/kg | 35 | 0.48 | SW846 6020 | 06/16-06/21/09 | LE2A61CJ |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

Arsenic

| | | | | | | | | |
|-------------------------|------|------|-------|--------------------------|-----|-------------------------|----------------|----------|
| 0.73 | 2.81 | 3.16 | mg/kg | 86 | | SW846 6020 | 06/16-06/21/09 | LE2A61A2 |
| 0.73 | 2.81 | 3.20 | mg/kg | 88 | 1.3 | SW846 6020 | 06/16-06/21/09 | LE2A61A3 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

Beryllium

| | | | | | | | | |
|-------------------------|------|------|-------|--------------------------|-----|-------------------------|----------------|----------|
| 2.4 | 3.52 | 5.29 | mg/kg | 81 | | SW846 6020 | 06/16-06/21/09 | LE2A61A4 |
| 2.4 | 3.52 | 5.51 | mg/kg | 87 | 4.0 | SW846 6020 | 06/16-06/21/09 | LE2A61A5 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

Cadmium

| | | | | | | | | |
|-------------------------|------|------|-------|--------------------------|-----|-------------------------|----------------|----------|
| 0.43 | 3.52 | 3.47 | mg/kg | 86 | | SW846 6020 | 06/16-06/21/09 | LE2A61A6 |
| 0.43 | 3.52 | 3.67 | mg/kg | 92 | 5.5 | SW846 6020 | 06/16-06/21/09 | LE2A61A7 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

Chromium

| | | | | | | | | |
|-------------------------|------|--------|-------|--------------------------|-----|-------------------------|----------------|----------|
| 4.6 | 14.1 | 13.6 N | mg/kg | 64 | | SW846 6020 | 06/16-06/21/09 | LE2A61A8 |
| 4.6 | 14.1 | 14.2 N | mg/kg | 68 | 4.3 | SW846 6020 | 06/16-06/21/09 | LE2A61A9 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

Copper

| | | | | | | | | |
|-------------------------|------|--------|-------|--------------------------|----|-------------------------|----------------|----------|
| 29.3 | 17.6 | 40.2 N | mg/kg | 62 | | SW846 6020 | 06/16-06/21/09 | LE2A61CA |
| 29.3 | 17.6 | 49.7 * | mg/kg | 116 | 21 | SW846 6020 | 06/16-06/21/09 | LE2A61CC |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 17:20 | | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| MS Run #.....: 9167295 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F160238

Matrix.....: SOLID

Date Sampled....: 06/15/09

Date Received...: 06/16/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|----------|--------------------------|-----|-------------------------|----------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Lead | | | | | | | | | |
| | 7.5 | 1.41 | 6.20 | NC mg/kg | | | SW846 6020 | 06/16-06/21/09 | LE2A61CF |
| | 7.5 | 1.41 | 8.79 | NC mg/kg | | | SW846 6020 | 06/16-06/21/09 | LE2A61CG |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |
| Nickel | | | | | | | | | |
| | 1.2 | 35.2 | 29.1 | mg/kg | 79 | | SW846 6020 | 06/16-06/21/09 | LE2A61CD |
| | 1.2 | 35.2 | 29.6 | mg/kg | 81 | 1.7 | SW846 6020 | 06/16-06/21/09 | LE2A61CE |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |
| Selenium | | | | | | | | | |
| | 6.2 | 0.703 | 6.42 | NC mg/kg | | | SW846 6020 | 06/16-06/21/09 | LE2A61CK |
| | 6.2 | 0.703 | 7.25 | NC mg/kg | | | SW846 6020 | 06/16-06/21/09 | LE2A61CL |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |
| Silver | | | | | | | | | |
| | 0.050 | 3.52 | 3.11 | mg/kg | 87 | | SW846 6020 | 06/16-06/21/09 | LE2A61CR |
| | 0.050 | 3.52 | 3.23 | mg/kg | 90 | 3.6 | SW846 6020 | 06/16-06/21/09 | LE2A61CT |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.013 | 3.52 | 3.14 | mg/kg | 89 | | SW846 6020 | 06/16-06/21/09 | LE2A61CM |
| | 0.013 | 3.52 | 3.27 | mg/kg | 93 | 4.2 | SW846 6020 | 06/16-06/21/09 | LE2A61CN |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |
| Zinc | | | | | | | | | |
| | 8.5 | 35.2 | 33.1 | N mg/kg | 70 | | SW846 6020 | 06/16-06/21/09 | LE2A61CP |
| | 8.5 | 35.2 | 34.5 | N mg/kg | 74 | 4.2 | SW846 6020 | 06/16-06/21/09 | LE2A61CQ |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 17:20 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9167295 | | | | | | |

MS Lot-Sample #: C9F160238-003 Prep Batch #....: 9168119

% Moisture.....: 29

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F160238

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------|-----------|---------------|---------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 0.31 | 0.117 | 0.558 | N mg/kg | 209 | | SW846 7471A | 06/17/09 | LE2A61CU |
| | 0.31 | 0.117 | 0.522 | N mg/kg | 178 | 6.7 | SW846 7471A | 06/17/09 | LE2A61CV |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 15:15 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | | | | |
| MS Run #.....: 9168072 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

GENERAL CHEMISTRY SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

General Chemistry

Lot-Sample #...: C9F160238-001

Work Order #...: LE2AJ

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 24

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------|--------------------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 19.8 | 0.65 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 1 | Analysis Time...: 11:44 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.11 | | | |
| Percent Solids | 76.4 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

General Chemistry

Lot-Sample #....: C9F160238-002 Work Order #....: LE2A1 Matrix.....: SOLID
Date Sampled....: 06/15/09 Date Received...: 06/16/09
% Moisture.....: 13

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|-----------|---------------------|-------------------------|---------------------------------------|-------------------------|
| Cyanide, Total | 54.5 | 5.7 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 10 | Analysis Time...: 12:21 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.99 | | | |
| Percent Solids | 87.1 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

General Chemistry

Lot-Sample #....: C9F160238-003 Work Order #....: LE2A6 Matrix.....: SOLID
Date Sampled....: 06/15/09 Date Received...: 06/16/09
% Moisture.....: 29

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|-----------|---------------------|-------------------------|---------------------------------------|-------------------------|
| Cyanide, Total | 45.7 | 7.0 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 10 | Analysis Time...: 12:21 | MS Run #.....: 9169167 | |
| | | | MDL.....: 1.2 | | | |
| Percent Solids | 71.1 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

General Chemistry

Lot-Sample #...: C9F160238-004 Work Order #...: LE2CM Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/16/09
% Moisture.....: 19

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|---------------|--------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Cyanide, Total | 6.8 | 0.62 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | Dilution Factor: 1 | | Analysis Time...: 11:47 | MS Run #.....: 9169167 | |
| | | MDL.....: 0.11 | | | | |
| Percent Solids | 81.2 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | Dilution Factor: 1 | | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | MDL.....: 0.0 | | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

General Chemistry

Lot-Sample #...: C9F160238-005

Work Order #...: LE2CN

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 18

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|--------------------|-------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 18.9 | 0.61 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | Dilution Factor: 1 | | Analysis Time...: 11:47 | MS Run #.....: 9169167 | |
| | | MDL.....: 0.11 | | | | |
| Percent Solids | 81.6 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | Dilution Factor: 1 | | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | MDL.....: 0.0 | | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

General Chemistry

Lot-Sample #...: C9F160238-006 Work Order #...: LE2CP Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/16/09
% Moisture.....: 33

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------|--------------------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 8.0 | 0.75 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 1 | Analysis Time...: 11:47 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.13 | | | |
| Percent Solids | 66.5 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C9F160238

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|-------------------------|-------|------------------|-------------------------------|-----------------|
| Cyanide, Total | ND | Work Order #: LE6JR1AA | | MB Lot-Sample #: | C9F180000-291 | |
| | | 0.50 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 11:29 | | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C9F160238

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|-----------------------------|---|-------------------------|---------------------------------------|-------------------------|
| Cyanide, Total | 101 | Work Order #: LE6JR1AC LCS Lot-Sample#: C9F180000-291 (38 - 162) | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | Dilution Factor: 1 | Analysis Time...: 11:29 | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C9F160238

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | LIMITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-------------------------|---------------------|--------------------|-------------------------------|--------|-------------|-------------------------------|-----------------|
| % Moisture.....: 72 | | | | | | | |
| Cyanide, Total | | | WO#: LEM7G1CK-MS/LEM7G1CL-MSD | | | MS Lot-Sample #: | C9F100272-001 |
| | 88 | (85 - 115) | | | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | 73 N | (85 - 115) | 20 | (0-20) | SW846 9012A | 06/18-06/19/09 | 9169291 |
| Dilution Factor: 1 | | | | | | | |
| Analysis Time...: 11:29 | | | | | | | |
| MS Run #.....: 9169167 | | | | | | | |
| Cyanide, Total | | | WO#: LE2A61CW-MS/LE2A61CX-MSD | | | MS Lot-Sample #: | C9F160238-003 |
| | NC,DIL | (85 - 115) | | | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | NC,DIL | (85 - 115) | | (0-20) | SW846 9012A | 06/18-06/19/09 | 9169291 |
| Dilution Factor: 10 | | | | | | | |
| Analysis Time...: 12:21 | | | | | | | |
| MS Run #.....: 9169167 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F160238

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B08-6 | C9F160238-001 | Soil |
| 2 | BP-SO-B08-10 | C9F160238-002 | Soil |
| 3 | BP-SO-B08-16 | C9F160238-003 | Soil |
| 4 | BP-SO-B09-8 | C9F160238-004 | Soil |
| 5 | BP-SO-B09-14 | C9F160238-005 | Soil |
| 6 | BP-SO-B09-18 | C9F160238-006 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| Reference | Cyanide | Ok/73%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

General Chemistry

Lot-Sample #...: C9F160238-001

Work Order #...: LE2AJ

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 24

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------|--------------------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 19.8 L | 0.65 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 1 | Analysis Time...: 11:44 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.11 | | | |
| Percent Solids | 76.4 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

NW
8/11/09

2

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

General Chemistry

Lot-Sample #....: C9F160238-002 Work Order #....: LE2A1 Matrix.....: SOLID
 Date Sampled....: 06/15/09 Date Received...: 06/16/09
 % Moisture.....: 13

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|-----|---------------------|------------------------|-------------------------------|-----------------|
| Cyanide, Total | 54.5 L | 5.7 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 10 | Analysis Time..: 12:21 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.99 | | | |
| Percent Solids | 87.1 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time..: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

lws
8/11/09

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Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

General Chemistry

Lot-Sample #...: C9F160238-003 Work Order #...: LE2A6 Matrix.....: SOLID
 Date Sampled...: 06/15/09 Date Received...: 06/16/09
 % Moisture.....: 29

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|---------------|-----|---------------------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 45.7 <i>L</i> | 7.0 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 10 | Analysis Time...: 12:21 | MS Run #.....: 9169167 | |
| | | | MDL.....: 1.2 | | | |
| Percent Solids | 71.1 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE (S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

llw
8/11/09

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

General Chemistry

Lot-Sample #...: C9F160238-004 Work Order #...: LE2CM Matrix.....: SOLID
 Date Sampled...: 06/15/09 Date Received...: 06/16/09
 % Moisture.....: 19

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------|-------|--------------------|-------------------------------|------------------------|
| Cyanide, Total | 6.8 L | 0.62 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | | Dilution Factor: 1 | Analysis Time...: 11:47 | MS Run #.....: 9169167 |
| | | | | MDL.....: 0.11 | | |
| Percent Solids | 81.2 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 |
| | | | | MDL.....: 0.0 | | |

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

MS
8/11/09

6

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

General Chemistry

Lot-Sample #...: C9F160238-006

Work Order #...: LE2CP

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 33

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|----------------|--------|------|--------------------|-------------------------|-------------------------------|-----------------|
| Cyanide, Total | 8.0 L | 0.75 | mg/kg | SW846 9012A | 06/18-06/19/09 | 9169291 |
| | | | Dilution Factor: 1 | Analysis Time...: 11:47 | MS Run #.....: 9169167 | |
| | | | MDL.....: 0.13 | | | |
| Percent Solids | 66.5 | 1.0 | % | SM20 2540G | 06/17-06/18/09 | 9168355 |
| | | | Dilution Factor: 1 | Analysis Time...: 00:00 | MS Run #.....: 9168229 | |
| | | | MDL.....: 0.0 | | | |

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

WJ
8/11/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F160238

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B08-6 | C9F160238-001 | Soil |
| 2 | BP-SO-B08-10 | C9F160238-002 | Soil |
| 3 | BP-SO-B08-16 | C9F160238-003 | Soil |
| 3MS | BP-SO-B08-16MS | C9F160238-003MS | Soil |
| 3MSD | BP-SO-B08-16MSD | C9F160238-003MSD | Soil |
| 4 | BP-SO-B09-8 | C9F160238-004 | Soil |
| 5 | BP-SO-B09-14 | C9F160238-005 | Soil |
| 6 | BP-SO-B09-18 | C9F160238-006 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration with the exception of the following:

| Compound | Conc. mg/kg | Action Level mg/kg | Qualifier | Affected Samples |
|----------|----------------|-----------------------|-----------|------------------|
| Chromium | 0.050 | 0.25 | None | All >5X |
| Thallium | 0.0048 | 0.024 | B | 2, 3 |

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 3 | Antimony | 35%/35%/Ok | L/UL | All samples |
| | Chromium | 64%/68%/Ok | L/UL | All samples |
| | Copper | 62%/Ok/Ok | L/UL | All samples |
| | Zinc | 70%/74%/Ok | L/UL | All samples |
| | Mercury | 209%/178%/Ok | K | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

TOTAL Metals

Lot-Sample #...: C9F160238-001

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... | 9167526 | | | | | |
| Silver | 0.030 <i>H J</i> | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0026 | |
| Arsenic | 3.4 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.012 | |
| Beryllium | 0.36 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0049 | |
| Cadmium | 0.21 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0046 | |
| Chromium | 19.2 <i>L</i> | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0040 | |
| Copper | 12.9 <i>L</i> | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.022 | |
| Nickel | 5.3 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0074 | |
| Lead | 39.0 | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0025 | |
| Antimony | 0.15 <i>L</i> | 0.13 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0017 | |

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W
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

TOTAL Metals

Lot-Sample #...: C9F160238-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.72 | 0.33 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.033 | |
| Thallium | 0.037 B/J | 0.065 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0013 | |
| Zinc | 25.6 L | 0.33 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2AJ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 16:49 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.042 | |
| Prep Batch #... | 9168119 | | | | | |
| Mercury | 4.0 K | 0.22 | mg/kg | SW846 7471A | 06/17/09 | LE2AJ1AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:35 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.071 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

mw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

TOTAL Metals

Lot-Sample #....: C9F160238-002

Matrix.....: SOLID

Date Sampled....: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 13

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: 9167526 | | | | | | |
| Silver | 0.022 <i>JS</i> | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.011 |
| Arsenic | 1.4 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.052 |
| Beryllium | 2.1 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.022 |
| Cadmium | 0.24 <i>JS</i> | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.020 |
| Chromium | 8.3 <i>JS</i> | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.018 |
| Copper | 25.4 <i>L</i> | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.095 |
| Nickel | 3.0 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.032 |
| Lead | 30.0 | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.011 |
| Antimony | 0.11 <i>JS</i> | 0.57 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.0075 |

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hw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

TOTAL Metals

Lot-Sample #...: C9F160238-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 4.2 | 1.4 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.14 | |
| Thallium | 0.018 BJB | 0.29 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0057 | |
| Zinc | 12.7 L | 1.4 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A11AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:53 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.19 | |

Prep Batch #...: 9168119

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 4.0 K | 0.19 | mg/kg | SW846 7471A | 06/17/09 | LE2A11AR |
| | | Dilution Factor: 5 | | Analysis Time...: 15:37 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.063 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

New
8/11/09

Maryland Environmental Service

3

Client Sample ID: BP-SO-B08-16

TOTAL Metals

Lot-Sample #...: C9F160238-003

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 29

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9167526 | | | | | |
| Silver | 0.050 <i>JS</i> | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.014 |
| Arsenic | 0.73 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.064 |
| Beryllium | 2.4 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.026 |
| Cadmium | 0.43 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.025 |
| Chromium | 4.6 <i>SL</i> | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.021 |
| Copper | 29.3 <i>L</i> | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.12 |
| Nickel | 1.2 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.040 |
| Lead | 7.5 | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.013 |
| Antimony | 0.020 <i>SL</i> | 0.70 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.0091 |

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lw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

3

TOTAL Metals

Lot-Sample #...: C9F160238-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|--------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 6.2 | 1.8 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.18 | |
| Thallium | 0.013 B, <i>JB</i> | 0.35 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0070 | |
| Zinc | 8.5 <i>L</i> | 1.8 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2A61AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 16:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.23 | |
| Prep Batch #... | 9168119 | | | | | |
| Mercury | 0.31 <i>K</i> | 0.023 | mg/kg | SW846 7471A | 06/17/09 | LE2A61AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:13 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0077 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

hw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

TOTAL Metals

Lot-Sample #....: C9F160238-004

Matrix.....: SOLID

Date Sampled....: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 19

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: 9167526 | | | | | | |
| Silver | 0.50 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.012 |
| Arsenic | 5.9 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.056 |
| Beryllium | 1.9 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.023 |
| Cadmium | 4.0 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.022 |
| Chromium | 566 <i>PL</i> | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.019 |
| Copper | 87.5 <i>L</i> | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.10 |
| Nickel | 25.5 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.035 |
| Lead | 152 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.012 |
| Antimony | 1.2 <i>L</i> | 0.62 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.0080 |

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mw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

TOTAL Metals

Lot-Sample #...: C9F160238-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 2.7 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.15 | |
| Thallium | 0.074 B/J | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0062 | |
| Zinc | 447 L | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CM1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.20 | |
| Prep Batch #... | 9168119 | | | | | |
| Mercury | 0.045 K | 0.020 | mg/kg | SW846 7471A | 06/17/09 | LE2CM1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:22 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0067 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

juw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

TOTAL Metals

Lot-Sample #....: C9F160238-005

Matrix.....: SOLID

Date Sampled....: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 18

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: 9167526 | | | | | | |
| Silver | 0.60 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.012 |
| Arsenic | 8.6 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.055 |
| Beryllium | 1.1 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.023 |
| Cadmium | 4.3 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.021 |
| Chromium | 182 <i>JL</i> | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.019 |
| Copper | 66.9 <i>L</i> | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.10 |
| Nickel | 26.8 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.035 |
| Lead | 1070 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.012 |
| Antimony | 1.8 <i>L</i> | 0.61 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | | MDL.....: 0.0080 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

TOTAL Metals

Lot-Sample #...: C9F160238-005

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.9 | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.15 | |
| Thallium | 0.89 5 | 0.31 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0061 | |
| Zinc | 2070 L | 1.5 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CN1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:32 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.20 | |

Prep Batch #...: 9168119

| | | | | | | |
|---------|--------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.55 K | 0.020 | mg/kg | SW846 7471A | 06/17/09 | LE2CN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:23 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0067 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

new
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

TOTAL Metals

Lot-Sample #...: C9F160238-006

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/16/09

% Moisture.....: 33

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9167526 | | | | | | |
| Silver | 0.30 <i>PJ</i> | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.015 | |
| Arsenic | 10.0 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.068 | |
| Beryllium | 1.9 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.028 | |
| Cadmium | 3.0 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.026 | |
| Chromium | 53.6 <i>PL</i> | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.023 | |
| Copper | 50.8 <i>L</i> | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.12 | |
| Nickel | 38.1 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.042 | |
| Lead | 371 | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.014 | |
| Antimony | 1.1 <i>L</i> | 0.75 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0098 | |

(Continued on next page)

lul
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

TOTAL Metals

Lot-Sample #...: C9F160238-006

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 5.3 | 1.9 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.19 | |
| Thallium | 0.92 J | 0.38 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.0075 | |
| Zinc | 1110 L | 1.9 | mg/kg | SW846 6020 | 06/16-06/21/09 | LE2CP1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 17:37 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9167295 | MDL.....: 0.24 | |

Prep Batch #...: 9168119

| | | | | | | |
|---------|--------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.53 K | 0.025 | mg/kg | SW846 7471A | 06/17/09 | LE2CP1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 15:25 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9168072 | MDL.....: 0.0082 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

8/11/09

POLYNUCLEAR AROMATIC HYDRCARBONS

USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F160238

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B08-6 | C9F160238-001 | Soil |
| 2 | BP-SO-B08-10 | C9F160238-002 | Soil |
| 3 | BP-SO-B08-16 | C9F160238-003 | Soil |
| 3MS | BP-SO-B08-16MS | C9F160238-003MS | Soil |
| 3MSD | BP-SO-B08-16MSD | C9F160238-003MSD | Soil |
| 3DL | BP-SO-B08-16DL | C9F160238-003DL | Soil |
| 4 | BP-SO-B09-8 | C9F160238-004 | Soil |
| 5 | BP-SO-B09-14 | C9F160238-005 | Soil |
| 6 | BP-SO-B09-18 | C9F160238-006 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID# 3 exhibited high concentrations of naphthalene and was flagged (E) by the laboratory. The laboratory reanalyzed this sample at a 100X dilution. The reviewer replaced the original result with the dilution result. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-001 Work Order #....: LE2AJIAC Matrix.....: SOLID
 Date Sampled....: 06/15/09 09:00 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/17/09
 Prep Batch #....: 9168012 Analysis Time...: 11:32
 Dilution Factor: 500 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 9600 | 4400 | ug/kg | 660 |
| 2-Methylnaphthalene | 22000 | 4400 | ug/kg | 860 |
| Naphthalene | 550000 | 4400 | ug/kg | 630 |
| Acenaphthylene | 2700 J | 4400 | ug/kg | 870 |
| Acenaphthene | 14000 | 4400 | ug/kg | 700 |
| Fluorene | 6700 | 4400 | ug/kg | 660 |
| Phenanthrene | 8000 | 4400 | ug/kg | 520 |
| Anthracene | 1800 J | 22000 | ug/kg | 770 |
| Fluoranthene | 1900 J | 4400 | ug/kg | 370 |
| Pyrene | 1400 J | 4400 | ug/kg | 1200 |
| Benzo(a)anthracene | ND | 4400 | ug/kg | 700 |
| Chrysene | ND | 4400 | ug/kg | 760 |
| Benzo(b)fluoranthene | ND | 4400 | ug/kg | 880 |
| Benzo(k)fluoranthene | ND | 4400 | ug/kg | 910 |
| Benzo(a)pyrene | ND | 4400 | ug/kg | 1200 |
| Indeno(1,2,3-cd)pyrene | ND | 4400 | ug/kg | 240 |
| Dibenzo(a,h)anthracene | ND | 4400 | ug/kg | 960 |
| Benzo(ghi)perylene | ND | 4400 | ug/kg | 320 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

uw
 8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-002 Work Order #....: LE2A11AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 09:50 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/17/09
 Prep Batch #....: 9168012 Analysis Time...: 11:52
 Dilution Factor: 99.34 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 13 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2200 | 760 | ug/kg | 120 |
| 2-Methylnaphthalene | 5400 | 760 | ug/kg | 150 |
| Naphthalene | 90000 | 760 | ug/kg | 110 |
| Acenaphthylene | 1200 | 760 | ug/kg | 150 |
| Acenaphthene | 2700 | 760 | ug/kg | 120 |
| Fluorene | 1700 | 760 | ug/kg | 110 |
| Phenanthrene | 2300 | 760 | ug/kg | 91 |
| Anthracene | 520 J | 3800 | ug/kg | 130 |
| Fluoranthene | 750 J | 760 | ug/kg | 64 |
| Pyrene | 510 J | 760 | ug/kg | 200 |
| Benzo (a) anthracene | ND | 760 | ug/kg | 120 |
| Chrysene | ND | 760 | ug/kg | 130 |
| Benzo (b) fluoranthene | ND | 760 | ug/kg | 150 |
| Benzo (k) fluoranthene | ND | 760 | ug/kg | 160 |
| Benzo (a) pyrene | ND | 760 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | ND | 760 | ug/kg | 42 |
| Dibenzo (a,h) anthracene | ND | 760 | ug/kg | 170 |
| Benzo (ghi) perylene | ND | 760 | ug/kg | 56 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/11/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-003 Work Order #....: LE2A61AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 10:30 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/17/09
 Prep Batch #....: 9168012 Analysis Time...: 12:12
 Dilution Factor: 25 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 29 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|------------------------------|-----------------|-------|--------|
| 1-Methylnaphthalene | 2000 | 240 | ug/kg | 35 |
| 2-Methylnaphthalene | 5000 | 240 | ug/kg | 46 |
| Naphthalene | 74000 60000 E 940 | 240 | ug/kg | 34 140 |
| Acenaphthylene | 1500 | 240 | ug/kg | 47 |
| Acenaphthene | 1100 | 240 | ug/kg | 38 |
| Fluorene | 1400 | 240 | ug/kg | 35 |
| Phenanthrene | 1900 | 240 | ug/kg | 28 |
| Anthracene | 350 J | 1200 | ug/kg | 41 |
| Fluoranthene | 550 | 240 | ug/kg | 20 |
| Pyrene | 410 | 240 | ug/kg | 62 |
| Benzo(a)anthracene | 180 J | 240 | ug/kg | 37 |
| Chrysene | 150 J | 240 | ug/kg | 41 |
| Benzo(b)fluoranthene | 110 J | 240 | ug/kg | 47 |
| Benzo(k)fluoranthene | ND | 240 | ug/kg | 49 |
| Benzo(a)pyrene | 100 J | 240 | ug/kg | 66 |
| Indeno(1,2,3-cd)pyrene | ND | 240 | ug/kg | 13 |
| Dibenzo(a,h)anthracene | ND | 240 | ug/kg | 52 |
| Benzo(ghi)perylene | ND | 240 | ug/kg | 17 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

nw
8/11/09

3DL

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16^{DL}

GC/MS Semivolatiles

Use original

Lot-Sample #....: C9F160238-003 Work Order #....: LE2A62AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 10:30 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/18/09
 Prep Batch #....: 9168012 Analysis Time...: 12:53
 Dilution Factor: 100 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 29 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 2700 | 940 | ug/kg | 140 |
| 2-Methylnaphthalene | 6300 | 940 | ug/kg | 180 |
| Naphthalene | 74000 | 940 | ug/kg | 140 |
| Acenaphthylene | 1700 | 940 | ug/kg | 190 |
| Acenaphthene | 1300 | 940 | ug/kg | 150 |
| Fluorene | 1800 | 940 | ug/kg | 140 |
| Phenanthrene | 2400 | 940 | ug/kg | 110 |
| Anthracene | ND | 4600 | ug/kg | 160 |
| Fluoranthene | 660 J | 940 | ug/kg | 79 |
| Pyrene | 560 J | 940 | ug/kg | 250 |
| Benzo (a) anthracene | ND | 940 | ug/kg | 150 |
| Chrysene | ND | 940 | ug/kg | 160 |
| Benzo (b) fluoranthene | ND | 940 | ug/kg | 190 |
| Benzo (k) fluoranthene | ND | 940 | ug/kg | 200 |
| Benzo (a) pyrene | ND | 940 | ug/kg | 260 |
| Indeno (1,2,3-cd) pyrene | ND | 940 | ug/kg | 52 |
| Dibenzo (a,h) anthracene | ND | 940 | ug/kg | 210 |
| Benzo (ghi) perylene | ND | 940 | ug/kg | 69 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

NW
8/11/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-004 Work Order #....: LE2CM1AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 12:30 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/18/09
 Prep Batch #....: 9168012 Analysis Time...: 13:13
 Dilution Factor: 250 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 19 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 7600 | 2100 | ug/kg | 400 |
| 1-Methylnaphthalene | 3700 | 2100 | ug/kg | 310 |
| Naphthalene | 82000 | 2100 | ug/kg | 300 |
| Acenaphthylene | 1400 J | 2100 | ug/kg | 410 |
| Acenaphthene | 2000 J | 2100 | ug/kg | 330 |
| Fluorene | 6100 | 2100 | ug/kg | 310 |
| Phenanthrene | 2900 | 2100 | ug/kg | 250 |
| Anthracene | ND | 10000 | ug/kg | 360 |
| Fluoranthene | 1800 J | 2100 | ug/kg | 170 |
| Pyrene | 2300 | 2100 | ug/kg | 550 |
| Benzo (a) anthracene | ND | 2100 | ug/kg | 330 |
| Chrysene | ND | 2100 | ug/kg | 360 |
| Benzo (b) fluoranthene | 1100 J | 2100 | ug/kg | 420 |
| Benzo (k) fluoranthene | ND | 2100 | ug/kg | 430 |
| Benzo (a) pyrene | 870 J | 2100 | ug/kg | 580 |
| Indeno (1,2,3-cd) pyrene | 400 J | 2100 | ug/kg | 110 |
| Dibenzo (a,h) anthracene | ND | 2100 | ug/kg | 450 |
| Benzo (ghi) perylene | 860 J | 2100 | ug/kg | 150 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

new
8/11/09

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-005 Work Order #....: LE2CN1AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 13:30 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/17/09
 Prep Batch #....: 9168012 Analysis Time...: 13:32
 Dilution Factor: 500 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 18 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 5900 | 4100 | ug/kg | 620 |
| 2-Methylnaphthalene | 14000 | 4100 | ug/kg | 800 |
| Naphthalene | 110000 | 4100 | ug/kg | 590 |
| Acenaphthylene | 5400 | 4100 | ug/kg | 810 |
| Acenaphthene | 3100 J | 4100 | ug/kg | 660 |
| Fluorene | 18000 | 4100 | ug/kg | 620 |
| Phenanthrene | 94000 | 4100 | ug/kg | 490 |
| Anthracene | 27000 | 20000 | ug/kg | 720 |
| Fluoranthene | 89000 | 4100 | ug/kg | 350 |
| Pyrene | 52000 | 4100 | ug/kg | 1100 |
| Benzo (a) anthracene | 29000 | 4100 | ug/kg | 650 |
| Chrysene | 31000 | 4100 | ug/kg | 710 |
| Benzo (b) fluoranthene | 37000 | 4100 | ug/kg | 830 |
| Benzo (k) fluoranthene | ND | 4100 | ug/kg | 850 |
| Benzo (a) pyrene | 26000 | 4100 | ug/kg | 1100 |
| Indeno (1,2,3-cd) pyrene | 12000 | 4100 | ug/kg | 220 |
| Dibenzo (a,h) anthracene | ND | 4100 | ug/kg | 900 |
| Benzo (ghi) perylene | 14000 | 4100 | ug/kg | 300 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

 NW
 8/11/09

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Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Semivolatiles

Lot-Sample #....: C9F160238-006 Work Order #....: LE2CP1AC Matrix.....: SOLID
 Date Sampled....: 06/15/09 14:00 Date Received...: 06/16/09 10:00 MS Run #.....: 9168004
 Prep Date.....: 06/17/09 Analysis Date...: 06/18/09
 Prep Batch #....: 9168012 Analysis Time...: 13:33
 Dilution Factor: 250 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 33 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3000 | 2500 | ug/kg | 380 |
| 2-Methylnaphthalene | 7700 | 2500 | ug/kg | 490 |
| Naphthalene | 130000 | 2500 | ug/kg | 360 |
| Acenaphthylene | 1100 J | 2500 | ug/kg | 500 |
| Acenaphthene | 710 J | 2500 | ug/kg | 400 |
| Fluorene | ND | 2500 | ug/kg | 380 |
| Phenanthrene | 21000 | 2500 | ug/kg | 300 |
| Anthracene | 7800 J | 12000 | ug/kg | 440 |
| Fluoranthene | 26000 | 2500 | ug/kg | 210 |
| Pyrene | 20000 | 2500 | ug/kg | 670 |
| Benzo (a) anthracene | 11000 | 2500 | ug/kg | 400 |
| Chrysene | 11000 | 2500 | ug/kg | 440 |
| Benzo (b) fluoranthene | 13000 | 2500 | ug/kg | 510 |
| Benzo (k) fluoranthene | ND | 2500 | ug/kg | 520 |
| Benzo (a) pyrene | 8400 | 2500 | ug/kg | 700 |
| Indeno (1,2,3-cd) pyrene | 3600 | 2500 | ug/kg | 140 |
| Dibenzo (a,h) anthracene | 1100 J | 2500 | ug/kg | 550 |
| Benzo (ghi) perylene | 2800 | 2500 | ug/kg | 180 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

new
8/11/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F160238

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B08-6 | C9F160238-001 | Soil |
| 2 | BP-SO-B08-10 | C9F160238-002 | Soil |
| 3 | BP-SO-B08-16 | C9F160238-003 | Soil |
| 3MS | BP-SO-B08-16MS | C9F160238-003MS | Soil |
| 3MSD | BP-SO-B08-16MSD | C9F160238-003MSD | Soil |
| 4 | BP-SO-B09-8 | C9F160238-004 | Soil |
| 5 | BP-SO-B09-14 | C9F160238-005 | Soil |
| 6 | BP-SO-B09-18 | C9F160238-006 | Soil |
| 7 | TRIP BLANK | C9F160238-007 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-6 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 7 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/19/09 | Acrolein | 35.0%/0.014 RRF | None | Already qualified due to ICAL |
| 06/19/09 | Dichlorodifluoromethane | 49.5% | None | All ND |
| | Trichlorofluoromethane | 32.6% | None | All ND |
| | Acrylonitrile | 89.4% | J/UJ | 1, 3-4 |
| | Acrolein | 0.031 RRF | None | Already qualified due to ICAL |
| | 2-Chloroethyl vinyl ether | 80.2% | J/UJ | 1, 3-4 |
| 06/21/09 | Dichlorodifluoromethane | 48.0% | None | All ND |
| | Chloromethane | 39.9% | None | All ND |
| | Trichlorofluoromethane | 32.9% | None | All ND |
| | Acrylonitrile | 53.8% | J/UJ | 2, 5, 6 |
| | Acrolein | 46.9%/0.020 RRF | None | Already qualified due to ICAL |
| | 2-Chloroethyl vinyl ether | 31.6% | None | All ND |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Volatiles

Lot-Sample #....: C9F160238-001 Work Order #....: LE2AJ1AX Matrix.....: SOLID
 Date Sampled....: 06/15/09 Date Received...: 06/16/09 MS Run #.....: 9170195
 Prep Date.....: 06/19/09 Analysis Date...: 06/19/09
 Prep Batch #....: 9170344 Analysis Time...: 17:19
 Dilution Factor: 19.46 Initial Wgt/Vol: 5.14 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 24 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------------|--------------------|-------|-------|
| Acrolein | ND R | 130000 | ug/kg | 20000 |
| Acrylonitrile | ND UJ | 130000 | ug/kg | 10000 |
| Benzene | 130000 | 6400 | ug/kg | 1300 |
| Bromodichloromethane | ND | 6400 | ug/kg | 1200 |
| Bromoform | ND | 6400 | ug/kg | 1400 |
| Bromomethane | ND | 6400 | ug/kg | 2000 |
| 2-Butanone (MEK) | ND | 6400 | ug/kg | 1400 |
| Carbon tetrachloride | ND | 6400 | ug/kg | 1400 |
| Chloroethane | ND | 6400 | ug/kg | 950 |
| 2-Chloroethyl vinyl ether | ND UJ | 13000 | ug/kg | 1400 |
| Chloroform | ND | 6400 | ug/kg | 1300 |
| Chloromethane | ND | 6400 | ug/kg | 1200 |
| Dibromochloromethane | ND | 6400 | ug/kg | 830 |
| 1,2-Dichlorobenzene | ND | 6400 | ug/kg | 870 |
| 1,3-Dichlorobenzene | ND | 6400 | ug/kg | 640 |
| 1,4-Dichlorobenzene | ND | 6400 | ug/kg | 670 |
| trans-1,2-Dichloroethene | ND | 6400 | ug/kg | 960 |
| Dichlorodifluoromethane | ND | 6400 | ug/kg | 810 |
| 1,1-Dichloroethane | ND | 6400 | ug/kg | 1300 |
| 1,2-Dichloroethane | ND | 6400 | ug/kg | 1200 |
| 1,1-Dichloroethene | ND | 6400 | ug/kg | 1400 |
| 1,2-Dichloropropane | ND | 6400 | ug/kg | 1600 |
| cis-1,3-Dichloropropene | ND | 6400 | ug/kg | 930 |
| trans-1,3-Dichloropropene | ND | 6400 | ug/kg | 740 |
| Ethylbenzene | 36000 | 6400 | ug/kg | 790 |
| Methylene chloride | ND | 6400 | ug/kg | 1400 |
| 1,1,2,2-Tetrachloroethane | ND | 6400 | ug/kg | 1200 |
| Tetrachloroethene | ND | 6400 | ug/kg | 1100 |
| Toluene | 54000 | 6400 | ug/kg | 1100 |
| 1,1,1-Trichloroethane | ND | 6400 | ug/kg | 1300 |
| 1,1,2-Trichloroethane | ND | 6400 | ug/kg | 1500 |
| Trichloroethene | ND | 6400 | ug/kg | 1000 |
| Trichlorofluoromethane | ND | 6400 | ug/kg | 1400 |
| Vinyl chloride | ND | 6400 | ug/kg | 1600 |

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Maryland Environmental Service

Client Sample ID: BP-SO-B08-6

GC/MS Volatiles

Lot-Sample #...: C9F160238-001 Work Order #...: LE2AJ1AX Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 99 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 110 | (63 - 120) |
| Dibromofluoromethane | 91 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

hw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F160238-002 | Work Order #....: LE2A11AX | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 21:24 | |
| Dilution Factor: 4.97 | Initial Wgt/Vol: 5.03 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 13 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 29000 | ug/kg | 4500 |
| Acrylonitrile | ND UJ | 29000 | ug/kg | 2300 |
| Benzene | 15000 | 1400 | ug/kg | 280 |
| Bromodichloromethane | ND | 1400 | ug/kg | 270 |
| Bromoform | ND | 1400 | ug/kg | 300 |
| Bromomethane | ND | 1400 | ug/kg | 450 |
| 2-Butanone (MEK) | ND | 1400 | ug/kg | 310 |
| Carbon tetrachloride | ND | 1400 | ug/kg | 310 |
| Chloroethane | ND | 1400 | ug/kg | 210 |
| 2-Chloroethyl vinyl ether | ND | 2900 | ug/kg | 320 |
| Chloroform | ND | 1400 | ug/kg | 290 |
| Chloromethane | ND | 1400 | ug/kg | 260 |
| Dibromochloromethane | ND | 1400 | ug/kg | 180 |
| 1,2-Dichlorobenzene | ND | 1400 | ug/kg | 190 |
| 1,3-Dichlorobenzene | ND | 1400 | ug/kg | 140 |
| 1,4-Dichlorobenzene | ND | 1400 | ug/kg | 150 |
| trans-1,2-Dichloroethene | ND | 1400 | ug/kg | 210 |
| Dichlorodifluoromethane | ND | 1400 | ug/kg | 180 |
| 1,1-Dichloroethane | ND | 1400 | ug/kg | 290 |
| 1,2-Dichloroethane | ND | 1400 | ug/kg | 270 |
| 1,1-Dichloroethene | ND | 1400 | ug/kg | 300 |
| 1,2-Dichloropropane | ND | 1400 | ug/kg | 360 |
| cis-1,3-Dichloropropene | ND | 1400 | ug/kg | 210 |
| trans-1,3-Dichloropropene | ND | 1400 | ug/kg | 170 |
| Ethylbenzene | 530 J | 1400 | ug/kg | 180 |
| Methylene chloride | ND | 1400 | ug/kg | 310 |
| 1,1,2,2-Tetrachloroethane | ND | 1400 | ug/kg | 270 |
| Tetrachloroethene | ND | 1400 | ug/kg | 240 |
| Toluene | 6700 | 1400 | ug/kg | 240 |
| 1,1,1-Trichloroethane | ND | 1400 | ug/kg | 290 |
| 1,1,2-Trichloroethane | ND | 1400 | ug/kg | 330 |
| Trichloroethene | ND | 1400 | ug/kg | 230 |
| Trichlorofluoromethane | ND | 1400 | ug/kg | 320 |
| Vinyl chloride | ND | 1400 | ug/kg | 370 |

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nw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-10

GC/MS Volatiles

Lot-Sample #...: C9F160238-002 Work Order #...: LE2A11AX Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

NW
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Volatiles

Lot-Sample #....: C9F160238-003 Work Order #....: LE2A61AX Matrix.....: SOLID
 Date Sampled....: 06/15/09 Date Received...: 06/16/09 MS Run #.....: 9170195
 Prep Date.....: 06/19/09 Analysis Date...: 06/19/09
 Prep Batch #....: 9170344 Analysis Time...: 09:10
 Dilution Factor: 10 Initial Wgt/Vol: 5 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 29 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-------|
| Acrolein | ND R | 70000 | ug/kg | 11000 |
| Acrylonitrile | ND UJ | 70000 | ug/kg | 5700 |
| Benzene | 50000 | 3500 | ug/kg | 700 |
| Bromodichloromethane | ND | 3500 | ug/kg | 650 |
| Bromoform | ND | 3500 | ug/kg | 750 |
| Bromomethane | ND | 3500 | ug/kg | 1100 |
| 2-Butanone (MEK) | ND | 3500 | ug/kg | 760 |
| Carbon tetrachloride | ND | 3500 | ug/kg | 760 |
| Chloroethane | ND | 3500 | ug/kg | 530 |
| 2-Chloroethyl vinyl ether | ND UJ | 7000 | ug/kg | 780 |
| Chloroform | ND | 3500 | ug/kg | 710 |
| Chloromethane | ND | 3500 | ug/kg | 650 |
| Dibromochloromethane | ND | 3500 | ug/kg | 460 |
| 1,2-Dichlorobenzene | ND | 3500 | ug/kg | 480 |
| 1,3-Dichlorobenzene | ND | 3500 | ug/kg | 360 |
| 1,4-Dichlorobenzene | ND | 3500 | ug/kg | 370 |
| trans-1,2-Dichloroethene | ND | 3500 | ug/kg | 530 |
| Dichlorodifluoromethane | ND | 3500 | ug/kg | 450 |
| 1,1-Dichloroethane | ND | 3500 | ug/kg | 710 |
| 1,2-Dichloroethane | ND | 3500 | ug/kg | 670 |
| 1,1-Dichloroethene | ND | 3500 | ug/kg | 750 |
| 1,2-Dichloropropane | ND | 3500 | ug/kg | 900 |
| cis-1,3-Dichloropropene | ND | 3500 | ug/kg | 510 |
| trans-1,3-Dichloropropene | ND | 3500 | ug/kg | 410 |
| Ethylbenzene | 5600 | 3500 | ug/kg | 440 |
| Methylene chloride | ND | 3500 | ug/kg | 770 |
| 1,1,2,2-Tetrachloroethane | ND | 3500 | ug/kg | 660 |
| Tetrachloroethene | ND | 3500 | ug/kg | 580 |
| Toluene | 53000 | 3500 | ug/kg | 590 |
| 1,1,1-Trichloroethane | ND | 3500 | ug/kg | 720 |
| 1,1,2-Trichloroethane | ND | 3500 | ug/kg | 820 |
| Trichloroethene | ND | 3500 | ug/kg | 560 |
| Trichlorofluoromethane | ND | 3500 | ug/kg | 790 |
| Vinyl chloride | ND | 3500 | ug/kg | 910 |

(Continued on next page)

 NW
 8/11/09

3

Maryland Environmental Service

Client Sample ID: BP-SO-B08-16

GC/MS Volatiles

Lot-Sample #...: C9F160238-003 Work Order #...: LE2A61AX Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 103 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

NW
8/11/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F160238-004 | Work Order #....: LE2CM1AU | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: 9170195 |
| Prep Date.....: 06/19/09 | Analysis Date...: 06/19/09 | |
| Prep Batch #....: 9170344 | Analysis Time...: 17:43 | |
| Dilution Factor: 9.56 | Initial Wgt/Vol: 5.23 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 19 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|-----------------|-------|------|
| Acrolein | ND R | 59000 | ug/kg | 9300 |
| Acrylonitrile | ND UJ | 59000 | ug/kg | 4800 |
| Benzene | 56000 | 2900 | ug/kg | 580 |
| Bromodichloromethane | ND | 2900 | ug/kg | 550 |
| Bromoform | ND | 2900 | ug/kg | 630 |
| Bromomethane | ND | 2900 | ug/kg | 930 |
| 2-Butanone (MEK) | ND | 2900 | ug/kg | 640 |
| Carbon tetrachloride | ND | 2900 | ug/kg | 640 |
| Chloroethane | ND | 2900 | ug/kg | 440 |
| 2-Chloroethyl vinyl ether | ND UJ | 5900 | ug/kg | 650 |
| Chloroform | ND | 2900 | ug/kg | 590 |
| Chloromethane | ND | 2900 | ug/kg | 550 |
| Dibromochloromethane | ND | 2900 | ug/kg | 380 |
| 1,2-Dichlorobenzene | ND | 2900 | ug/kg | 400 |
| 1,3-Dichlorobenzene | ND | 2900 | ug/kg | 300 |
| 1,4-Dichlorobenzene | ND | 2900 | ug/kg | 310 |
| trans-1,2-Dichloroethene | ND | 2900 | ug/kg | 440 |
| Dichlorodifluoromethane | ND | 2900 | ug/kg | 370 |
| 1,1-Dichloroethane | ND | 2900 | ug/kg | 600 |
| 1,2-Dichloroethane | ND | 2900 | ug/kg | 560 |
| 1,1-Dichloroethene | ND | 2900 | ug/kg | 630 |
| 1,2-Dichloropropane | ND | 2900 | ug/kg | 750 |
| cis-1,3-Dichloropropene | ND | 2900 | ug/kg | 430 |
| trans-1,3-Dichloropropene | ND | 2900 | ug/kg | 340 |
| Ethylbenzene | 4100 | 2900 | ug/kg | 370 |
| Methylene chloride | ND | 2900 | ug/kg | 640 |
| 1,1,2,2-Tetrachloroethane | ND | 2900 | ug/kg | 550 |
| Tetrachloroethene | ND | 2900 | ug/kg | 490 |
| Toluene | 33000 | 2900 | ug/kg | 500 |
| 1,1,1-Trichloroethane | ND | 2900 | ug/kg | 610 |
| 1,1,2-Trichloroethane | ND | 2900 | ug/kg | 680 |
| Trichloroethene | ND | 2900 | ug/kg | 470 |
| Trichlorofluoromethane | ND | 2900 | ug/kg | 660 |
| Vinyl chloride | ND | 2900 | ug/kg | 760 |

(Continued on next page)

NC
8/11/09

4

Maryland Environmental Service

Client Sample ID: BP-SO-B09-8

GC/MS Volatiles

Lot-Sample #....: C9F160238-004 Work Order #....: LE2CM1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 109 | (63 - 120) |
| Dibromofluoromethane | 92 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

NW
8/11/09

5

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F160238-005 | Work Order #....: LE2CN1AU | Matrix.....: SOLID |
| Date Sampled....: 06/15/09 | Date Received...: 06/16/09 | MS Run #.....: |
| Prep Date.....: 06/21/09 | Analysis Date...: 06/21/09 | |
| Prep Batch #....: 9173046 | Analysis Time...: 18:38 | |
| Dilution Factor: 957.85 | Initial Wgt/Vol: 5.22 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 18 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------|--------------------|-------|--------|
| Acrolein | ND R | 5900000 | ug/kg | 930000 |
| Acrylonitrile | ND LJ | 5900000 | ug/kg | 480000 |
| Benzene | 6100000 | 290000 | ug/kg | 58000 |
| Bromodichloromethane | ND | 290000 | ug/kg | 55000 |
| Bromoform | ND | 290000 | ug/kg | 63000 |
| Bromomethane | ND | 290000 | ug/kg | 92000 |
| 2-Butanone (MEK) | ND | 290000 | ug/kg | 64000 |
| Carbon tetrachloride | ND | 290000 | ug/kg | 64000 |
| Chloroethane | ND | 290000 | ug/kg | 44000 |
| 2-Chloroethyl vinyl ether | ND | 590000 | ug/kg | 65000 |
| Chloroform | ND | 290000 | ug/kg | 59000 |
| Chloromethane | ND | 290000 | ug/kg | 54000 |
| Dibromochloromethane | ND | 290000 | ug/kg | 38000 |
| 1,2-Dichlorobenzene | ND | 290000 | ug/kg | 40000 |
| 1,3-Dichlorobenzene | ND | 290000 | ug/kg | 30000 |
| 1,4-Dichlorobenzene | ND | 290000 | ug/kg | 31000 |
| trans-1,2-Dichloroethene | ND | 290000 | ug/kg | 44000 |
| Dichlorodifluoromethane | ND | 290000 | ug/kg | 37000 |
| 1,1-Dichloroethane | ND | 290000 | ug/kg | 59000 |
| 1,2-Dichloroethane | ND | 290000 | ug/kg | 56000 |
| 1,1-Dichloroethene | ND | 290000 | ug/kg | 63000 |
| 1,2-Dichloropropane | ND | 290000 | ug/kg | 75000 |
| cis-1,3-Dichloropropene | ND | 290000 | ug/kg | 43000 |
| trans-1,3-Dichloropropene | ND | 290000 | ug/kg | 34000 |
| Ethylbenzene | 47000 J | 290000 | ug/kg | 36000 |
| Methylene chloride | ND | 290000 | ug/kg | 64000 |
| 1,1,2,2-Tetrachloroethane | ND | 290000 | ug/kg | 55000 |
| Tetrachloroethene | ND | 290000 | ug/kg | 48000 |
| Toluene | 2900000 | 290000 | ug/kg | 50000 |
| 1,1,1-Trichloroethane | ND | 290000 | ug/kg | 60000 |
| 1,1,2-Trichloroethane | ND | 290000 | ug/kg | 68000 |
| Trichloroethene | ND | 290000 | ug/kg | 47000 |
| Trichlorofluoromethane | ND | 290000 | ug/kg | 66000 |
| Vinyl chloride | ND | 290000 | ug/kg | 76000 |

(Continued on next page)

lw
8/11/09

5

Maryland Environmental Service

Client Sample ID: BP-SO-B09-14

GC/MS Volatiles

Lot-Sample #....: C9F160238-005 Work Order #....: LE2CN1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 102 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

MW
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Volatiles

Lot-Sample #....: C9F160238-006 Work Order #....: LE2CP1AU Matrix.....: SOLID
 Date Sampled....: 06/15/09 Date Received...: 06/16/09 MS Run #.....:
 Prep Date.....: 06/21/09 Analysis Date...: 06/21/09
 Prep Batch #....: 9173046 Analysis Time...: 19:01
 Dilution Factor: 1937.98 Initial Wgt/Vol: 5.16 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 33 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------|--------------------|-------|---------|
| Acrolein | ND R | 15000000 | ug/kg | 2300000 |
| Acrylonitrile | ND UJ | 15000000 | ug/kg | 1200000 |
| Benzene | 5600000 | 730000 | ug/kg | 140000 |
| Bromodichloromethane | ND | 730000 | ug/kg | 140000 |
| Bromoform | ND | 730000 | ug/kg | 160000 |
| Bromomethane | ND | 730000 | ug/kg | 230000 |
| 2-Butanone (MEK) | ND | 730000 | ug/kg | 160000 |
| Carbon tetrachloride | ND | 730000 | ug/kg | 160000 |
| Chloroethane | ND | 730000 | ug/kg | 110000 |
| 2-Chloroethyl vinyl ether | ND | 1500000 | ug/kg | 160000 |
| Chloroform | ND | 730000 | ug/kg | 150000 |
| Chloromethane | ND | 730000 | ug/kg | 140000 |
| Dibromochloromethane | ND | 730000 | ug/kg | 94000 |
| 1,2-Dichlorobenzene | ND | 730000 | ug/kg | 99000 |
| 1,3-Dichlorobenzene | ND | 730000 | ug/kg | 74000 |
| 1,4-Dichlorobenzene | ND | 730000 | ug/kg | 77000 |
| trans-1,2-Dichloroethene | ND | 730000 | ug/kg | 110000 |
| Dichlorodifluoromethane | ND | 730000 | ug/kg | 92000 |
| 1,1-Dichloroethane | ND | 730000 | ug/kg | 150000 |
| 1,2-Dichloroethane | ND | 730000 | ug/kg | 140000 |
| 1,1-Dichloroethene | ND | 730000 | ug/kg | 160000 |
| 1,2-Dichloropropane | ND | 730000 | ug/kg | 190000 |
| cis-1,3-Dichloropropene | ND | 730000 | ug/kg | 110000 |
| trans-1,3-Dichloropropene | ND | 730000 | ug/kg | 85000 |
| Ethylbenzene | 350000 J | 730000 | ug/kg | 90000 |
| Methylene chloride | ND | 730000 | ug/kg | 160000 |
| 1,1,2,2-Tetrachloroethane | ND | 730000 | ug/kg | 140000 |
| Tetrachloroethene | ND | 730000 | ug/kg | 120000 |
| Toluene | 3800000 | 730000 | ug/kg | 120000 |
| 1,1,1-Trichloroethane | ND | 730000 | ug/kg | 150000 |
| 1,1,2-Trichloroethane | ND | 730000 | ug/kg | 170000 |
| Trichloroethene | ND | 730000 | ug/kg | 120000 |
| Trichlorofluoromethane | ND | 730000 | ug/kg | 160000 |
| Vinyl chloride | ND | 730000 | ug/kg | 190000 |

(Continued on next page)

hw
8/11/09

Maryland Environmental Service

Client Sample ID: BP-SO-B09-18

GC/MS Volatiles

Lot-Sample #....: C9F160238-006 Work Order #....: LE2CP1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | (52 - 124) |
| Toluene-d8 | 108 | (72 - 127) |
| 4-Bromofluorobenzene | 107 | (63 - 120) |
| Dibromofluoromethane | 94 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

7

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F160238-007 Work Order #....: LE2CQ1AA Matrix.....: WATER
 Date Sampled....: 06/15/09 Date Received...: 06/16/09 MS Run #.....: 9170149
 Prep Date.....: 06/19/09 Analysis Date...: 06/19/09
 Prep Batch #....: 9170275 Analysis Time...: 09:59
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------|--------------------|-------|------|
| Acrolein | ND β | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

7

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F160238-007 Work Order #...: LE2CQ1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 86 | (62 - 123) |
| Toluene-d8 | 98 | (80 - 120) |
| 4-Bromofluorobenzene | 86 | (75 - 120) |
| Dibromofluoromethane | 90 | (80 - 120) |

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

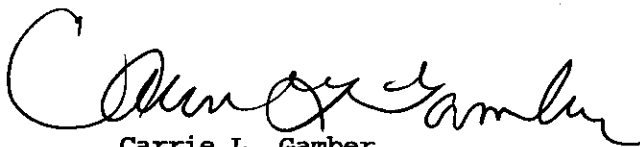
MES Sparrows Point 18001868

Lot #: C9F200206

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

July 6, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| US Dept of Agriculture | NA | NAVY | X |
| Arkansas | (#P330-07-00101) | Foreign Soil Import Permit | X |
| | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F200206

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 20, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the sample matrix, the sediment sample was analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

The method blank for batch 9183414 had 2-butanone detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had the same compound detected had the result flagged with a "B" qualifier.

The continuing calibration standard CC40702 had an internal standard slightly below the limits of the initial calibrations internal standard. There are no compounds reported from this internal standard.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the sample was analyzed at a dilution. The sample had the surrogates diluted out.

The matrix spikes were diluted out.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F200206

GC/MS Semivolatiles cont.:

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Metals:

The sediment sample was diluted for mercury due to concentration detected. The sample was diluted for 6020 metals analysis due to matrix interference.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, and chromium. The matrix spike recovered outside the control limit for selenium. The matrix spike duplicate recovered outside the control limit for zinc

The RPD was outside the control limit for arsenic, selenium and zinc.

For the matrix spike and matrix spike duplicate, lead, and mercury recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9F200206

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F200206

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|-------------------------|----------------------|
| LFC62 | 001 | BP-SO-B10-4 | 06/19/09 | 10:20 |
| LFC63 | 002 | TRIP BLANK | 06/19/09 | |

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Cooler Receipt Form

TestAmerica Pittsburgh

Client: HA Engineering Project: _____ Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 6-20-09

Coolers Opened and Unpacked on: 6-20-09 By: [Signature]

(Signature)

TestAmerica Pittsburgh Lot Number: C9F200206

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>Front</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? _____ | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> <u>UPS</u> CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

UP: Unpreserved

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

(1 - 61)

FedEx US Airbill
Express

8694 4003 0311

02001

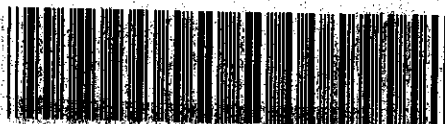
Form
10 No.

FedEx Retrieval Copy

1 **From**
Date 6/19/04 Sender's FedEx Account Number 0212-0722-5
Sender's Name Joseph Sawicki Phone 410 771-4950
Company EA Engineering
Address 15 Loveton Circle
City Sparks State MD ZIP 21152

2 **Your Internal Billing Reference** 1453406.0001.0004B

3 **To**
Recipient's Name Sample Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address RIOC Park
To request a package be held at a specific FedEx location, print FedEx address here.
City Pittsburgh State PA ZIP 15238



8694 4003 0311

4a Express Package Service

1 ☒ **FedEx Priority Overnight** Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
3 ☐ **FedEx 2Day** Second business day. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx Express rate not available. Minimum charge: One pound rate.
5 ☐ **FedEx Standard Overnight** Next business afternoon. Saturday Delivery NOT available.
6 ☐ **FedEx First Overnight** Earliest next business morning delivery to select locations. Saturday Delivery NOT available.
20 ☐ **FedEx Express Saver** Third business day. Saturday Delivery NOT available.
* To most locations.

4b Express Freight Service

7 ☐ **FedEx 1Day Freight** Next business day. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ **FedEx 2Day Freight** Second business day. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ **FedEx 3Day Freight** Third business day. Saturday Delivery NOT available.
* Call for Confirmation. ** To most locations.

5 Packaging

6 ☐ **FedEx Envelope** 2 ☐ **FedEx Pak** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ **FedEx Box** 4 ☐ **FedEx Tube** 1 ☒ **Other**
* Declared value limit \$500.

6 Special Handling

3 ☒ **SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight. Includes FedEx address in Section 3.
1 ☐ **HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.
31 ☐ **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods? One box must be checked.
4 ☐ **No** 4 ☐ **Yes** As per attached Shipper's Declaration. 6 ☐ **Dry Ice** Dry Ice 9, UN 1845 x kg. ☐ **Cargo Aircraft Only**
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to:

1 ☒ **Sender** Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. 2 ☐ **Recipient** 3 ☐ **Third Party** 4 ☐ **Credit Card** 5 ☐ **Cash/Check**

Total Packages

Total Weight

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

No Signature Required ☐ 10 ☐ **Direct Signature** Someone at Recipient's address may sign for delivery. Fee applies. 34 ☐ **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F200206-001 | Work Order #....: LFC621AW | Matrix.....: W |
| Date Sampled....: 06/19/09 | Date Received...: 06/20/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9183414 | Analysis Time...: 13:59 | |
| Dilution Factor: 0.82 | Initial Wgt/Vol: 6.11 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-------------|--------------------|--------------|-----------|
| Acrolein | ND | 5100 | ug/kg | 810 |
| Acrylonitrile | ND | 5100 | ug/kg | 410 |
| Benzene | 6100 | 250 | ug/kg | 50 |
| Bromodichloromethane | ND | 250 | ug/kg | 47 |
| Bromoform | ND | 250 | ug/kg | 54 |
| Bromomethane | ND | 250 | ug/kg | 80 |
| 2-Butanone (MEK) | ND | 250 | ug/kg | 55 |
| Carbon tetrachloride | ND | 250 | ug/kg | 55 |
| Chloroethane | ND | 250 | ug/kg | 38 |
| 2-Chloroethyl vinyl ether | ND | 510 | ug/kg | 56 |
| Chloroform | ND | 250 | ug/kg | 51 |
| Chloromethane | ND | 250 | ug/kg | 47 |
| Dibromochloromethane | ND | 250 | ug/kg | 33 |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | 35 |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | 26 |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | 27 |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | 38 |
| Dichlorodifluoromethane | ND | 250 | ug/kg | 32 |
| 1,1-Dichloroethane | ND | 250 | ug/kg | 52 |
| 1,2-Dichloroethane | ND | 250 | ug/kg | 49 |
| 1,1-Dichloroethene | ND | 250 | ug/kg | 54 |
| 1,2-Dichloropropane | ND | 250 | ug/kg | 65 |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | 37 |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | 30 |
| Ethylbenzene | 570 | 250 | ug/kg | 32 |
| Methylene chloride | ND | 250 | ug/kg | 56 |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | 48 |
| Tetrachloroethene | ND | 250 | ug/kg | 42 |
| Toluene | 1900 | 250 | ug/kg | 43 |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | 53 |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | 59 |
| Trichloroethene | ND | 250 | ug/kg | 41 |
| Trichlorofluoromethane | ND | 250 | ug/kg | 57 |
| Vinyl chloride | ND | 250 | ug/kg | 66 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Volatiles

Lot-Sample #...: C9F200206-001 Work Order #...: LFC621AW Matrix.....: W

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 94 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 88 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F200206-002 | Work Order #....: LFC631AA | Matrix.....: W |
| Date Sampled....: 06/19/09 | Date Received...: 06/20/09 | MS Run #.....: 9181026 |
| Prep Date.....: 06/30/09 | Analysis Date...: 06/30/09 | |
| Prep Batch #....: 9181045 | Analysis Time...: 10:21 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 010099 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|------------|-------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.8 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F200206-002 Work Order #...: LFC631AA Matrix.....: W

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 92 | (62 - 123) |
| Toluene-d8 | 102 | (80 - 120) |
| 4-Bromofluorobenzene | 101 | (75 - 120) |
| Dibromofluoromethane | 99 | (80 - 120) |

NOTE(S) :

J Estimated result. Result is less than RL.

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F200206

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B10-4 | 94 | 102 | 99 | 88 | 00 |
| 02 | METHOD BLK. LF2J61AA | 94 | 102 | 98 | 88 | 00 |
| 03 | LCS LF2J61AC | 96 | 105 | 102 | 94 | 00 |
| 04 | LCSD LF2J61AD | 96 | 108 | 104 | 95 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F200206

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | TRIP BLANK | 92 | 102 | 101 | 99 | 00 |
| 02 | INTRA-LAB QC | 91 | 99 | 96 | 96 | 00 |
| 03 | METHOD BLK. LFTOM1AA | 92 | 100 | 95 | 92 | 00 |
| 04 | LCS LFTOM1AC | 96 | 105 | 100 | 97 | 00 |
| 05 | LAB MS/MSD D | 97 | 107 | 103 | 96 | 00 |
| 06 | LAB MS/MSD S | 90 | 99 | 96 | 92 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F300000

WO #: LFT0M1AC

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.8 | 87 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.6 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.0 | 93 | 80 - 120 | |
| Toluene | 40.0 | 34.9 | 87 | 80 - 124 | |
| Chlorobenzene | 40.0 | 41.2 | 103 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G020000

WO #: LF2J61AC

BATCH: 9183414

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2020 | 101 | 59 - 129 | |
| Trichloroethene | 2000 | 1820 | 91 | 76 - 119 | |
| Benzene | 2000 | 2020 | 101 | 77 - 120 | |
| Toluene | 2000 | 2130 | 107 | 78 - 124 | |
| Chlorobenzene | 2000 | 1980 | 99 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G020000

WO #: LF2J61AD

BATCH: 9183414

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2050 | 103 | 59- 129 | |
| Trichloroethene | 2000 | 1880 | 94 | 76- 119 | |
| Benzene | 2000 | 2080 | 104 | 77- 120 | |
| Toluene | 2000 | 2220 | 111 | 78- 124 | |
| Chlorobenzene | 2000 | 2050 | 103 | 79- 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AE

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 400 | ND | 375 | 94 | 69 - 127 | |
| Trichloroethene | 400 | ND | 411 | 103 | 80 - 120 | |
| Benzene | 400 | 200 | 604 | 100 | 80 - 120 | |
| Toluene | 400 | 280 | 744 | 116 | 80 - 124 | |
| Chlorobenzene | 400 | ND | 440 | 110 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AF

BATCH: 9181045

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|--|------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD | REC | | |
| 1,1-Dichloroethene | 400 | 392 | 98 | 4.5 | 20 | 69 - 127 | | |
| Trichloroethene | 400 | 427 | 107 | 3.7 | 20 | 80 - 120 | | |
| Benzene | 400 | 578 | 94 | 4.2 | 20 | 80 - 120 | | |
| Toluene | 400 | 703 | 106 | 5.7 | 20 | 80 - 124 | | |
| Chlorobenzene | 400 | 462 | 115 | 4.8 | 20 | 83 - 120 | | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

LFT0M1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7063001a.

Lot Number: C9F200206

Date Analyzed: 06/30/09

Time Analyzed: 06:10

Matrix: WATER

Date Extracted: 06/30/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | TRIP BLANK | LFC631AA | 7063011.D | 06/30/09 | 10:21 |
| 02 | INTRA-LAB QC | LFC8N1AA | 7063003.D | 06/30/09 | 06:57 |
| 03 | LAB MS/MSD | LFC8N1AE S | 7063007.D | 06/30/09 | 08:33 |
| 04 | LAB MS/MSD | LFC8N1AF D | 7063008.D | 06/30/09 | 08:57 |
| 05 | CHECK SAMPLE | LFT0M1AC C | 7063006.D | 06/30/09 | 08:08 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F200206
MB Lot-Sample #: C9F300000-045

Work Order #...: LFT0M1AA

Matrix.....: WATER

Analysis Date...: 06/30/09
Dilution Factor: 1

Prep Date.....: 06/30/09
Prep Batch #...: 9181045
Initial Wgt/Vol: 5 mL
Analyst ID.....: 010099

Analysis Time...: 06:10
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 92 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 95 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F200206

Work Order #...: LFTOM1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 92 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LF2J61AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 40702004.

Lot Number: C9F200206

Date Analyzed: 07/02/09

Time Analyzed: 12:11

Matrix: SOLID

Date Extracted: 07/02/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-SO-B10-4 | LFC621AW | 40702007. | 07/02/09 | 13:59 |
| 02 | CHECK SAMPLE | LF2J61AC C | 40702005. | 07/02/09 | 12:50 |
| 03 | DUPLICATE CHECK | LF2J61AD L | 40702006. | 07/02/09 | 13:19 |
| 04 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F200206
MB Lot-Sample #: C9G020000-414

Work Order #...: LF2J61AA

Matrix.....: SOLID

Analysis Date...: 07/02/09
Dilution Factor: 1

Prep Date.....: 07/02/09
Prep Batch #...: 9183414
Initial Wgt/Vol: 5 g
Analyst ID.....: 001562

Analysis Time...: 12:11
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|----------|-----------|------------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | 200 J | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |
| SURROGATE | PERCENT | | RECOVERY | |
| | RECOVERY | | LIMITS | |
| 1,2-Dichloroethane-d4 | 94 | | (52 - 124) | |
| Toluene-d8 | 102 | | (72 - 127) | |
| 4-Bromofluorobenzene | 98 | | (63 - 120) | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F200206

Work Order #...: LF2J61AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 88 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F200206
 Lab File ID (Standard): CC70630 Date Analyzed: 06/30/09
 Instrument ID: HP7 Time Analyzed: 0457
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | | IS1 | | IS2 (CBZ) | | IS3 (DCB) | |
|----|--------------|---------|-------|-----------|-------|-----------|-------|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | 12 HOUR STD | 705422 | 7.50 | 152627 | 10.58 | 270389 | 12.90 |
| | UPPER LIMIT | 1410844 | 7.70 | 305254 | 10.78 | 540778 | 13.10 |
| | LOWER LIMIT | 352711 | 7.30 | 76314 | 10.38 | 135195 | 12.70 |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | EPA SAMPLE | | | | | | |
| | NO. | | | | | | |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB BL | 895050 | 7.51 | 214188 | 10.58 | 336253 | 12.91 |
| 02 | INTRA-LAB CH | 794130 | 7.51 | 196204 | 10.58 | 306813 | 12.91 |
| 03 | TRIP BLANK | 747956 | 7.51 | 163726 | 10.58 | 272606 | 12.91 |
| 04 | | | | | | | |
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| 22 | | | | | | | |

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: C9F200206
 Lab File ID (Standard): CC40702 Date Analyzed: 07/02/09
 Instrument ID: HP4 Time Analyzed: 0918
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 154637 | 10.76 | 280327 | 13.09 | 736668 | 7.68 |
| UPPER LIMIT | 309274 | 10.96 | 560654 | 13.29 | 1473336 | 7.88 |
| LOWER LIMIT | 77319 | 10.56 | 140164 | 12.89 | 368334 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 166390 | 10.76 | 287698 | 13.09 | 782383 | 7.68 |
| 02 INTRA-LAB CH | 167263 | 10.76 | 299252 | 13.09 | 782079 | 7.68 |
| 03 INTRA-LAB CH | 165900 | 10.76 | 295526 | 13.09 | 788033 | 7.68 |
| 04 BP-SO-B10-4 | 175033 | 10.76 | 311095 | 13.09 | 821224 | 7.68 |
| 05 | | | | | | |
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| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F200206-001 | Work Order #....: LFC621AC | Matrix.....: W |
| Date Sampled....: 06/19/09 10:20 | Date Received...: 06/20/09 09:05 | MS Run #.....: 9173003 |
| Prep Date.....: 06/22/09 | Analysis Date...: 06/22/09 | |
| Prep Batch #....: 9173011 | Analysis Time...: 16:37 | |
| Dilution Factor: 100 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 20 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1400 | 830 | ug/kg | 130 |
| 2-Methylnaphthalene | 2100 | 830 | ug/kg | 160 |
| Naphthalene | 25000 | 830 | ug/kg | 120 |
| Acenaphthylene | 3600 | 830 | ug/kg | 170 |
| Acenaphthene | 4300 | 830 | ug/kg | 130 |
| Fluorene | 3000 | 830 | ug/kg | 130 |
| Phenanthrene | 3500 | 830 | ug/kg | 99 |
| Anthracene | 1100 J | 4100 | ug/kg | 150 |
| Fluoranthene | 2900 | 830 | ug/kg | 70 |
| Pyrene | 2100 | 830 | ug/kg | 220 |
| Benzo (a) anthracene | 890 | 830 | ug/kg | 130 |
| Chrysene | 810 J | 830 | ug/kg | 140 |
| Benzo (b) fluoranthene | 640 J | 830 | ug/kg | 170 |
| Benzo (k) fluoranthene | ND | 830 | ug/kg | 170 |
| Benzo (a) pyrene | 650 J | 830 | ug/kg | 230 |
| Indeno (1,2,3-cd) pyrene | 360 J | 830 | ug/kg | 46 |
| Dibenzo (a,h) anthracene | ND | 830 | ug/kg | 180 |
| Benzo (ghi) perylene | 460 J | 830 | ug/kg | 61 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F200206

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| 01 | BP-SO-B10-4 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | METHOD BLK. LFDX31AA | 74 | 89 | 70 | 74 | 79 | 71 | 00 |
| 03 | LCS LFDX31AC | 82 | 83 | 80 | 82 | 83 | 90 | 00 |
| 04 | BP-SO-B10-4 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | BP-SO-B10-4 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F220000

WO #: LFDX31AC

BATCH: 9173011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 4-Methylphenol | 667 | 525 | 79 | 43 - 107 | |
| Hexachloroethane | 333 | 235 | 71 | 40 - 102 | |
| Naphthalene | 333 | 249 | 75 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 268 | 80 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 272 | 82 | 40 - 117 | |
| Phenol | 333 | 274 | 82 | 39 - 105 | |
| 2-Chlorophenol | 333 | 243 | 73 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 231 | 69 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 257 | 77 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 240 | 72 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 266 | 80 | 43 - 110 | |
| Acenaphthene | 333 | 266 | 80 | 42 - 104 | |
| 4-Nitrophenol | 333 | 327 | 98 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 294 | 88 | 48 - 118 | |
| Pentachlorophenol | 333 | 302 | 91 | 18 - 125 | |
| Pyrene | 333 | 252 | 76 | 39 - 113 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B10-4

Lot #: C9F200206

WO #: LFC621AU

BATCH: 9173011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 415 | ND | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 415 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 415 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 415 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 415 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 415 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 415 | 4300 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 415 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 415 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 415 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 415 | 2100 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 415 | ND | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 415 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 415 | 25000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 415 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 415 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B10-4

Lot #: C9F200206

WO #: LFC621AV

BATCH: 9173011

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|--------|
| | | | | | RPD | REC | |
| Phenol | 415 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 415 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 415 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 415 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 415 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 415 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 415 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 415 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 415 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 415 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 415 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 829 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 415 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 415 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 415 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 415 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LFDX31AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0622020.

Lot Number: C9F200206

Date Analyzed: 06/22/09

Time Analyzed: 07:36

Matrix: SOLID

Date Extracted:06/22/09

GC Column: RTX502.2 ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B10-4 | LFC621AC | N0622032. | 06/22/09 | 16:37 |
| 02 | BP-SO-B10-4 | LFC621AU S | N0622023. | 06/22/09 | 17:01 |
| 03 | BP-SO-B10-4 | LFC621AV D | N0622024. | 06/22/09 | 17:25 |
| 04 | CHECK SAMPLE | LFDX31AC C | N0622021. | 06/22/09 | 07:59 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9F200206
MB Lot-Sample #: C9F220000-011

Work Order #....: LFDX31AA

Matrix.....: SOLID

Analysis Date...: 06/22/09

Prep Date.....: 06/22/09

Analysis Time...: 07:36

Dilution Factor: 0.5

Prep Batch #....: 9173011

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 733

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING | | METHOD |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 74 | (27 - 110) |
| Terphenyl-d14 | 89 | (21 - 130) |
| 2-Fluorobiphenyl | 70 | (28 - 108) |
| 2-Fluorophenol | 74 | (28 - 107) |
| Phenol-d5 | 79 | (30 - 112) |
| 2,4,6-Tribromophenol | 71 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F200206

Lab File ID (Standard): N06220CC

Date Analyzed: 06/22/09

Instrument ID: 733

Time Analyzed: 0626

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 137402 | 4.47 | 536962 | 5.44 | 302424 | 6.79 |
| UPPER LIMIT | 274804 | 4.97 | 1073924 | 5.94 | 604848 | 7.29 |
| LOWER LIMIT | 68701 | 3.97 | 268481 | 4.94 | 151212 | 6.29 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 138383 | 4.47 | 568784 | 5.45 | 320666 | 6.79 |
| 02 INTRA-LAB CH | 115562 | 4.46 | 444425 | 5.44 | 252596 | 6.79 |
| 03 BP-SO-B10-4 | 145957 | 4.46 | 554591 | 5.43 | 304683 | 6.78 |
| 04 BP-SO-B10-4M | 133178 | 4.46 | 491061 | 5.43 | 282007 | 6.78 |
| 05 BP-SO-B10-4 | 152085 | 4.46 | 566996 | 5.43 | 319057 | 6.78 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F200206

Lab File ID (Standard): N06220CC

Date Analyzed: 06/22/09

Instrument ID: 733

Time Analyzed: 0626

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 475322 | 7.94 | 361079 | 9.98 | 273312 | 11.33 |
| UPPER LIMIT | 950644 | 8.44 | 722158 | 10.48 | 546624 | 11.83 |
| LOWER LIMIT | 237661 | 7.44 | 180540 | 9.48 | 136656 | 10.83 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 523117 | 7.94 | 355607 | 9.98 | 260716 | 11.32 |
| 02 INTRA-LAB CH | 394843 | 7.94 | 348784 | 9.98 | 271260 | 11.32 |
| 03 BP-SO-B10-4 | 493764 | 7.92 | 400989 | 9.97 | 342281 | 11.32 |
| 04 BP-SO-B10-4M | 464029 | 7.92 | 396465 | 9.97 | 338627 | 11.31 |
| 05 BP-SO-B10-4 | 514097 | 7.92 | 408444 | 9.97 | 346133 | 11.31 |
| 06 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

TOTAL Metals

Lot-Sample #....: C9F200206-001

Matrix.....: W

Date Sampled....: 06/19/09

Date Received...: 06/20/09

% Moisture.....: 20

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | | <u>METHOD</u> | <u>PREPARATION-</u> | <u>WORK</u> |
|----------------------------------|----------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| | | <u>LIMIT</u> | <u>UNITS</u> | | <u>ANALYSIS DATE</u> | <u>ORDER #</u> |
| Prep Batch #....: 9173111 | | | | | | |
| Mercury | 1.5 | 0.10 | mg/kg | SW846 7471A | 06/22/09 | LFC621AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:12 | Analyst ID.....: 400491 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9173083 | MDL.....: 0.034 | |
| Prep Batch #....: 9173216 | | | | | | |
| Silver | 0.058 B | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.012 | |
| Arsenic | 3.1 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.056 | |
| Beryllium | 0.82 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.023 | |
| Cadmium | 0.31 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.022 | |
| Chromium | 39.6 | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.019 | |
| Copper | 27.4 | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.10 | |
| Nickel | 11.0 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.035 | |
| Lead | 42.2 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

TOTAL Metals

Lot-Sample #...: C9F200206-001

Matrix.....: W

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Antimony | 0.065 B | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.0081 | |
| Selenium | 1.1 B | 1.6 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.16 | |
| Thallium | 0.079 B | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.0062 | |
| Zinc | 78.5 | 1.6 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.20 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F200206

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|--------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| MB Lot-Sample #: C9F220000-111 Prep Batch #....: 9173111 | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/22/09 | LFD471AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 13:52 | | Analyst ID.....: 400491 | | Instrument ID...: HGH |
| MB Lot-Sample #: C9F220000-216 Prep Batch #....: 9173216 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | ND | 0.10 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F200206

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFD8M1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 01:48 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F200206

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F220000-111 Prep Batch #....: 9173111 | | | | | |
| Mercury | 94 | (80 - 120) | SW846 7471A | 06/22/09 | LFD471AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 13:54 | Analyst ID.....: 400491 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F220000-216 Prep Batch #....: 9173216 | | | | | |
| Arsenic | 88 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AP |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 93 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AQ |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 92 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AR |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 99 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AT |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 100 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AU |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 99 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AV |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 107 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AW |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 90 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AX |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 97 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1AO |
| | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F200206

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|------------|-------------------------------|--------------|
| Thallium | 106 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1A1 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Zinc | 87 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1A2 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Silver | 98 | (80 - 120) | SW846 6020 | 06/22-06/25/09 | LFD8M1A3 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F220000-111 Prep Batch #...: 9173111 | | | | | | | |
| Mercury | 0.208 | 0.196 | mg/kg | 94 | SW846 7471A | 06/22/09 | LFD471AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 13:54 | Analyst ID.....: 400491 | |
| | | | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F220000-216 Prep Batch #...: 9173216 | | | | | | | |
| Arsenic | 2.00 | 1.75 | mg/kg | 88 | SW846 6020 | 06/22-06/25/09 | LFD8M1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.32 | mg/kg | 93 | SW846 6020 | 06/22-06/25/09 | LFD8M1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.30 | mg/kg | 92 | SW846 6020 | 06/22-06/25/09 | LFD8M1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 9.92 | mg/kg | 99 | SW846 6020 | 06/22-06/25/09 | LFD8M1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 12.5 | mg/kg | 100 | SW846 6020 | 06/22-06/25/09 | LFD8M1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 24.8 | mg/kg | 99 | SW846 6020 | 06/22-06/25/09 | LFD8M1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 1.07 | mg/kg | 107 | SW846 6020 | 06/22-06/25/09 | LFD8M1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 22.5 | mg/kg | 90 | SW846 6020 | 06/22-06/25/09 | LFD8M1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.484 | mg/kg | 97 | SW846 6020 | 06/22-06/25/09 | LFD8M1AO |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 01:52 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|-------------------|------------|-------------------------------|-----------------|
| Thallium | 2.50 | 2.64 | mg/kg | 106 | SW846 6020 | 06/22-06/25/09 | LFD8M1A1 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 25.0 | 21.7 | mg/kg | 87 | SW846 6020 | 06/22-06/25/09 | LFD8M1A2 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.46 | mg/kg | 98 | SW846 6020 | 06/22-06/25/09 | LFD8M1A3 |
| Dilution Factor: 0.5 Analysis Time...: 01:52 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: W

Date Sampled...: 06/19/09

Date Received...: 06/20/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------------|--------------------|---------------|-------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9F200206-001 Prep Batch #...: 9173111 | | | | | | |
| Mercury | NC | (75 - 125) | | SW846 7471A | 06/22/09 | LFC621AX |
| | NC | (75 - 125) | (0-20) | SW846 7471A | 06/22/09 | LFC621A0 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 14:13 Instrument ID...: HGHYDRA Analyst ID.....: 400491 | | | | | | |
| MS Run #.....: 9173083 | | | | | | |
| MS Lot-Sample #: C9F200206-001 Prep Batch #...: 9173216 | | | | | | |
| Antimony | 8.8 N | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621CG |
| | 8.1 N | (75 - 125) | 8.1 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CH |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |
| Arsenic | 75 | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621A1 |
| | 123 * | (75 - 125) | 22 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621A2 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |
| Beryllium | 106 | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621A3 |
| | 98 | (75 - 125) | 6.7 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621A4 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |
| Cadmium | 90 | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621A5 |
| | 82 | (75 - 125) | 7.6 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621A6 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |
| Chromium | 268 N | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621A7 |
| | 232 N | (75 - 125) | 6.2 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621A8 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |
| Copper | 118 | (75 - 125) | | SW846 6020 | 06/22-06/25/09 | LFC621A9 |
| | 101 | (75 - 125) | 5.9 (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CA |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9173130 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: W

Date Sampled...: 06/19/09

Date Received...: 06/20/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-----|------------|------------|----------------------------|--------------|
| Lead | NC | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CE |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CF |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |
| Nickel | 85 | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CC |
| | 86 | (75 - 125) | 1.1 | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CD |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |
| Selenium | 188 N | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CJ |
| | 91 * | (75 - 125) | 31 | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CK |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |
| Silver | 85 | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CQ |
| | 82 | (75 - 125) | 3.4 | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CR |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |
| Thallium | 83 | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CL |
| | 86 | (75 - 125) | 3.6 | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CM |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |
| Zinc | 109 | (75 - 125) | | | SW846 6020 | 06/22-06/25/09 | LFC621CN |
| | 41 N, * | (75 - 125) | 21 | (0-20) | SW846 6020 | 06/22-06/25/09 | LFC621CP |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: W

Date Sampled...: 06/19/09

Date Received...: 06/20/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9F200206-001 Prep Batch #...: 9173111

Mercury

| | | | | | | | | | |
|-----|-------|------|----|-------|--|--|-------------|----------|----------|
| 1.5 | 0.104 | 1.25 | NC | mg/kg | | | SW846 7471A | 06/22/09 | LFC621AX |
| 1.5 | 0.104 | 1.41 | NC | mg/kg | | | SW846 7471A | 06/22/09 | LFC621A0 |

Dilution Factor: 2.5

Analysis Time...: 14:13

Instrument ID...: HGHYDRA

Analyst ID.....: 400491

MS Run #.....: 9173083

MS Lot-Sample #: C9F200206-001 Prep Batch #...: 9173216

Antimony

| | | | | | | | | | |
|-------|------|------|---|-------|-----|-----|------------|----------------|----------|
| 0.065 | 31.1 | 2.79 | N | mg/kg | 8.8 | | SW846 6020 | 06/22-06/25/09 | LFC621CG |
| 0.065 | 31.1 | 2.57 | N | mg/kg | 8.1 | 8.1 | SW846 6020 | 06/22-06/25/09 | LFC621CH |

Dilution Factor: 2.5

Analysis Time...: 02:19

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9173130

Arsenic

| | | | | | | | | | |
|-----|------|------|---|-------|-----|----|------------|----------------|----------|
| 3.1 | 2.49 | 4.94 | | mg/kg | 75 | | SW846 6020 | 06/22-06/25/09 | LFC621A1 |
| 3.1 | 2.49 | 6.14 | * | mg/kg | 123 | 22 | SW846 6020 | 06/22-06/25/09 | LFC621A2 |

Dilution Factor: 2.5

Analysis Time...: 02:19

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9173130

Beryllium

| | | | | | | | | | |
|------|------|------|--|-------|-----|-----|------------|----------------|----------|
| 0.82 | 3.11 | 4.12 | | mg/kg | 106 | | SW846 6020 | 06/22-06/25/09 | LFC621A3 |
| 0.82 | 3.11 | 3.85 | | mg/kg | 98 | 6.7 | SW846 6020 | 06/22-06/25/09 | LFC621A4 |

Dilution Factor: 2.5

Analysis Time...: 02:19

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9173130

Cadmium

| | | | | | | | | | |
|------|------|------|--|-------|----|-----|------------|----------------|----------|
| 0.31 | 3.11 | 3.10 | | mg/kg | 90 | | SW846 6020 | 06/22-06/25/09 | LFC621A5 |
| 0.31 | 3.11 | 2.88 | | mg/kg | 82 | 7.6 | SW846 6020 | 06/22-06/25/09 | LFC621A6 |

Dilution Factor: 2.5

Analysis Time...: 02:19

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9173130

Chromium

| | | | | | | | | | |
|------|------|------|---|-------|-----|-----|------------|----------------|----------|
| 39.6 | 12.4 | 72.9 | N | mg/kg | 268 | | SW846 6020 | 06/22-06/25/09 | LFC621A7 |
| 39.6 | 12.4 | 68.5 | N | mg/kg | 232 | 6.2 | SW846 6020 | 06/22-06/25/09 | LFC621A8 |

Dilution Factor: 2.5

Analysis Time...: 02:19

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9173130

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F200206

Matrix.....: W

Date Sampled...: 06/19/09

Date Received...: 06/20/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------|-----------|---------------|----------|---------------|-----|------------|----------------------------|--------------|
| Copper | | | | | | | | | |
| | 27.4 | 15.5 | 45.7 | mg/kg | 118 | | SW846 6020 | 06/22-06/25/09 | LFC621A9 |
| | 27.4 | 15.5 | 43.1 | mg/kg | 101 | 5.9 | SW846 6020 | 06/22-06/25/09 | LFC621CA |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |
| Lead | | | | | | | | | |
| | 42.2 | 1.24 | 38.1 | NC mg/kg | | | SW846 6020 | 06/22-06/25/09 | LFC621CE |
| | 42.2 | 1.24 | 35.6 | NC mg/kg | | | SW846 6020 | 06/22-06/25/09 | LFC621CF |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |
| Nickel | | | | | | | | | |
| | 11.0 | 31.1 | 37.4 | mg/kg | 85 | | SW846 6020 | 06/22-06/25/09 | LFC621CC |
| | 11.0 | 31.1 | 37.8 | mg/kg | 86 | 1.1 | SW846 6020 | 06/22-06/25/09 | LFC621CD |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |
| Selenium | | | | | | | | | |
| | 1.1 | 0.622 | 2.23 | N mg/kg | 188 | | SW846 6020 | 06/22-06/25/09 | LFC621CJ |
| | 1.1 | 0.622 | 1.63 | * mg/kg | 91 | 31 | SW846 6020 | 06/22-06/25/09 | LFC621CK |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |
| Silver | | | | | | | | | |
| | 0.058 | 3.11 | 2.69 | mg/kg | 85 | | SW846 6020 | 06/22-06/25/09 | LFC621CQ |
| | 0.058 | 3.11 | 2.60 | mg/kg | 82 | 3.4 | SW846 6020 | 06/22-06/25/09 | LFC621CR |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |
| Thallium | | | | | | | | | |
| | 0.079 | 3.11 | 2.66 | mg/kg | 83 | | SW846 6020 | 06/22-06/25/09 | LFC621CL |
| | 0.079 | 3.11 | 2.75 | mg/kg | 86 | 3.6 | SW846 6020 | 06/22-06/25/09 | LFC621CM |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F200206

Matrix.....: W

Date Sampled....: 06/19/09

Date Received...: 06/20/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------------|-----------|---------------|-------|---------------|-----|------------|----------------------------|--------------|
| Zinc | 78.5 | 31.1 | 112 | mg/kg | 109 | | SW846 6020 | 06/22-06/25/09 | LFC621CN |
| | 78.5 | 31.1 | 91.3 | mg/kg | 41 | 21 | SW846 6020 | 06/22-06/25/09 | LFC621CP |
| Qualifiers: N, * | | | | | | | | | |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 02:19 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9173130 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F200206

Matrix: W

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B10-4 | C9F200206 001 | LFC621AT | 1.7 | mg/kg | 0.11 | 0.62 | 1 | 6/23/2009 - 6/24/2009 17:46 | 9174521 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F200206

Matrix: W

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B10-4 | C9F200206 001 | LFC621AA | 80.4 | % | 0.0 | 1.0 | 1 | 6/21/2009 - 6/22/2009 07:06 | 9172015 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F200206

Matrix: SOLID

Date/Time Received: 6/19/2009 9:20:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BLK - C9F230000521B | 521 MB | LFGWM1AA | ND | mg/kg | 0.50 | 6/23/2009 - 6/24/2009 17:25 | 9174521 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F200206

Matrix: SOLID

Date/Time Received: 6/19/2009 9:45:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LE9951C3 | 61.7 | % | 1.0 | 6/21/2009 - 6/22/2009 00:00 | 9172015 | 0.049 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F230000
 Date/Time Received: 6/19/2009 9:20:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|--------------|--------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LFGWM1AC | 81 | 38 - 162 | 6/23/2009 - 6/24/2009 17:25 | 9174521 | |
| LAB MS/MSD | MS | LEWRE1CH | 70 N | 75 - 125 | 6/23/2009 - 6/24/2009 17:40 | 9174521 | 13 / 20 |
| LAB MS/MSD | MS | LFAVN1CD | 80 | 75 - 125 | 6/23/2009 - 6/24/2009 17:40 | 9174521 | 11 / 20 |
| LAB MS/MSD | MSD | LEWRE1CJ | 80 | 75 - 125 | 6/23/2009 - 6/24/2009 17:40 | 9174521 | 13 / 20 |
| LAB MS/MSD | MSD | LFAVN1CE | 90 | 75 - 125 | 6/23/2009 - 6/24/2009 17:46 | 9174521 | 11 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F200206

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| I | BP-SO-B10-4 | C9F200206-001 | Soil |
| 1MS | BP-SO-B10-4MS | C9F200206-001MS | Soil |
| 1MSD | BP-SO-B10-4MSD | C9F200206-001MSD | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method:

SW846 9012A

Client Name: Maryland Environmental Service

Lot Number:

C9F200206

Matrix: W

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B10-4 | C9F200206 001 | LFC621AT | 1.7 | mg/kg | 0.11 | 0.62 | 1 | 6/23/2009 - 6/24/2009 17:46 | 9174521 |

MW
8/10/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F200206

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B10-4 | C9F200206-001 | Soil |
| 1MS | BP-SO-B10-4MS | C9F200206-001MS | Soil |
| 1MSD | BP-SO-B10-4MSD | C9F200206-001MSD | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 1 | Antimony | 8.8%/8.1%/Ok | L/R | 1 |
| | Arsenic | Ok/123%/Ok | K | 1 |
| | Chromium | 268%/232%/Ok | K | 1 |
| | Selenium | 188%/Ok/Ok | K | 1 |
| | Zinc | Ok/41%/Ok | L/UL | 1 |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

TOTAL Metals

Lot-Sample #....: C9F200206-001

Matrix.....: W

Date Sampled....: 06/19/09

Date Received...: 06/20/09

% Moisture.....: 20

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9173111 | | | | | | |
| Mercury | 1.5 | 0.10 | mg/kg | SW846 7471A | 06/22/09 | LFC621AR |
| | | Dilution Factor: 2.5 | | Analysis Time...: 14:12 | Analyst ID.....: 400491 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9173083 | MDL.....: 0.034 | |
| Prep Batch #....: 9173216 | | | | | | |
| Silver | 0.058 <i>P J</i> | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.012 | |
| Arsenic | 3.1 <i>K</i> | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.056 | |
| Beryllium | 0.82 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.023 | |
| Cadmium | 0.31 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.022 | |
| Chromium | 39.6 <i>K</i> | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.019 | |
| Copper | 27.4 | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.10 | |
| Nickel | 11.0 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.035 | |
| Lead | 42.2 | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

TOTAL Metals

Lot-Sample #....: C9F200206-001

Matrix.....: W

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.065 <i>B/L</i> | 0.62 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.0081 | |
| Selenium | 1.1 <i>B/K</i> | 1.6 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.16 | |
| Thallium | 0.079 <i>B/J</i> | 0.31 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.0062 | |
| Zinc | 78.5 <i>L</i> | 1.6 | mg/kg | SW846 6020 | 06/22-06/25/09 | LFC621AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 01:57 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9173130 | MDL.....: 0.20 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

*no
sholog*

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F200206

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B10-4 | C9F200206-001 | Soil |
| 1MS | BP-SO-B10-4MS | C9F200206-001MS | Soil |
| 1MSD | BP-SO-B10-4MSD | C9F200206-001MSD | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID #1 was analyzed at a 100X dilution due to high concentrations of target analytes. No qualifiers were required.

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Semivolatiles

Lot-Sample #....: C9F200206-001 Work Order #....: LFC621AC Matrix.....: W
 Date Sampled....: 06/19/09 10:20 Date Received...: 06/20/09 09:05 MS Run #.....: 9173003
 Prep Date.....: 06/22/09 Analysis Date...: 06/22/09
 Prep Batch #....: 9173011 Analysis Time...: 16:37
 Dilution Factor: 100 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 1400 | 830 | ug/kg | 130 |
| 2-Methylnaphthalene | 2100 | 830 | ug/kg | 160 |
| Naphthalene | 25000 | 830 | ug/kg | 120 |
| Acenaphthylene | 3600 | 830 | ug/kg | 170 |
| Acenaphthene | 4300 | 830 | ug/kg | 130 |
| Fluorene | 3000 | 830 | ug/kg | 130 |
| Phenanthrene | 3500 | 830 | ug/kg | 99 |
| Anthracene | 1100 J | 4100 | ug/kg | 150 |
| Fluoranthene | 2900 | 830 | ug/kg | 70 |
| Pyrene | 2100 | 830 | ug/kg | 220 |
| Benzo (a) anthracene | 890 | 830 | ug/kg | 130 |
| Chrysene | 810 J | 830 | ug/kg | 140 |
| Benzo (b) fluoranthene | 640 J | 830 | ug/kg | 170 |
| Benzo (k) fluoranthene | ND | 830 | ug/kg | 170 |
| Benzo (a) pyrene | 650 J | 830 | ug/kg | 230 |
| Indeno (1,2,3-cd) pyrene | 360 J | 830 | ug/kg | 46 |
| Dibenzo (a,h) anthracene | ND | 830 | ug/kg | 180 |
| Benzo (ghi) perylene | 460 J | 830 | ug/kg | 61 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

LW
 8/10/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F200206

Client: Maryland Environmental Service, Millersville, MD Date: August 11, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B10-4 | C9F200206-001 | Soil |
| 2 | TRIP BLANK | C9F200206-002 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1 |
| 06/21/09 | Acrolein | 0.022 RRF | L/R | 2 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/30/09 | Acrolein | 70.6%/0.037 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 30.3% | None | All ND |
| 07/02/09 | Trichlorofluoromethane | 45.2% | None | All ND |
| | 2-Chloroethyl vinyl ether | 25.9% | None | All ND |
| | Acrolein | 0.036 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|------------|----------------|-----------------------|-----------|------------------|
| LF2J61AA | 2-Butanone | 200 | 2000 | None | All ND |

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/kg | Qualifier | Affected Samples |
|------------|--------------------|---------------|-----------------------|-----------|------------------|
| TRIP BLANK | Methylene chloride | 1.8 | 18 | None | All ND |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F200206-001 | Work Order #....: LFC621AW | Matrix.....: W |
| Date Sampled....: 06/19/09 | Date Received...: 06/20/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9183414 | Analysis Time...: 13:59 | |
| Dilution Factor: 0.82 | Initial Wgt/Vol: 6.11 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 5100 | ug/kg | 810 |
| Acrylonitrile | ND | 5100 | ug/kg | 410 |
| Benzene | 6100 | 250 | ug/kg | 50 |
| Bromodichloromethane | ND | 250 | ug/kg | 47 |
| Bromoform | ND | 250 | ug/kg | 54 |
| Bromomethane | ND | 250 | ug/kg | 80 |
| 2-Butanone (MEK) | ND | 250 | ug/kg | 55 |
| Carbon tetrachloride | ND | 250 | ug/kg | 55 |
| Chloroethane | ND | 250 | ug/kg | 38 |
| 2-Chloroethyl vinyl ether | ND | 510 | ug/kg | 56 |
| Chloroform | ND | 250 | ug/kg | 51 |
| Chloromethane | ND | 250 | ug/kg | 47 |
| Dibromochloromethane | ND | 250 | ug/kg | 33 |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | 35 |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | 26 |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | 27 |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | 38 |
| Dichlorodifluoromethane | ND | 250 | ug/kg | 32 |
| 1,1-Dichloroethane | ND | 250 | ug/kg | 52 |
| 1,2-Dichloroethane | ND | 250 | ug/kg | 49 |
| 1,1-Dichloroethene | ND | 250 | ug/kg | 54 |
| 1,2-Dichloropropane | ND | 250 | ug/kg | 65 |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | 37 |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | 30 |
| Ethylbenzene | 570 | 250 | ug/kg | 32 |
| Methylene chloride | ND | 250 | ug/kg | 56 |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | 48 |
| Tetrachloroethene | ND | 250 | ug/kg | 42 |
| Toluene | 1900 | 250 | ug/kg | 43 |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | 53 |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | 59 |
| Trichloroethene | ND | 250 | ug/kg | 41 |
| Trichlorofluoromethane | ND | 250 | ug/kg | 57 |
| Vinyl chloride | ND | 250 | ug/kg | 66 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B10-4

GC/MS Volatiles

Lot-Sample #....: C9F200206-001 Work Order #....: LFC621AW Matrix.....: W

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 94 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 88 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F200206-002 | Work Order #...: LFC631AA | Matrix.....: W |
| Date Sampled...: 06/19/09 | Date Received...: 06/20/09 | MS Run #.....: 9181026 |
| Prep Date.....: 06/30/09 | Analysis Date...: 06/30/09 | |
| Prep Batch #...: 9181045 | Analysis Time...: 10:21 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 010099 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|-----------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.8 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

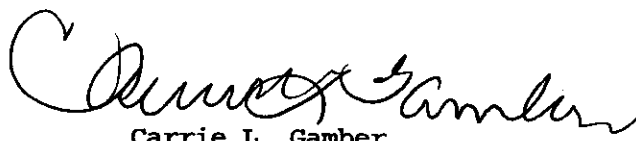
MES Sparrows Point 18001868

Lot #: C9F230278

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

July 6, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| US Dept of Agriculture | NA | NAVY | X |
| Arkansas | (#P330-07-00101) | Foreign Soil Import Permit | X |
| | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F230278

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 23, 2009.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the sample matrix, the sediment sample was analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

The method blank for batch 9183414 had 2-butanone detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had the same compound detected had the result flagged with a "B" qualifier.

The continuing calibration standard CC40702 had an internal standard slightly below the limits of the initial calibrations internal standard. There are no compounds reported from this internal standard.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the sample was analyzed undiluted and at a 5X dilution.

The matrix spikes had compounds recover outside the control limits.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F230278

GC/MS Semivolatiles cont.:

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Metals:

The sediment sample was diluted for 6020 metals analysis due to matrix interference.

The serial dilution percent difference was outside the control limit for nickel.

The method blank had chromium detected at a concentration between the MDL and the reporting limit. The result was flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, and mercury. The matrix spike recovered outside the control limit for lead.

The RPD was outside the control limit for mercury.

For the matrix spike and matrix spike duplicate, copper and selenium recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9F230278

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|--|----------------------|-----------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F230278

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LFGT7 | 001 | BP-SO-B11-4 | 06/22/09 | 13:30 |
| LFGVD | 002 | TRIP BLANK | 06/22/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

| | | | | | |
|--|--------------------|---|---------------------------------------|------------------------|--|
| Client E.A. Engineering | | Project Manager Karin Olsen | | Date 6/22/09 | Chain of Custody Number 113754 |
| Address 15 Loveton Circle | | Telephone Number (Area Code)/Fax Number 410-771-4950 / 410-771-4204 | | Lab Number | Page 1 of 1 |
| City Sparks | State MD | Zip Code 21152 | Site Contact Joseph Sawicki | Lab Contact | Analysis (Attach list if more space is needed) |
| Project Name and Location (State) Sparrows Point, MD | | | Carrier/Waybill Number | | |

| Contract/Purchase Order/Quote No. 1453406.0001.0004B | Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | Containers & Preservatives | | | | | | | | | | Special Instructions/ Conditions of Receipt | | | | |
|--|---|----------------|-------------|--------|----------|------|----------|----------------------------|-------|------|-----|------|---------------|----------|-----|----------|----------|--|----------|----------|--|--|
| | | | | Air | Aqueous | Sed. | Soil | Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | methanol | VOC | SUOC | Cyanide | | Metals | PAH | | |
| | BR50-1311-4 | 6/22/09 | 1330 | | | | X | X | | | | | | | | X | X | X | X | X | | |
| | Trip Blank | 6/22/09 | — | | X | | | | | | | | X | | | X | | | | | | |
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| | | |
|---|---|---|
| Possible Hazard Identification | Sample Disposal | (A fee may be assessed if samples are retained longer than 1 month) |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |

| | |
|---|---------------------------|
| Turn Around Time Required | QC Requirements (Specify) |
| <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____ | |

| | | | | | |
|---------------------------------------|------------------------|---------------------|--|------------------------|---------------------|
| 1. Relinquished By Joh Zink | Date 6/22/09 | Time 1600 | 1. Received By Fed Ex | Date 6/22/09 | Time 1600 |
| 2. Relinquished By | Date | Time | 2. Received By | Date | Time |
| 3. Relinquished By | Date | Time | 3. Received By Chuck R. Zant | Date 6/23/09 | Time 0935 |

Comments _____

Cooler Receipt Form

TestAmerica Pittsburgh

Client: E. A. Engineering Project: _____ Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 6/23/09

Coolers Opened and Unpacked on: 6/23/09 By: PLF

(Signature)

TestAmerica Pittsburgh Lot Number: C9F230278

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|---|
| 1. Were custody seals on the outside of the cooler? _____ | | <input checked="" type="checkbox"/> | |
| If YES, how many and where? Quantity _____ Location _____ | | | |
| Were signatures and date correct? _____ | | | <input checked="" type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | | |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | | |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | | |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | | |
| If YES, what type? <u>Bubble Wrap</u> | | | |
| 7. Were the samples received within the acceptable temperature range? | <input checked="" type="checkbox"/> | | |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | | |
| 9. Were all bottles sealed in separate plastic bags? _____ | | | <input checked="" type="checkbox"/> PLF 6/23/09 |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | | |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | | |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | | |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> PLF 6/23/09 |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

FedEx Retrieval Copy

1 From Date 6/22/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name Joseph T. Wick Phone 410 771-4950
Company EA Engineering
Address 15 Loveton Circle
City Sparks State MD ZIP 21152 Dept./Floor/Suite/Room

2 Your Internal Billing Reference 1453406.0001.0004B

3 To Recipient's Name Sample Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address RIOC Park
To request a package be held at a specific FedEx location, print FedEx address here.
City P. H.burgh State PA ZIP 15238 Dept./Floor/Suite/Room

| | | | |
|---|--|---|--|
| 1a Express Package Service | | Packages up to 150 lbs. | |
| <input type="checkbox"/> FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | <input checked="" type="checkbox"/> FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available. | <input type="checkbox"/> FedEx Next Business Morning Earliest next business morning delivery to select locations.* Saturday Delivery NOT available. | |
| <input type="checkbox"/> FedEx 2Day Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. <small>FedEx Envelope rate not available. Minimum charge: One-pound rate.</small> | <input type="checkbox"/> FedEx Express Saver Third business day. Saturday Delivery NOT available. | | |
| 4b Express Freight Service | | * To most locations. | |
| <input type="checkbox"/> FedEx 1Day Freight* Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | <input type="checkbox"/> FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. | Packages over 150 lbs. | |
| <input type="checkbox"/> | | <input type="checkbox"/> FedEx 3Day Freight Third business day.** Saturday Delivery NOT available. | |
| * Call for Confirmation: | | ** To most locations. | |
| 5 Packaging | | | |
| <input type="checkbox"/> FedEx Envelope* | <input type="checkbox"/> FedEx Pak* <small>Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sundry Pak.</small> | <input type="checkbox"/> FedEx Box | <input type="checkbox"/> FedEx Tube |
| | | <input checked="" type="checkbox"/> Other * Declared value limit \$500. | |
| 6 Special Handling | | | |
| <input type="checkbox"/> SATURDAY Delivery <small>Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.</small> | <input type="checkbox"/> HOLD Weekday at FedEx Location <small>Not available for FedEx First Overnight.</small> | <input type="checkbox"/> HOLD Saturday at FedEx Location <small>Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.</small> | |
| Does this shipment contain dangerous goods? One box must be checked. | | | |
| <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <small>As per attached Shipper's Declaration.</small> | <input type="checkbox"/> Yes <small>Shipper's Declaration not included for FedEx First Overnight.</small> | |
| Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. | | <input type="checkbox"/> Dry Ice <small>Dry Ice: 9, UN 1845</small> | <input type="checkbox"/> Cargo Aircraft Only |
| 7 Payment Bill to: | | | |
| <input checked="" type="checkbox"/> Sender <small>Acct. No. in Section 1 will be billed.</small> | <input type="checkbox"/> Recipient | <input type="checkbox"/> Third Party | <input type="checkbox"/> Credit Card |
| Total Packages | | Total Weight | Obtain Recip. Acct. No. |
| 1 | 40 | | <input type="checkbox"/> Cash/Check |
| 8 Residential Delivery Signature Options | | | |
| <input type="checkbox"/> No Signature Required <small>Package may be left without obtaining a signature for delivery.</small> | <input type="checkbox"/> Direct Signature <small>Someone at recipient address may sign for delivery. Fee applies.</small> | <input type="checkbox"/> Indirect Signature <small>If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.</small> | 520 |
| Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. | | | |
| Rec'd Card Auth. | | | |

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F230278-001 | Work Order #....: LFGT71AU | Matrix.....: SOLID |
| Date Sampled....: 06/22/09 | Date Received...: 06/23/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9183414 | Analysis Time...: 14:30 | |
| Dilution Factor: 0.85 | Initial Wgt/Vol: 5.86 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 17 | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-------------|--------------------|--------------|-----------|
| Acrolein | ND | 5100 | ug/kg | 820 |
| Acrylonitrile | ND | 5100 | ug/kg | 420 |
| Benzene | ND | 260 | ug/kg | 51 |
| Bromodichloromethane | ND | 260 | ug/kg | 48 |
| Bromoform | ND | 260 | ug/kg | 55 |
| Bromomethane | ND | 260 | ug/kg | 81 |
| 2-Butanone (MEK) | ND | 260 | ug/kg | 56 |
| Carbon tetrachloride | ND | 260 | ug/kg | 56 |
| Chloroethane | ND | 260 | ug/kg | 38 |
| 2-Chloroethyl vinyl ether | ND | 510 | ug/kg | 57 |
| Chloroform | ND | 260 | ug/kg | 52 |
| Chloromethane | ND | 260 | ug/kg | 48 |
| Dibromochloromethane | ND | 260 | ug/kg | 33 |
| 1,2-Dichlorobenzene | ND | 260 | ug/kg | 35 |
| 1,3-Dichlorobenzene | ND | 260 | ug/kg | 26 |
| 1,4-Dichlorobenzene | ND | 260 | ug/kg | 27 |
| trans-1,2-Dichloroethene | ND | 260 | ug/kg | 39 |
| Dichlorodifluoromethane | ND | 260 | ug/kg | 33 |
| 1,1-Dichloroethane | ND | 260 | ug/kg | 52 |
| 1,2-Dichloroethane | ND | 260 | ug/kg | 49 |
| 1,1-Dichloroethene | ND | 260 | ug/kg | 55 |
| 1,2-Dichloropropane | ND | 260 | ug/kg | 66 |
| cis-1,3-Dichloropropene | ND | 260 | ug/kg | 37 |
| trans-1,3-Dichloropropene | ND | 260 | ug/kg | 30 |
| Ethylbenzene | ND | 260 | ug/kg | 32 |
| Methylene chloride | ND | 260 | ug/kg | 56 |
| 1,1,2,2-Tetrachloroethane | ND | 260 | ug/kg | 48 |
| Tetrachloroethene | ND | 260 | ug/kg | 42 |
| Toluene | 75 J | 260 | ug/kg | 44 |
| 1,1,1-Trichloroethane | ND | 260 | ug/kg | 53 |
| 1,1,2-Trichloroethane | ND | 260 | ug/kg | 60 |
| Trichloroethene | ND | 260 | ug/kg | 41 |
| Trichlorofluoromethane | ND | 260 | ug/kg | 58 |
| Vinyl chloride | ND | 260 | ug/kg | 66 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Volatiles

Lot-Sample #...: C9F230278-001 Work Order #...: LFGT71AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 92 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F230278-002 | Work Order #...: LFGVD1AA | Matrix.....: WATER |
| Date Sampled...: 06/22/09 | Date Received...: 06/23/09 | MS Run #.....: 9181026 |
| Prep Date.....: 06/30/09 | Analysis Date...: 06/30/09 | |
| Prep Batch #...: 9181045 | Analysis Time...: 11:12 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 010099 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|------------|-------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.4 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F230278-002 Work Order #...: LFGVD1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 101 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

NOTE(S) :

J Estimated result. Result is less than RL.

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F230278

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B11-4 | 100 | 107 | 105 | 92 | 00 |
| 02 | METHOD BLK. LF2J61AA | 94 | 102 | 98 | 88 | 00 |
| 03 | LCS LF2J61AC | 96 | 105 | 102 | 94 | 00 |
| 04 | LCSD LF2J61AD | 96 | 108 | 104 | 95 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F230278

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 91 | 99 | 96 | 96 | 00 |
| 02 | TRIP BLANK | 93 | 100 | 101 | 101 | 00 |
| 03 | METHOD BLK. LFT0M1AA | 92 | 100 | 95 | 92 | 00 |
| 04 | LCS LFT0M1AC | 96 | 105 | 100 | 97 | 00 |
| 05 | LAB MS/MSD D | 97 | 107 | 103 | 96 | 00 |
| 06 | LAB MS/MSD S | 90 | 99 | 96 | 92 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F300000

WO #: LFTOMIAC

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.8 | 87 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.6 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.0 | 93 | 80 - 120 | |
| Toluene | 40.0 | 34.9 | 87 | 80 - 124 | |
| Chlorobenzene | 40.0 | 41.2 | 103 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G020000

WO #: LF2J61AC

BATCH: 9183414

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2020 | 101 | 59- 129 | |
| Trichloroethene | 2000 | 1820 | 91 | 76- 119 | |
| Benzene | 2000 | 2020 | 101 | 77- 120 | |
| Toluene | 2000 | 2130 | 107 | 78- 124 | |
| Chlorobenzene | 2000 | 1980 | 99 | 79- 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G020000

WO #: LF2J61AD

BATCH: 9183414

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2050 | 103 | 59 - 129 | |
| Trichloroethene | 2000 | 1880 | 94 | 76 - 119 | |
| Benzene | 2000 | 2080 | 104 | 77 - 120 | |
| Toluene | 2000 | 2220 | 111 | 78 - 124 | |
| Chlorobenzene | 2000 | 2050 | 103 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AE

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 400 | ND | 375 | 94 | 69 - 127 | |
| Trichloroethene | 400 | ND | 411 | 103 | 80 - 120 | |
| Benzene | 400 | 200 | 604 | 100 | 80 - 120 | |
| Toluene | 400 | 280 | 744 | 116 | 80 - 124 | |
| Chlorobenzene | 400 | ND | 440 | 110 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AF

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 400 | 392 | 98 | 4.5 | 20 | 69 - 127 | |
| Trichloroethene | 400 | 427 | 107 | 3.7 | 20 | 80 - 120 | |
| Benzene | 400 | 578 | 94 | 4.2 | 20 | 80 - 120 | |
| Toluene | 400 | 703 | 106 | 5.7 | 20 | 80 - 124 | |
| Chlorobenzene | 400 | 462 | 115 | 4.8 | 20 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

LFT0M1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7063001a.

Lot Number: C9F230278

Date Analyzed: 06/30/09

Time Analyzed: 06:10

Matrix: WATER

Date Extracted: 06/30/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | LFC8N1AA | 7063003.D | 06/30/09 | 06:57 |
| 02 | LAB MS/MSD | LFC8N1AE S | 7063007.D | 06/30/09 | 08:33 |
| 03 | LAB MS/MSD | LFC8N1AF D | 7063008.D | 06/30/09 | 08:57 |
| 04 | TRIP BLANK | LFGVD1AA | 7063013.D | 06/30/09 | 11:12 |
| 05 | CHECK SAMPLE | LFT0M1AC C | 7063006.D | 06/30/09 | 08:08 |
| 06 | | | | | |
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| 30 | | | | | |

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F230278
MB Lot-Sample #: C9F300000-045

Work Order #...: LFTOM1AA

Matrix.....: WATER

Analysis Date...: 06/30/09
Dilution Factor: 1

Prep Date.....: 06/30/09

Prep Batch #...: 9181045

Initial Wgt/Vol: 5 mL

Analyst ID.....: 010099

Analysis Time...: 06:10

Final Wgt/Vol...: 5 mL

Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 92 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 95 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F230278

Work Order #...: LFTOM1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 92 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LF2J61AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 40702004.

Lot Number: C9F230278

Date Analyzed: 07/02/09

Time Analyzed: 12:11

Matrix: SOLID

Date Extracted: 07/02/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-SO-B11-4 | LFGT71AU | 40702008. | 07/02/09 | 14:30 |
| 02 | CHECK SAMPLE | LF2J61AC C | 40702005. | 07/02/09 | 12:50 |
| 03 | DUPLICATE CHECK | LF2J61AD L | 40702006. | 07/02/09 | 13:19 |
| 04 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F230278
MB Lot-Sample #: C9G020000-414

Work Order #...: LF2J61AA

Matrix.....: SOLID

Analysis Date...: 07/02/09
Dilution Factor: 1

Prep Date.....: 07/02/09
Prep Batch #...: 9183414
Initial Wgt/Vol: 5 g
Analyst ID.....: 001562

Analysis Time...: 12:11
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | 200 J | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 94 | (52 - 124) |
| Toluene-d8 | 102 | (72 - 127) |
| 4-Bromofluorobenzene | 98 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F230278

Work Order #...: LF2J61AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------|--------------|---------------|
| Dibromofluoromethane | 88 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F230278
 Lab File ID (Standard): CC70630 Date Analyzed: 06/30/09
 Instrument ID: HP7 Time Analyzed: 0457
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | | IS1 | | IS2 (CBZ) | | IS3 (DCB) | |
|----|----------------|---------|-------|-----------|-------|-----------|-------|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | 12 HOUR STD | 705422 | 7.50 | 152627 | 10.58 | 270389 | 12.90 |
| | UPPER LIMIT | 1410844 | 7.70 | 305254 | 10.78 | 540778 | 13.10 |
| | LOWER LIMIT | 352711 | 7.30 | 76314 | 10.38 | 135195 | 12.70 |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | EPA SAMPLE NO. | | | | | | |
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB BL | 895050 | 7.51 | 214188 | 10.58 | 336253 | 12.91 |
| 02 | INTRA-LAB CH | 794130 | 7.51 | 196204 | 10.58 | 306813 | 12.91 |
| 03 | TRIP BLANK | 712382 | 7.51 | 156256 | 10.59 | 260678 | 12.91 |
| 04 | | | | | | | |
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| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: C9F230278
 Lab File ID (Standard): CC40702 Date Analyzed: 07/02/09
 Instrument ID: HP4 Time Analyzed: 0918
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 154637 | 10.76 | 280327 | 13.09 | 736668 | 7.68 |
| UPPER LIMIT | 309274 | 10.96 | 560654 | 13.29 | 1473336 | 7.88 |
| LOWER LIMIT | 77319 | 10.56 | 140164 | 12.89 | 368334 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 166390 | 10.76 | 287698 | 13.09 | 782383 | 7.68 |
| 02 INTRA-LAB CH | 167263 | 10.76 | 299252 | 13.09 | 782079 | 7.68 |
| 03 INTRA-LAB CH | 165900 | 10.76 | 295526 | 13.09 | 788033 | 7.68 |
| 04 BP-SO-B11-4 | 170665 | 10.76 | 304712 | 13.09 | 803611 | 7.68 |
| 05 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F230278-001 | Work Order #....: LFGT71AC | Matrix.....: SOLID |
| Date Sampled....: 06/22/09 13:30 | Date Received...: 06/23/09 09:55 | MS Run #.....: 9175002 |
| Prep Date.....: 06/24/09 | Analysis Date...: 06/24/09 | |
| Prep Batch #....: 9175010 | Analysis Time...: 12:52 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 17 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 200 | 8.1 | ug/kg | 1.2 |
| 2-Methylnaphthalene | 500 | 8.1 | ug/kg | 1.6 |
| Naphthalene | 1900 E | 8.1 | ug/kg | 1.2 |
| Acenaphthylene | 24 | 8.1 | ug/kg | 1.6 |
| Acenaphthene | 25 | 8.1 | ug/kg | 1.3 |
| Fluorene | 760 | 8.1 | ug/kg | 1.2 |
| Phenanthrene | 300 | 8.1 | ug/kg | 0.96 |
| Anthracene | 20 J | 40 | ug/kg | 1.4 |
| Fluoranthene | 84 | 8.1 | ug/kg | 0.68 |
| Pyrene | 85 | 8.1 | ug/kg | 2.1 |
| Benzo (a) anthracene | ND | 8.1 | ug/kg | 1.3 |
| Chrysene | 92 | 8.1 | ug/kg | 1.4 |
| Benzo (b) fluoranthene | 29 | 8.1 | ug/kg | 1.6 |
| Benzo (k) fluoranthene | ND | 8.1 | ug/kg | 1.7 |
| Benzo (a) pyrene | 11 | 8.1 | ug/kg | 2.3 |
| Indeno (1,2,3-cd) pyrene | 8.7 | 8.1 | ug/kg | 0.44 |
| Dibenzo (a,h) anthracene | 4.1 J | 8.1 | ug/kg | 1.8 |
| Benzo (ghi) perylene | 11 | 8.1 | ug/kg | 0.59 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 61 | (27 - 110) |
| Terphenyl-d14 | 59 | (21 - 130) |
| 2-Fluorobiphenyl | 50 | (28 - 108) |
| 2-Fluorophenol | 56 | (28 - 107) |
| Phenol-d5 | 64 | (30 - 112) |
| 2,4,6-Tribromophenol | 32 | (21 - 116) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4 *DL*

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9F230278-001 | Work Order #....: LFGT72AC | Matrix.....: SOLID |
| Date Sampled....: 06/22/09 13:30 | Date Received...: 06/23/09 09:55 | MS Run #.....: 9175002 |
| Prep Date.....: 06/24/09 | Analysis Date...: 06/24/09 | |
| Prep Batch #....: 9175010 | Analysis Time...: 17:26 | |
| Dilution Factor: 5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 17 | Analyst ID.....: 003200 | Instrument ID...: 731 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 240 | 41 | ug/kg | 6.1 |
| 2-Methylnaphthalene | 590 | 41 | ug/kg | 7.9 |
| Naphthalene | 2200 | 41 | ug/kg | 5.9 |
| Acenaphthylene | 31 J | 41 | ug/kg | 8.0 |
| Acenaphthene | ND | 41 | ug/kg | 6.5 |
| Fluorene | 1000 | 41 | ug/kg | 6.1 |
| Phenanthrene | 350 | 41 | ug/kg | 4.8 |
| Anthracene | 24 J | 200 | ug/kg | 7.1 |
| Fluoranthene | 92 | 41 | ug/kg | 3.4 |
| Pyrene | 96 | 41 | ug/kg | 11 |
| Benzo (a) anthracene | ND | 41 | ug/kg | 6.4 |
| Chrysene | 120 | 41 | ug/kg | 7.1 |
| Benzo (b) fluoranthene | 36 J | 41 | ug/kg | 8.2 |
| Benzo (k) fluoranthene | ND | 41 | ug/kg | 8.4 |
| Benzo (a) pyrene | 14 J | 41 | ug/kg | 11 |
| Indeno (1,2,3-cd) pyrene | ND | 41 | ug/kg | 2.2 |
| Dibenzo (a,h) anthracene | ND | 41 | ug/kg | 8.9 |
| Benzo (ghi) perylene | 12 J | 41 | ug/kg | 3.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 74 | (27 - 110) |
| Terphenyl-d14 | 69 | (21 - 130) |
| 2-Fluorobiphenyl | 67 | (28 - 108) |
| 2-Fluorophenol | 68 | (28 - 107) |
| Phenol-d5 | 64 | (30 - 112) |
| 2,4,6-Tribromophenol | 28 | (21 - 116) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F230278

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|---------------------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B11-4 | 61 | 59 | 50 | 56 | 64 | 32 | 00 |
| 02 | BP-SO-B11-4 RE-1 D ^L | 74 | 69 | 67 | 68 | 64 | 28 | 00 |
| 03 | METHOD BLK. LFHD11AA | 82 | 83 | 75 | 80 | 83 | 62 | 00 |
| 04 | LCS LFHD11AC | 82 | 72 | 75 | 82 | 78 | 66 | 00 |
| 05 | BP-SO-B11-4 D | 58 | 54 | 44 | 54 | 59 | 35 | 00 |
| 06 | BP-SO-B11-4 S | 58 | 55 | 44 | 54 | 57 | 35 | 00 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F240000

WO #: LFHD11AC

BATCH: 9175010

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 241 | 72 | 39 - 105 | |
| 2-Chlorophenol | 333 | 239 | 72 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 242 | 73 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 277 | 83 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 232 | 70 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 205 | 61 | 43 - 110 | |
| Acenaphthene | 333 | 244 | 73 | 42 - 104 | |
| 4-Nitrophenol | 333 | 239 | 72 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 306 | 92 | 48 - 118 | |
| Pentachlorophenol | 333 | 174 | 52 | 18 - 125 | |
| Pyrene | 333 | 216 | 65 | 39 - 113 | |
| 4-Methylphenol | 667 | 482 | 72 | 43 - 107 | |
| Hexachloroethane | 333 | 240 | 72 | 40 - 102 | |
| Naphthalene | 333 | 240 | 72 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 228 | 68 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 244 | 73 | 40 - 117 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B11-4

Level: (low/med) LOW

Lot #: C9F230278

WO #: LFGT71AV

BATCH: 9175010

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| Phenol | 404 | ND | 220 | 54 | 39 - 105 | |
| 2-Chlorophenol | 404 | ND | 204 | 51 | 40 - 105 | |
| 1,4-Dichlorobenzene | 404 | ND | 199 | 49 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 404 | ND | 247 | 61 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 404 | ND | 200 | 49 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 404 | ND | 220 | 54 | 43 - 110 | |
| Acenaphthene | 404 | 25 | 214 | 47 | 42 - 104 | |
| 4-Nitrophenol | 404 | ND | 106 | 26* | 27 - 131 | a |
| 2,4-Dinitrotoluene | 404 | ND | 223 | 55 | 48 - 118 | |
| Pentachlorophenol | 404 | ND | 71.7 | 18 | 18 - 125 | |
| Pyrene | 404 | 85 | 291 | 51 | 39 - 113 | |
| 4-Methylphenol | 807 | ND | 446 | 55 | 43 - 107 | |
| Hexachloroethane | 404 | ND | 223 | 55 | 40 - 102 | |
| Naphthalene | 404 | 1900 | 2590 | 176* | 42 - 104 | a |
| 4-Bromophenyl phenyl ethe | 404 | ND | 203 | 50 | 43 - 111 | |
| Butyl benzyl phthalate | 404 | ND | 241 | 60 | 40 - 117 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 2 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: BP-SO-B11-4

Level: (low/med) LOW

Lot #: C9F230278

WO #: LFGT71AW

BATCH: 9175010

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|------|
| Phenol | 404 | 236 | 58 | 7.2 | 40 | 39 - 105 | |
| 2-Chlorophenol | 404 | 205 | 51 | 0.57 | 37 | 40 - 105 | |
| 1,4-Dichlorobenzene | 404 | 198 | 49 | 0.42 | 32 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 404 | 231 | 57 | 6.8 | 32 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 404 | 200 | 49 | 0.030 | 36 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 404 | 218 | 54 | 0.75 | 31 | 43 - 110 | |
| Acenaphthene | 404 | 214 | 47 | 0.26 | 34 | 42 - 104 | |
| 4-Nitrophenol | 404 | 137 | 34 | 25 | 33 | 27 - 131 | |
| 2,4-Dinitrotoluene | 404 | 221 | 55 | 0.98 | 33 | 48 - 118 | |
| Pentachlorophenol | 404 | 58.4 | 14* | 20 | 34 | 18 - 125 | a |
| Pyrene | 404 | 294 | 52 | 1.1 | 28 | 39 - 113 | |
| 4-Methylphenol | 807 | 470 | 58 | 5.2 | 36 | 43 - 107 | |
| Hexachloroethane | 404 | 218 | 54 | 2.1 | 34 | 40 - 102 | |
| Naphthalene | 404 | 2600 | 178* | 0.31 | 25 | 42 - 104 | a |
| 4-Bromophenyl phenyl ethe | 404 | 211 | 52 | 3.7 | 20 | 43 - 111 | |
| Butyl benzyl phthalate | 404 | 236 | 59 | 2.0 | 34 | 40 - 117 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 2 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LFHD11AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0624016.

Lot Number: C9F230278

Date Analyzed: 06/24/09

Time Analyzed: 16:40

Matrix: SOLID

Date Extracted:06/24/09

GC Column: DB5

ID: .25

Extraction Method:

Instrument ID: 731

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-SO-B11-4 | LFGT71AC | N0624018. | 06/24/09 | 12:52 |
| 02 | BP-SO-B11-4 | LFGT71AV S | N0624019. | 06/24/09 | 17:49 |
| 03 | BP-SO-B11-4 | LFGT71AW D | N0624020. | 06/24/09 | 18:12 |
| 04 | BP-SO-B11-4 DL | LFGT72AC | N0624026. | 06/24/09 | 17:26 |
| 05 | CHECK SAMPLE | LFHD11AC C | N0624017. | 06/24/09 | 17:03 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9F230278
MB Lot-Sample #: C9F240000-010

Work Order #....: LFHD11AA

Matrix.....: SOLID

Analysis Date...: 06/24/09

Prep Date.....: 06/24/09

Analysis Time...: 16:40

Dilution Factor: 0.5

Prep Batch #....: 9175010

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 731

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|--------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 83 | (21 - 130) |
| 2-Fluorobiphenyl | 75 | (28 - 108) |
| 2-Fluorophenol | 80 | (28 - 107) |
| Phenol-d5 | 83 | (30 - 112) |
| 2,4,6-Tribromophenol | 62 | (21 - 116) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F230278

Lab File ID (Standard): N06240CC

Date Analyzed: 06/24/09

Instrument ID: 733

Time Analyzed: 1016

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 107333 | 4.43 | 450671 | 5.41 | 275741 | 6.76 |
| UPPER LIMIT | 214666 | 4.93 | 901342 | 5.91 | 551482 | 7.26 |
| LOWER LIMIT | 53667 | 3.93 | 225336 | 4.91 | 137871 | 6.26 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B11-4 | 109951 | 4.44 | 453952 | 5.41 | 323416 | 6.76 |
| 02 INTRA-LAB BL | 114106 | 4.44 | 455314 | 5.41 | 284171 | 6.76 |
| 03 INTRA-LAB CH | 109441 | 4.44 | 454319 | 5.41 | 289213 | 6.76 |
| 04 BP-SO-B11-4DL | 108585 | 4.43 | 434196 | 5.41 | 280710 | 6.76 |
| 05 BP-SO-B11-4* | 111146 | 4.43 | 443947 | 5.41 | 339509 | 6.75 |
| 06 BP-SO-B11-4M50 | 107981 | 4.44 | 436614 | 5.41 | 338229 | 6.76 |
| 07 | | | | | | |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F230278

Lab File ID (Standard): N06240CC

Date Analyzed: 06/24/09

Instrument ID: 733

Time Analyzed: 1016

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 483342 | 7.90 | 441936 | 9.93 | 353592 | 11.23 |
| UPPER LIMIT | 966684 | 8.40 | 883872 | 10.43 | 707184 | 11.73 |
| LOWER LIMIT | 241671 | 7.40 | 220968 | 9.43 | 176796 | 10.73 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 BP-SO-B11-4 | 481841 | 7.90 | 452860 | 9.93 | 377191 | 11.24 |
| 02 INTRA-LAB BL | 503742 | 7.90 | 452571 | 9.93 | 373981 | 11.24 |
| 03 INTRA-LAB CH | 538227 | 7.90 | 501336 | 9.93 | 389529 | 11.24 |
| 04 BP-SO-B11-4DL | 478435 | 7.90 | 421764 | 9.93 | 347883 | 11.24 |
| 05 BP-SO-B11-4 m6 | 490696 | 7.90 | 454190 | 9.93 | 374905 | 11.23 |
| 06 BP-SO-B11-4M50 | 486574 | 7.90 | 469742 | 9.93 | 404052 | 11.24 |
| 07 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

TOTAL Metals

Lot-Sample #...: C9F230278-001

Matrix.....: SOLID

Date Sampled...: 06/22/09

Date Received...: 06/23/09

% Moisture.....: 17

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9175016 | | | | | | |
| Mercury | ND | 0.020 | mg/kg | SW846 7471A | 06/25/09 | LFGT71AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9175008 | MDL.....: 0.0066 | |
| Prep Batch #...: 9175181 | | | | | | |
| Silver | ND | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.012 | |
| Arsenic | 1.6 | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.055 | |
| Beryllium | 2.7 | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.023 | |
| Cadmium | 0.18 B | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.021 | |
| Chromium | 5.1 J | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.018 | |
| Copper | 69.6 | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.10 | |
| Nickel | 3.4 E | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.034 | |
| Lead | 2.6 | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

TOTAL Metals

Lot-Sample #...: C9F230278-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.20 B | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.0079 | |
| Selenium | 5.8 | 1.5 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.15 | |
| Thallium | 0.070 B | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.0061 | |
| Zinc | 6.3 | 1.5 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.20 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F230278

Matrix.....: SOLID

| | | REPORTING | | | PREPARATION- | | WORK |
|--|---------|-------------------------|-------|-------------------------|-----------------------|----------|------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # | |
| MB Lot-Sample #: C9F240000-016 Prep Batch #....: 9175016 | | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/25/09 | LFHEA1AA | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 08:23 | | Analyst ID.....: 031043 | Instrument ID...: HGH | | |
| MB Lot-Sample #: C9F240000-181 Prep Batch #....: 9175181 | | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AJ | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AA | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AC | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AD | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Chromium | 0.040 B | 0.10 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AE | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AF | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AH | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AG | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AK | |
| | | Dilution Factor: 0.5 | | | | | |
| | | Analysis Time...: 20:51 | | Analyst ID.....: 400149 | Instrument ID...: ICP | | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F230278

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------------|--------|--------------------|-------|-------------------------|-------------------------------|-----------------|
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AN |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:51 | | | | | | |
| | | | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AL |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:51 | | | | | | |
| | | | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFHN61AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:51 | | | | | | |
| | | | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F230278

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F240000-016 Prep Batch #....: 9175016 | | | | | |
| Mercury | 98 | (80 - 120) | SW846 7471A | 06/25/09 | LFHEALAC |
| | | Dilution Factor: 0.5 | Analysis Time...: 08:25 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F240000-181 Prep Batch #....: 9175181 | | | | | |
| Arsenic | 95 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AP |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 94 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AQ |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 96 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AR |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 103 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AT |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 105 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AU |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 104 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AV |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 112 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AW |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 94 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AX |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 90 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61AO |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F230278

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|-------------------------|------------------------|-------------------------------|--------------|
| Thallium | 108 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61A1 |
| | | Dilution Factor: 0.5 | Analysis Time..: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |
| Zinc | 97 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61A2 |
| | | Dilution Factor: 0.5 | Analysis Time..: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |
| Silver | 102 | (80 - 120) | SW846 6020 | 06/24-06/26/09 | LFHN61A3 |
| | | Dilution Factor: 0.5 | Analysis Time..: 20:55 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F230278

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F240000-016 Prep Batch #... : 9175016 | | | | | | | |
| Mercury | 0.208 | 0.203 | mg/kg | 98 | SW846 7471A | 06/25/09 | LFHEA1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 08:25 | Analyst ID.....: 031043 | |
| | | | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F240000-181 Prep Batch #... : 9175181 | | | | | | | |
| Arsenic | 2.00 | 1.90 | mg/kg | 95 | SW846 6020 | 06/24-06/26/09 | LFHN61AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.34 | mg/kg | 94 | SW846 6020 | 06/24-06/26/09 | LFHN61AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.41 | mg/kg | 96 | SW846 6020 | 06/24-06/26/09 | LFHN61AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.3 | mg/kg | 103 | SW846 6020 | 06/24-06/26/09 | LFHN61AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 13.2 | mg/kg | 105 | SW846 6020 | 06/24-06/26/09 | LFHN61AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 26.1 | mg/kg | 104 | SW846 6020 | 06/24-06/26/09 | LFHN61AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 1.12 | mg/kg | 112 | SW846 6020 | 06/24-06/26/09 | LFHN61AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.5 | mg/kg | 94 | SW846 6020 | 06/24-06/26/09 | LFHN61AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.450 | mg/kg | 90 | SW846 6020 | 06/24-06/26/09 | LFHN61AO |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F230278

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|------------|-------------------------------|-----------------|
| Thallium | 2.50 | 2.71 | mg/kg | 108 | SW846 6020 | 06/24-06/26/09 | LFHN61A1 |
| Dilution Factor: 0.5 Analysis Time...: 20:55 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 25.0 | 24.2 | mg/kg | 97 | SW846 6020 | 06/24-06/26/09 | LFHN61A2 |
| Dilution Factor: 0.5 Analysis Time...: 20:55 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.56 | mg/kg | 102 | SW846 6020 | 06/24-06/26/09 | LFHN61A3 |
| Dilution Factor: 0.5 Analysis Time...: 20:55 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F230278

Matrix.....: SOLID

Date Sampled...: 06/22/09

Date Received...: 06/23/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|
|-----------|---------------------|--------------------|---------------|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F230278-001 Prep Batch #...: 9175016

% Moisture.....: 17

| | | | | | | |
|---|--------|------------|-----------|-------------|----------|----------|
| Mercury | 9.2 N | (75 - 125) | | SW846 7471A | 06/25/09 | LFGT71AX |
| | 20 N,* | (75 - 125) | 74 (0-20) | SW846 7471A | 06/25/09 | LFGT71A0 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 08:29 Instrument ID...: HGHYDRA Analyst ID.....: 031043 | | | | | | |
| MS Run #.....: 9175008 | | | | | | |

MS Lot-Sample #: C9F230278-001 Prep Batch #...: 9175181

% Moisture.....: 17

| | | | | | | |
|--|------|------------|------------|------------|----------------|----------|
| Antimony | 34 N | (75 - 125) | | SW846 6020 | 06/24-06/26/09 | LFGT71CG |
| | 31 N | (75 - 125) | 7.2 (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CH |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9175083 | | | | | | |

| | | | | | | |
|--|-----|------------|------------|------------|----------------|----------|
| Arsenic | 118 | (75 - 125) | | SW846 6020 | 06/24-06/26/09 | LFGT71A1 |
| | 125 | (75 - 125) | 4.2 (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71A2 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9175083 | | | | | | |

| | | | | | | |
|--|----|------------|-----------|------------|----------------|----------|
| Beryllium | 77 | (75 - 125) | | SW846 6020 | 06/24-06/26/09 | LFGT71A3 |
| | 95 | (75 - 125) | 10 (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71A4 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9175083 | | | | | | |

| | | | | | | |
|--|-----|------------|------------|------------|----------------|----------|
| Cadmium | 94 | (75 - 125) | | SW846 6020 | 06/24-06/26/09 | LFGT71A5 |
| | 102 | (75 - 125) | 7.5 (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71A6 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9175083 | | | | | | |

| | | | | | | |
|--|----|------------|------------|------------|----------------|----------|
| Chromium | 86 | (75 - 125) | | SW846 6020 | 06/24-06/26/09 | LFGT71A7 |
| | 93 | (75 - 125) | 5.7 (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71A8 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9175083 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F230278

Matrix.....: SOLID

Date Sampled...: 06/22/09

Date Received...: 06/23/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|------|------------|------------|----------------------------|--------------|
| Copper | NC | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71A9 |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CA |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Lead | 0.0 N | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CE |
| | 77 | (75 - 125) | 0.0 | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CF |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Nickel | 91 | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CC |
| | 93 | (75 - 125) | 1.2 | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CD |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Selenium | NC | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CJ |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CK |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Silver | 98 | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CQ |
| | 97 | (75 - 125) | 0.38 | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CR |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Thallium | 106 | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CL |
| | 105 | (75 - 125) | 0.46 | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CM |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |
| Zinc | 77 | (75 - 125) | | | SW846 6020 | 06/24-06/26/09 | LFGT71CN |
| | 87 | (75 - 125) | 9.5 | (0-20) | SW846 6020 | 06/24-06/26/09 | LFGT71CP |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:08 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9175083 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F230278

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B11-4 | C9F230278-001 | Soil |
| 1MS | BP-SO-B11-4MS | C9F230278-001MS | Soil |
| 1MSD | BP-SO-B11-4MSD | C9F230278-001MSD | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F230278

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-SO-B11-4 | C9F230278 001 | LFGT71AT | 3.3 | mg/kg | 0.10 | 0.61 | 1 | 6/25/2009 - 6/25/2009 14:44 | 9176186 |

uw
8/10/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F230278

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B11-4 | C9F230278-001 | Soil |
| 1MS | BP-SO-B11-4MS | C9F230278-001MS | Soil |
| 1MSD | BP-SO-B11-4MSD | C9F230278-001MSD | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 1 | Mercury | 9.2%/20%/74 | L/R | 1 |
| | Antimony | 34%/31%/Ok | L/UL | 1 |
| | Lead | 0%/Ok/Ok | L/R | 1 |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 1 | Nickel | 11.3% | J | All Samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

TOTAL Metals

Lot-Sample #...: C9F230278-001

Matrix.....: SOLID

Date Sampled...: 06/22/09

Date Received...: 06/23/09

% Moisture.....: 17

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9175016 | | | | | | |
| Mercury | ND R | 0.020 | mg/kg | SW846 7471A | 06/25/09 | LFGT71AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:27 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9175008 | MDL.....: 0.0066 | |
| Prep Batch #...: 9175181 | | | | | | |
| Silver | ND | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.012 | |
| Arsenic | 1.6 | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.055 | |
| Beryllium | 2.7 | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.023 | |
| Cadmium | 0.18 PJ | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.021 | |
| Chromium | 5.1 J | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.018 | |
| Copper | 69.6 | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.10 | |
| Nickel | 3.4 PJ | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.034 | |
| Lead | 2.6 L | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

TOTAL Metals

Lot-Sample #...: C9F230278-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.20 <i>B L</i> | 0.61 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.0079 | |
| Selenium | 5.8 | 1.5 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.15 | |
| Thallium | 0.070 <i>B J</i> | 0.30 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.0061 | |
| Zinc | 6.3 | 1.5 | mg/kg | SW846 6020 | 06/24-06/26/09 | LFGT71AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9175083 | MDL.....: 0.20 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

NW
8/10/09

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F230278

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B11-4 | C9F230278-001 | Soil |
| 1MS | BP-SO-B11-4MS | C9F230278-001MS | Soil |
| 1MSD | BP-SO-B11-4MSD | C9F230278-001MSD | Soil |
| 1DL | BP-SO-B11-4DL | C9F230278-001DL | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier |
|------------------|-------------|---------------|--------------------------|
| 1 | Naphthalene | 176%/178%/Ok | None - Dilution reported |

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID# 1 exhibited high concentrations of target compounds which were flagged (E) by the laboratory. The laboratory reanalyzed this sample at a 5X dilution. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Semivolatiles

Lot-Sample #....: C9F230278-001 Work Order #....: LFGT71AC Matrix.....: SOLID
 Date Sampled....: 06/22/09 13:30 Date Received...: 06/23/09 09:55 MS Run #.....: 9175002
 Prep Date.....: 06/24/09 Analysis Date...: 06/24/09
 Prep Batch #....: 9175010 Analysis Time...: 12:52
 Dilution Factor: 1 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 17 Analyst ID.....: 003200 Instrument ID...: 731
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|------------------------|-------------------|-------|---------|
| 1-Methylnaphthalene | 200 | 8.1 | ug/kg | 1.2 |
| 2-Methylnaphthalene | 500 | 8.1 | ug/kg | 1.6 |
| Naphthalene | 2200 1900 E | 41 8.1 | ug/kg | 1.2 5.9 |
| Acenaphthylene | 24 | 8.1 | ug/kg | 1.6 |
| Acenaphthene | 25 | 8.1 | ug/kg | 1.3 |
| Fluorene | 760 | 8.1 | ug/kg | 1.2 |
| Phenanthrene | 300 | 8.1 | ug/kg | 0.96 |
| Anthracene | 20 J | 40 | ug/kg | 1.4 |
| Fluoranthene | 84 | 8.1 | ug/kg | 0.68 |
| Pyrene | 85 | 8.1 | ug/kg | 2.1 |
| Benzo(a)anthracene | ND | 8.1 | ug/kg | 1.3 |
| Chrysene | 92 | 8.1 | ug/kg | 1.4 |
| Benzo(b)fluoranthene | 29 | 8.1 | ug/kg | 1.6 |
| Benzo(k)fluoranthene | ND | 8.1 | ug/kg | 1.7 |
| Benzo(a)pyrene | 11 | 8.1 | ug/kg | 2.3 |
| Indeno(1,2,3-cd)pyrene | 8.7 | 8.1 | ug/kg | 0.44 |
| Dibenzo(a,h)anthracene | 4.1 J | 8.1 | ug/kg | 1.8 |
| Benzo(ghi)perylene | 11 | 8.1 | ug/kg | 0.59 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | 61 | (27 - 110) |
| Terphenyl-d14 | 59 | (21 - 130) |
| 2-Fluorobiphenyl | 50 | (28 - 108) |
| 2-Fluorophenol | 56 | (28 - 107) |
| Phenol-d5 | 64 | (30 - 112) |
| 2,4,6-Tribromophenol | 32 | (21 - 116) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

hw
8/10/09

1DL

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4 PL

Use original

GC/MS Semivolatiles

Lot-Sample #....: C9F230278-001 Work Order #....: LFGT72AC Matrix.....: SOLID
Date Sampled....: 06/22/09 13:30 Date Received...: 06/23/09 09:55 MS Run #.....: 9175002
Prep Date.....: 06/24/09 Analysis Date...: 06/24/09
Prep Batch #....: 9175010 Analysis Time...: 17:26
Dilution Factor: 5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
% Moisture.....: 17 Analyst ID.....: 003200 Instrument ID...: 731
Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 240 | 41 | ug/kg | 6.1 |
| 2-Methylnaphthalene | 590 | 41 | ug/kg | 7.9 |
| Naphthalene | 2200 | 41 | ug/kg | 5.9 |
| Acenaphthylene | 91 J | 41 | ug/kg | 8.0 |
| Acenaphthene | ND | 41 | ug/kg | 6.5 |
| Fluorene | 1000 | 41 | ug/kg | 6.1 |
| Phenanthrene | 350 | 41 | ug/kg | 4.8 |
| Anthracene | 24 J | 200 | ug/kg | 7.1 |
| Fluoranthene | 92 | 41 | ug/kg | 3.4 |
| Pyrene | 96 | 41 | ug/kg | 11 |
| Benzo(a)anthracene | ND | 41 | ug/kg | 6.4 |
| Chrysene | 120 | 41 | ug/kg | 7.1 |
| Benzo(b)fluoranthene | 36 J | 41 | ug/kg | 8.2 |
| Benzo(k)fluoranthene | ND | 41 | ug/kg | 8.4 |
| Benzo(a)pyrene | 14 J | 41 | ug/kg | 11 |
| Indeno(1,2,3-cd)pyrene | ND | 41 | ug/kg | 2.2 |
| Dibenzo(a,h)anthracene | ND | 41 | ug/kg | 8.9 |
| Benzo(ghi)perylene | 12 J | 41 | ug/kg | 3.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 74 | (27 - 110) |
| Terphenyl-d14 | 69 | (21 - 130) |
| 2-Fluorobiphenyl | 67 | (28 - 108) |
| 2-Fluorophenol | 68 | (28 - 107) |
| Phenol-d5 | 64 | (30 - 112) |
| 2,4,6-Tribromophenol | 28 | (21 - 116) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

WJ
8/10/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F230278

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-SO-B11-4 | C9F230278-001 | Soil |
| 2 | TRIP BLANK | C9F230278-002 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | All samples |
| 06/21/09 | Acrolein | 0.022 RRF | L/R | All samples |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/30/09 | Acrolein | 70.6%/0.037 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 30.3% | None | All ND |
| 07/02/09 | Acrolein | 0.036 RRF | None | Already qualified due to ICAL |
| | Trichlorofluoromethane | 45.2% | None | All ND |
| | 2-Chloroethyl vinyl ether | 25.9% | None | All ND |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|------------|----------------|-----------------------|-----------|------------------|
| LF2J61AA | 2-Butanone | 200 | 2000 | None | All ND |

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/kg | Qualifier | Affected Samples |
|------------|--------------------|---------------|-----------------------|-----------|------------------|
| TRIP BLANK | Methylene chloride | 1.4 | 14 | None | All ND |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Volatiles

Lot-Sample #...: C9F230278-001 Work Order #...: LFGT71AU Matrix.....: SOLID
 Date Sampled...: 06/22/09 Date Received...: 06/23/09 MS Run #.....:
 Prep Date.....: 07/02/09 Analysis Date...: 07/02/09
 Prep Batch #...: 9183414 Analysis Time...: 14:30
 Dilution Factor: 0.85 Initial Wgt/Vol: 5.86 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 17 Analyst ID.....: 001562 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 5100 | ug/kg | 820 |
| Acrylonitrile | ND | 5100 | ug/kg | 420 |
| Benzene | ND | 260 | ug/kg | 51 |
| Bromodichloromethane | ND | 260 | ug/kg | 48 |
| Bromoform | ND | 260 | ug/kg | 55 |
| Bromomethane | ND | 260 | ug/kg | 81 |
| 2-Butanone (MEK) | ND | 260 | ug/kg | 56 |
| Carbon tetrachloride | ND | 260 | ug/kg | 56 |
| Chloroethane | ND | 260 | ug/kg | 38 |
| 2-Chloroethyl vinyl ether | ND | 510 | ug/kg | 57 |
| Chloroform | ND | 260 | ug/kg | 52 |
| Chloromethane | ND | 260 | ug/kg | 48 |
| Dibromochloromethane | ND | 260 | ug/kg | 33 |
| 1,2-Dichlorobenzene | ND | 260 | ug/kg | 35 |
| 1,3-Dichlorobenzene | ND | 260 | ug/kg | 26 |
| 1,4-Dichlorobenzene | ND | 260 | ug/kg | 27 |
| trans-1,2-Dichloroethene | ND | 260 | ug/kg | 39 |
| Dichlorodifluoromethane | ND | 260 | ug/kg | 33 |
| 1,1-Dichloroethane | ND | 260 | ug/kg | 52 |
| 1,2-Dichloroethane | ND | 260 | ug/kg | 49 |
| 1,1-Dichloroethene | ND | 260 | ug/kg | 55 |
| 1,2-Dichloropropane | ND | 260 | ug/kg | 66 |
| cis-1,3-Dichloropropene | ND | 260 | ug/kg | 37 |
| trans-1,3-Dichloropropene | ND | 260 | ug/kg | 30 |
| Ethylbenzene | ND | 260 | ug/kg | 32 |
| Methylene chloride | ND | 260 | ug/kg | 56 |
| 1,1,2,2-Tetrachloroethane | ND | 260 | ug/kg | 48 |
| Tetrachloroethene | ND | 260 | ug/kg | 42 |
| Toluene | 75 J | 260 | ug/kg | 44 |
| 1,1,1-Trichloroethane | ND | 260 | ug/kg | 53 |
| 1,1,2-Trichloroethane | ND | 260 | ug/kg | 60 |
| Trichloroethene | ND | 260 | ug/kg | 41 |
| Trichlorofluoromethane | ND | 260 | ug/kg | 58 |
| Vinyl chloride | ND | 260 | ug/kg | 66 |

(Continued on next page)

mw
8/10/09

Maryland Environmental Service

Client Sample ID: BP-SO-B11-4

GC/MS Volatiles

Lot-Sample #...: C9F230278-001 Work Order #...: LFQT71AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 92 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

raw
8/10/09

2

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F230278-002 Work Order #....: LFGVD1AA Matrix.....: WATER
 Date Sampled...: 06/22/09 Date Received...: 06/23/09 MS Run #.....: 9181026
 Prep Date.....: 06/30/09 Analysis Date...: 06/30/09
 Prep Batch #....: 9181045 Analysis Time...: 11:12
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 010099 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.4 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

 NW
 8/10/09

2

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F230278-002 Work Order #....: LFGVD1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 101 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

NOTE(S):

J Estimated result. Result is less than RL.

NW
8/10/09

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9F260330

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

July 15, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F260330 Revised

NOTE: This report contains the revised chain-of-custody forwarded in an email from Megan Simon, Maryland Environmental Services, Friday, July 17, 2009.

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 26, 2009. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution.

The method blank for batch 9184058 had 2-butanone detected between the MDL and the reporting limit. The result was flagged with a "J" qualifier. Any sample in this batch that had this compound detected had the result flagged with a "B" qualifier.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

The continuing calibration standard CC40702 had an internal standard slightly below the limits of the initial calibrations internal standard. There are no compounds reported from this internal standard.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F260330 Revised

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9F260330

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|---|------------------------------|-------------------------------|
| Semivolatile Organic Compounds by GC/MS | SW846 8270C | SW846 3580A |
| Total Residue as Percent Solids | SM20 2540G | |
| TOC Lloyd Kahn Lloyd Kahn | EPA Lloyd Kahn | EPA Lloyd Kahn |
| Volatile Organics by GC/MS | SW846 8260B | SW846 3580 |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |

References:

- EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY
PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984
- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND
WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F260330

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LFQA4 | 001 | BP-MW-8 | 06/23/09 | 11:40 |
| LFQA5 | 002 | BP-MW-5 | 06/23/09 | 10:00 |
| LFQA6 | 003 | CO13-PZM-008 | 06/23/09 | 13:30 |
| LFQA7 | 004 | BP-HSA-5-0-2 | 06/23/09 | 12:00 |
| LFQA8 | 005 | TRIP BLANK | 06/23/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

[illegible]

Client: EA Engineering Project: Sparrows PT Quote: 82013
Cooler Rec'd & Opened for Temp. Check on: 6/26/09
Coolers Opened and Unpacked on: 6/26/09 By: Ami Vira
C19F260330 (Signature)
TestAmerica Pittsburgh Lot Number:

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>Front</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Bags</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____
Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____
Sulfuric Acid _____

Hydrochloric Acid _____
Sodium Hydroxide _____

C9F260330

10

(1 - 58)

138

500

FedEx *US Airbill*
Express

FedEx
Tracking
Number

8565 6932 5849

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 6/25/09 FedEx Tracking Number 856569325849

Sender's Name Joseph Swirski Phone 410 771-4950

Company E A ENGINEERING SCIENCE & TECH

Address 15 LOVETON CIR Dept./Floor/Suite/Room

City SPARKS GLENCOE State MD ZIP 21152

2 Your Internal Billing Reference 1453406.0001.00043

3 To

Recipient's Name Samuel Receiving Phone 412 963-2428

Company Test America

Recipient's Address 301 Alpha Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address RIOC Park

To request a package be held at a specific FedEx location, print FedEx address here.

City Pittsburgh State PA ZIP 15238

fedex.com 1.800.GoFedEx 1.800.463.3339



8565 6932 5849

0326961324

Recipient's Copy

4a Express Package Service

☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

☐ FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

* To meet locations.

4b Express Freight Service

☐ FedEx 1Day Freight*
Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx 2Day Freight
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx 3Day Freight
Third business day.** Saturday Delivery NOT available.

** To meet locations.

5 Packaging

☐ FedEx Envelope* ☐ FedEx Pak*
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

☐ FedEx Box ☐ FedEx Tube ☒ Other

* Declared value limit \$500.

6 Special Handling

☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 30 day Freight.

☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.

☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?
One box must be checked.

☒ No ☐ Yes
As per attached Shipper's Declaration.

☐ Yes
Shipper's Declaration not required.

☐ Dry Ice
Dry ice, 3, UN 1845 x kg

☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to:

☒ Sender
Acct. No. in Section 1 will be billed.

☐ Recipient ☐ Third Party ☐ Credit Card

Obtain Recip. Acct. No. ☐ Cash/Check

Total Packages 1 Total Weight 42

Total Charges

Liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

3 NEW Residential Delivery Signature Options

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Anyone at recipient's address may sign for delivery. Fee applies.

☐ Indirect Signature
If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. Fee applies.

Rev. Date 8/05 Part #158279-C1994-2005 FedEx-PRINTED IN U.S.A.-SRS

519

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|-------------------------|
| Lot-Sample #....: C9F260330-001 | Work Order #....: LFQA41AA | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9184058 | Analysis Time...: 18:58 | |
| Dilution Factor: 1000 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 50000 | mg/kg | 2900 |
| Acrylonitrile | ND | 50000 | mg/kg | 3400 |
| Benzene | 74000 | 2500 | mg/kg | 500 |
| Bromodichloromethane | ND | 2500 | mg/kg | 470 |
| Bromoform | ND | 2500 | mg/kg | 530 |
| Bromomethane | ND | 2500 | mg/kg | 790 |
| 2-Butanone (MEK) | ND | 2500 | mg/kg | 540 |
| Carbon tetrachloride | ND | 2500 | mg/kg | 540 |
| Chloroethane | ND | 2500 | mg/kg | 370 |
| 2-Chloroethyl vinyl ether | ND | 5000 | mg/kg | 930 |
| Chloroform | ND | 2500 | mg/kg | 500 |
| Chloromethane | ND | 2500 | mg/kg | 700 |
| Dibromochloromethane | ND | 2500 | mg/kg | 320 |
| 1,2-Dichlorobenzene | ND | 2500 | mg/kg | 340 |
| 1,3-Dichlorobenzene | ND | 2500 | mg/kg | 250 |
| 1,4-Dichlorobenzene | ND | 2500 | mg/kg | 260 |
| trans-1,2-Dichloroethene | ND | 2500 | mg/kg | 380 |
| Dichlorodifluoromethane | ND | 2500 | mg/kg | 320 |
| 1,1-Dichloroethane | ND | 2500 | mg/kg | 510 |
| 1,2-Dichloroethane | ND | 2500 | mg/kg | 480 |
| 1,1-Dichloroethene | ND | 2500 | mg/kg | 530 |
| 1,2-Dichloropropane | ND | 2500 | mg/kg | 640 |
| cis-1,3-Dichloropropene | ND | 2500 | mg/kg | 360 |
| trans-1,3-Dichloropropene | ND | 2500 | mg/kg | 290 |
| Ethylbenzene | 4200 | 2500 | mg/kg | 310 |
| Methylene chloride | ND | 2500 | mg/kg | 540 |
| 1,1,2,2-Tetrachloroethane | ND | 2500 | mg/kg | 470 |
| Tetrachloroethene | ND | 2500 | mg/kg | 410 |
| Toluene | 75000 | 2500 | mg/kg | 420 |
| 1,1,1-Trichloroethane | ND | 2500 | mg/kg | 520 |
| 1,1,2-Trichloroethane | ND | 2500 | mg/kg | 580 |
| Trichloroethene | ND | 2500 | mg/kg | 400 |
| Trichlorofluoromethane | ND | 2500 | mg/kg | 560 |
| Vinyl chloride | ND | 2500 | mg/kg | 640 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Volatiles

Lot-Sample #....: C9F260330-001 Work Order #....: LFQA41AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 113 | (65 - 139) |
| Toluene-d8 | 109 | (75 - 125) |
| 4-Bromofluorobenzene | 105 | (65 - 130) |
| Dibromofluoromethane | 99 | (67 - 131) |

Maryland Environmental Service

Client Sample ID: BP-MW-5

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|-------------------------|
| Lot-Sample #....: C9F260330-002 | Work Order #....: LFQA51AA | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9184058 | Analysis Time...: 18:12 | |
| Dilution Factor: 5000 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|--------------|--------------|-------------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 250000 | mg/kg | 14000 |
| Acrylonitrile | ND | 250000 | mg/kg | 17000 |
| Benzene | 170000 | 12000 | mg/kg | 2500 |
| Bromodichloromethane | ND | 12000 | mg/kg | 2300 |
| Bromoform | ND | 12000 | mg/kg | 2700 |
| Bromomethane | ND | 12000 | mg/kg | 3900 |
| 2-Butanone (MEK) | ND | 12000 | mg/kg | 2700 |
| Carbon tetrachloride | ND | 12000 | mg/kg | 2700 |
| Chloroethane | ND | 12000 | mg/kg | 1900 |
| 2-Chloroethyl vinyl ether | ND | 25000 | mg/kg | 4700 |
| Chloroform | ND | 12000 | mg/kg | 2500 |
| Chloromethane | ND | 12000 | mg/kg | 3500 |
| Dibromochloromethane | ND | 12000 | mg/kg | 1600 |
| 1,2-Dichlorobenzene | ND | 12000 | mg/kg | 1700 |
| 1,3-Dichlorobenzene | ND | 12000 | mg/kg | 1300 |
| 1,4-Dichlorobenzene | ND | 12000 | mg/kg | 1300 |
| trans-1,2-Dichloroethene | ND | 12000 | mg/kg | 1900 |
| Dichlorodifluoromethane | ND | 12000 | mg/kg | 1600 |
| 1,1-Dichloroethane | ND | 12000 | mg/kg | 2500 |
| 1,2-Dichloroethane | ND | 12000 | mg/kg | 2400 |
| 1,1-Dichloroethene | ND | 12000 | mg/kg | 2700 |
| 1,2-Dichloropropane | ND | 12000 | mg/kg | 3200 |
| cis-1,3-Dichloropropene | ND | 12000 | mg/kg | 1800 |
| trans-1,3-Dichloropropene | ND | 12000 | mg/kg | 1500 |
| Ethylbenzene | 6100 J | 12000 | mg/kg | 1600 |
| Methylene chloride | ND | 12000 | mg/kg | 2700 |
| 1,1,2,2-Tetrachloroethane | ND | 12000 | mg/kg | 2300 |
| Tetrachloroethene | ND | 12000 | mg/kg | 2100 |
| Toluene | 120000 | 12000 | mg/kg | 2100 |
| 1,1,1-Trichloroethane | ND | 12000 | mg/kg | 2600 |
| 1,1,2-Trichloroethane | ND | 12000 | mg/kg | 2900 |
| Trichloroethene | ND | 12000 | mg/kg | 2000 |
| Trichlorofluoromethane | ND | 12000 | mg/kg | 2800 |
| Vinyl chloride | ND | 12000 | mg/kg | 3200 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: BP-MW-5

GC/MS Volatiles

Lot-Sample #....: C9F260330-002 Work Order #....: LFQA51AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 108 | (65 - 139) |
| Toluene-d8 | 103 | (75 - 125) |
| 4-Bromofluorobenzene | 101 | (65 - 130) |
| Dibromofluoromethane | 94 | (67 - 131) |

NOTE(S) :

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|-------------------------|
| Lot-Sample #....: C9F260330-003 | Work Order #....: LFQA61AA | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: |
| Prep Date.....: 07/06/09 | Analysis Date...: 07/06/09 | |
| Prep Batch #....: 9187203 | Analysis Time...: 11:29 | |
| Dilution Factor: 200 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|-----------|
| Acrolein | ND | 10000 | mg/kg | 570 |
| Acrylonitrile | ND | 10000 | mg/kg | 680 |
| Benzene | 14000 | 500 | mg/kg | 99 |
| Bromodichloromethane | ND | 500 | mg/kg | 93 |
| Bromoform | ND | 500 | mg/kg | 110 |
| Bromomethane | ND | 500 | mg/kg | 160 |
| 2-Butanone (MEK) | ND | 500 | mg/kg | 110 |
| Carbon tetrachloride | ND | 500 | mg/kg | 110 |
| Chloroethane | ND | 500 | mg/kg | 75 |
| 2-Chloroethyl vinyl ether | ND | 1000 | mg/kg | 190 |
| Chloroform | ND | 500 | mg/kg | 100 |
| Chloromethane | ND | 500 | mg/kg | 140 |
| Dibromochloromethane | ND | 500 | mg/kg | 65 |
| 1,2-Dichlorobenzene | ND | 500 | mg/kg | 68 |
| 1,3-Dichlorobenzene | ND | 500 | mg/kg | 51 |
| 1,4-Dichlorobenzene | ND | 500 | mg/kg | 53 |
| trans-1,2-Dichloroethene | ND | 500 | mg/kg | 75 |
| Dichlorodifluoromethane | ND | 500 | mg/kg | 64 |
| 1,1-Dichloroethane | ND | 500 | mg/kg | 100 |
| 1,2-Dichloroethane | ND | 500 | mg/kg | 96 |
| 1,1-Dichloroethene | ND | 500 | mg/kg | 110 |
| 1,2-Dichloropropane | ND | 500 | mg/kg | 130 |
| cis-1,3-Dichloropropene | ND | 500 | mg/kg | 73 |
| trans-1,3-Dichloropropene | ND | 500 | mg/kg | 58 |
| Ethylbenzene | 830 | 500 | mg/kg | 62 |
| Methylene chloride | ND | 500 | mg/kg | 110 |
| 1,1,2,2-Tetrachloroethane | ND | 500 | mg/kg | 93 |
| Tetrachloroethene | ND | 500 | mg/kg | 82 |
| Toluene | 14000 | 500 | mg/kg | 85 |
| 1,1,1-Trichloroethane | ND | 500 | mg/kg | 100 |
| 1,1,2-Trichloroethane | ND | 500 | mg/kg | 120 |
| Trichloroethene | ND | 500 | mg/kg | 80 |
| Trichlorofluoromethane | ND | 500 | mg/kg | 110 |
| Vinyl chloride | ND | 500 | mg/kg | 130 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Volatiles

Lot-Sample #....: C9F260330-003 Work Order #....: LFQA61AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 106 | (65 - 139) |
| Toluene-d8 | 112 | (75 - 125) |
| 4-Bromofluorobenzene | 108 | (65 - 130) |
| Dibromofluoromethane | 98 | (67 - 131) |

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F260330-005 Work Order #....: LFQA81AA Matrix.....: WATER
 Date Sampled....: 06/23/09 Date Received...: 06/26/09 MS Run #.....: 9181026
 Prep Date.....: 06/30/09 Analysis Date...: 06/30/09
 Prep Batch #....: 9181045 Analysis Time...: 10:46
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 010099 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F260330-005 Work Order #....: LFQA81AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 100 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F260330

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 91 | 99 | 96 | 96 | 00 |
| 02 | TRIP BLANK | 93 | 99 | 100 | 100 | 00 |
| 03 | METHOD BLK. LFTOM1AA | 92 | 100 | 95 | 92 | 00 |
| 04 | LCS LFTOM1AC | 96 | 105 | 100 | 97 | 00 |
| 05 | LAB MS/MSD D | 97 | 107 | 103 | 96 | 00 |
| 06 | LAB MS/MSD S | 90 | 99 | 96 | 92 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F260330

Extraction: XXN14QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-MW-8 | 113 | 109 | 105 | 99 | 00 |
| 02 | BP-MW-5 | 108 | 103 | 101 | 94 | 00 |
| 03 | CO13-PZM-008 | 106 | 112 | 108 | 98 | 00 |
| 04 | METHOD BLK. LF3DL1AA | 94 | 102 | 98 | 88 | 00 |
| 05 | METHOD BLK. LF3111AA | 100 | 104 | 100 | 91 | 00 |
| 06 | LCS LF3DL1AC | 96 | 105 | 102 | 94 | 00 |
| 07 | LCS LF3111AC | 100 | 109 | 105 | 95 | 00 |
| 08 | LCSD LF3DL1AD | 96 | 108 | 104 | 95 | 00 |
| 09 | LCSD LF3111AD | 101 | 109 | 106 | 98 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(65-139)
 (75-125)
 (65-130)
 (67-131)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F300000

WO #: LFTOM1AC

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.8 | 87 | 69 - 127 | |
| Trichloroethene | 40.0 | 38.6 | 96 | 80 - 120 | |
| Benzene | 40.0 | 37.0 | 93 | 80 - 120 | |
| Toluene | 40.0 | 34.9 | 87 | 80 - 124 | |
| Chlorobenzene | 40.0 | 41.2 | 103 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G030000

WO #: LF3DL1AC

BATCH: 9184058

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 20.0 | 20.2 | 101 | 63 - 119 | |
| Trichloroethene | 20.0 | 18.2 | 91 | 83 - 112 | |
| Benzene | 20.0 | 20.2 | 101 | 81 - 115 | |
| Toluene | 20.0 | 21.3 | 107 | 80 - 118 | |
| Chlorobenzene | 20.0 | 19.8 | 99 | 77 - 114 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G030000

WO #: LF3DL1AD

BATCH: 9184058

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 20.0 | 20.5 | 103 | 63 - 119 | |
| Trichloroethene | 20.0 | 18.8 | 94 | 83 - 112 | |
| Benzene | 20.0 | 20.8 | 104 | 81 - 115 | |
| Toluene | 20.0 | 22.2 | 111 | 80 - 118 | |
| Chlorobenzene | 20.0 | 20.5 | 103 | 77 - 114 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G060000

WO #: LF3111AC

BATCH: 9187203

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 20.0 | 20.5 | 103 | 63 - 119 | |
| Trichloroethene | 20.0 | 19.0 | 95 | 83 - 112 | |
| Benzene | 20.0 | 21.3 | 107 | 81 - 115 | |
| Toluene | 20.0 | 22.3 | 112 | 80 - 118 | |
| Chlorobenzene | 20.0 | 21.0 | 105 | 77 - 114 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9G060000

WO #: LF3111AD

BATCH: 9187203

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 20.0 | 20.1 | 101 | 63 - 119 | |
| Trichloroethene | 20.0 | 19.1 | 96 | 83 - 112 | |
| Benzene | 20.0 | 21.1 | 106 | 81 - 115 | |
| Toluene | 20.0 | 22.4 | 112 | 80 - 118 | |
| Chlorobenzene | 20.0 | 21.2 | 106 | 77 - 114 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AE

BATCH: 9181045

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 400 | ND | 375 | 94 | 69 - 127 | |
| Trichloroethene | 400 | ND | 411 | 103 | 80 - 120 | |
| Benzene | 400 | 200 | 604 | 100 | 80 - 120 | |
| Toluene | 400 | 280 | 744 | 116 | 80 - 124 | |
| Chlorobenzene | 400 | ND | 440 | 110 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F200209

WO #: LFC8N1AF

BATCH: 9181045

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-------|----------|-------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD | REC | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 400 | 392 | 98 | 4.5 | 20 | 69 - 127 | |
| Trichloroethene | 400 | 427 | 107 | 3.7 | 20 | 80 - 120 | |
| Benzene | 400 | 578 | 94 | 4.2 | 20 | 80 - 120 | |
| Toluene | 400 | 703 | 106 | 5.7 | 20 | 80 - 124 | |
| Chlorobenzene | 400 | 462 | 115 | 4.8 | 20 | 83 - 120 | |

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 5 outside limits
 Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LFT0M1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7063001a.

Lot Number: C9F260330

Date Analyzed: 06/30/09

Time Analyzed: 06:10

Matrix: WATER

Date Extracted: 06/30/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LFC8N1AA | 7063003.D | 06/30/09 | 06:57 |
| 02 | LAB MS/MSD | LFC8N1AE S | 7063007.D | 06/30/09 | 08:33 |
| 03 | LAB MS/MSD | LFC8N1AF D | 7063008.D | 06/30/09 | 08:57 |
| 04 | TRIP BLANK | LFQA81AA | 7063012.D | 06/30/09 | 10:46 |
| 05 | CHECK SAMPLE | LFT0M1AC C | 7063006.D | 06/30/09 | 08:08 |
| 06 | | | | | |
| 07 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F260330
MB Lot-Sample #: C9F300000-045

Work Order #...: LFTOM1AA

Matrix.....: WATER

Analysis Date...: 06/30/09
Dilution Factor: 1

Prep Date.....: 06/30/09
Prep Batch #...: 9181045
Initial Wgt/Vol: 5 mL
Analyst ID.....: 010099

Analysis Time...: 06:10
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 92 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 95 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F260330

Work Order #...: LFTOM1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 92 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LF3DL1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 40702004.

Lot Number: C9F260330

Date Analyzed: 07/02/09

Time Analyzed: 12:11

Matrix: WASTE

Date Extracted: 07/02/09

GC Column: RTX-624 ID: .18

Extraction Method: 3580

Instrument ID: HP4

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-MW-8 | LFQA41AA | 40702017. | 07/02/09 | 18:58 |
| 02 | BP-MW-5 | LFQA51AA | 40702015. | 07/02/09 | 18:12 |
| 03 | CHECK SAMPLE | LF3DL1AC C | 40702005. | 07/02/09 | 12:50 |
| 04 | DUPLICATE CHECK | LF3DL1AD L | 40702006. | 07/02/09 | 13:19 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F260330
MB Lot-Sample #: C9G030000-058

Work Order #...: LF3DL1AA

Matrix.....: WASTE

Analysis Date...: 07/02/09
Dilution Factor: 1

Prep Date.....: 07/02/09
Prep Batch #...: 9184058
Initial Wgt/Vol: 1 g
Analyst ID.....: 001562

Analysis Time...: 12:11
Final Wgt/Vol...: 10 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 50 | mg/kg | SW846 8260B |
| Acrylonitrile | ND | 50 | mg/kg | SW846 8260B |
| Benzene | ND | 2.5 | mg/kg | SW846 8260B |
| Bromodichloromethane | ND | 2.5 | mg/kg | SW846 8260B |
| Bromoform | ND | 2.5 | mg/kg | SW846 8260B |
| Bromomethane | ND | 2.5 | mg/kg | SW846 8260B |
| 2-Butanone (MEK) | 2.0 J | 2.5 | mg/kg | SW846 8260B |
| Carbon tetrachloride | ND | 2.5 | mg/kg | SW846 8260B |
| Chloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 5.0 | mg/kg | SW846 8260B |
| Chloroform | ND | 2.5 | mg/kg | SW846 8260B |
| Chloromethane | ND | 2.5 | mg/kg | SW846 8260B |
| Dibromochloromethane | ND | 2.5 | mg/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 2.5 | mg/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 2.5 | mg/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 2.5 | mg/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 2.5 | mg/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.5 | mg/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 2.5 | mg/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 2.5 | mg/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 2.5 | mg/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 2.5 | mg/kg | SW846 8260B |
| Ethylbenzene | ND | 2.5 | mg/kg | SW846 8260B |
| Methylene chloride | ND | 2.5 | mg/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| Tetrachloroethene | ND | 2.5 | mg/kg | SW846 8260B |
| Toluene | ND | 2.5 | mg/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 2.5 | mg/kg | SW846 8260B |
| Trichloroethene | ND | 2.5 | mg/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 2.5 | mg/kg | SW846 8260B |
| Vinyl chloride | ND | 2.5 | mg/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 94 | (65 - 139) |
| Toluene-d8 | 102 | (75 - 125) |
| 4-Bromofluorobenzene | 98 | (65 - 130) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F260330

Work Order #...: LF3DL1AA

Matrix.....: WASTE

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 88 | (67 - 131) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LF3111AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4070601.D

Lot Number: C9F260330

Date Analyzed: 07/06/09

Time Analyzed: 10:11

Matrix: WASTE

Date Extracted: 07/06/09

GC Column: RTX-624 ID: .18

Extraction Method: 3580

Instrument ID: HP4

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | CO13-PZM-008 | LFQA61AA | 4070604.D | 07/06/09 | 11:29 |
| 02 | CHECK SAMPLE | LF3111AC C | 4070602.D | 07/06/09 | 10:43 |
| 03 | DUPLICATE CHECK | LF3111AD L | 4070603.D | 07/06/09 | 11:06 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C9F260330
MB Lot-Sample #: C9G060000-203

Work Order #....: LF3111AA

Matrix.....: WASTE

Analysis Date...: 07/06/09

Prep Date.....: 07/06/09

Analysis Time...: 10:11

Dilution Factor: 1

Prep Batch #....: 9187203

Final Wgt/Vol...: 10 mL

Initial Wgt/Vol: 1 g

Instrument ID...: HP4

Analyst ID.....: 034635

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|--|-------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 50 | mg/kg | | SW846 8260B |
| Acrylonitrile | ND | 50 | mg/kg | | SW846 8260B |
| Benzene | ND | 2.5 | mg/kg | | SW846 8260B |
| Bromodichloromethane | ND | 2.5 | mg/kg | | SW846 8260B |
| Bromoform | ND | 2.5 | mg/kg | | SW846 8260B |
| Bromomethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 2-Butanone (MEK) | ND | 2.5 | mg/kg | | SW846 8260B |
| Carbon tetrachloride | ND | 2.5 | mg/kg | | SW846 8260B |
| Chloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 5.0 | mg/kg | | SW846 8260B |
| Chloroform | ND | 2.5 | mg/kg | | SW846 8260B |
| Chloromethane | ND | 2.5 | mg/kg | | SW846 8260B |
| Dibromochloromethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 2.5 | mg/kg | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 2.5 | mg/kg | | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,1-Dichloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,2-Dichloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,1-Dichloroethene | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,2-Dichloropropane | ND | 2.5 | mg/kg | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 2.5 | mg/kg | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 2.5 | mg/kg | | SW846 8260B |
| Ethylbenzene | ND | 2.5 | mg/kg | | SW846 8260B |
| Methylene chloride | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| Tetrachloroethene | ND | 2.5 | mg/kg | | SW846 8260B |
| Toluene | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 2.5 | mg/kg | | SW846 8260B |
| Trichloroethene | ND | 2.5 | mg/kg | | SW846 8260B |
| Trichlorofluoromethane | ND | 2.5 | mg/kg | | SW846 8260B |
| Vinyl chloride | ND | 2.5 | mg/kg | | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 100 | (65 - 139) |
| Toluene-d8 | 104 | (75 - 125) |
| 4-Bromofluorobenzene | 100 | (65 - 130) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F260330

Work Order #...: LF3111AA

Matrix.....: WASTE

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 91 | (67 - 131) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F260330
 Lab File ID (Standard): CC70630 Date Analyzed: 06/30/09
 Instrument ID: HP7 Time Analyzed: 0457
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 | | IS2 (CBZ) | | IS3 (DCB) | |
|-----------------|---------|------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12 HOUR STD | 705422 | 7.50 | 152627 | 10.58 | 270389 | 12.90 |
| UPPER LIMIT | 1410844 | 7.70 | 305254 | 10.78 | 540778 | 13.10 |
| LOWER LIMIT | 352711 | 7.30 | 76314 | 10.38 | 135195 | 12.70 |
| EPA SAMPLE NO. | | | | | | |
| 01 INTRA-LAB BL | 895050 | 7.51 | 214188 | 10.58 | 336253 | 12.91 |
| 02 INTRA-LAB CH | 794130 | 7.51 | 196204 | 10.58 | 306813 | 12.91 |
| 03 TRIP BLANK | 722760 | 7.51 | 159241 | 10.58 | 266737 | 12.91 |
| 04 | | | | | | |
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IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:
 Lab Code: Case No.: SAS No.: SDG No.: C9F260330
 Lab File ID (Standard): CC40702 Date Analyzed: 07/02/09
 Instrument ID: HP4 Time Analyzed: 0918
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | RT # | IS2 (DCB) | RT # | IS3 | RT # |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 154637 | 10.76 | 280327 | 13.09 | 736668 | 7.68 |
| UPPER LIMIT | 309274 | 10.96 | 560654 | 13.29 | 1473336 | 7.88 |
| LOWER LIMIT | 77319 | 10.56 | 140164 | 12.89 | 368334 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 166390 | 10.76 | 287698 | 13.09 | 782383 | 7.68 |
| 02 INTRA-LAB CH | 167263 | 10.76 | 299252 | 13.09 | 782079 | 7.68 |
| 03 INTRA-LAB CH | 165900 | 10.76 | 295526 | 13.09 | 788033 | 7.68 |
| 04 BP-MW-5 | 147096 | 10.76 | 242689 | 13.09 | 699064 | 7.69 |
| 05 BP-MW-8 | 143501 | 10.76 | 243017 | 13.09 | 673609 | 7.68 |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F260330
 Lab File ID (Standard): 2C40706 Date Analyzed: 07/06/09
 Instrument ID: HP4 Time Analyzed: 0838
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-----------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 146916 | 10.76 | 261084 | 13.09 | 689707 | 7.68 |
| UPPER LIMIT | 293832 | 10.96 | 522168 | 13.29 | 1379414 | 7.88 |
| LOWER LIMIT | 73458 | 10.56 | 130542 | 12.89 | 344854 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 176347 | 10.76 | 301210 | 13.09 | 835261 | 7.68 |
| 02 INTRA-LAB CH | 147079 | 10.76 | 255951 | 13.09 | 686901 | 7.68 |
| 03 INTRA-LAB CH | 159194 | 10.76 | 283450 | 13.09 | 739063 | 7.68 |
| 04 CO13-PZM-008 | 184220 | 10.76 | 326823 | 13.09 | 857201 | 7.69 |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Semivolatiles

| | | |
|---|---|--------------------------------|
| Lot-Sample #....: C9F260330-001 | Work Order #....: LFQA41AC | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 11:40 | Date Received...: 06/26/09 09:58 | MS Run #.....: |
| Prep Date.....: 06/27/09 | Analysis Date...: 06/29/09 | |
| Prep Batch #....: 9178130 | Analysis Time...: 12:56 | |
| Dilution Factor: 500 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 3300 | 1000 | mg/kg | 200 |
| 1-Methylnaphthalene | 1300 | 1000 | mg/kg | 150 |
| Naphthalene | 54000 | 1000 | mg/kg | 150 |
| Acenaphthylene | 1100 | 1000 | mg/kg | 200 |
| Acenaphthene | 310 J | 1000 | mg/kg | 160 |
| Fluorene | 760 J | 1000 | mg/kg | 150 |
| Phenanthrene | 820 J | 1000 | mg/kg | 120 |
| Anthracene | ND | 1000 | mg/kg | 180 |
| Fluoranthene | 190 J | 1000 | mg/kg | 84 |
| Pyrene | ND | 1000 | mg/kg | 270 |
| Benzo(a)anthracene | ND | 1000 | mg/kg | 160 |
| Chrysene | ND | 1000 | mg/kg | 170 |
| Benzo(b)fluoranthene | ND | 1000 | mg/kg | 200 |
| Benzo(k)fluoranthene | ND | 1000 | mg/kg | 210 |
| Benzo(a)pyrene | ND | 1000 | mg/kg | 280 |
| Indeno(1,2,3-cd)pyrene | ND | 1000 | mg/kg | 55 |
| Dibenzo(a,h)anthracene | ND | 1000 | mg/kg | 220 |
| Benzo(ghi)perylene | ND | 1000 | mg/kg | 74 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC,DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC,DIL | (58 - 127) |
| 2-Fluorophenol | NC,DIL | (63 - 117) |
| Nitrobenzene-d5 | NC,DIL | (35 - 118) |
| Phenol-d5 | NC,DIL | (35 - 118) |
| Terphenyl-d14 | NC,DIL | (35 - 132) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: BP-MW-5

GC/MS Semivolatiles

| | | |
|---|---|--------------------------------|
| Lot-Sample #....: C9F260330-002 | Work Order #....: LFQA51AC | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 10:00 | Date Received...: 06/26/09 09:58 | MS Run #.....: |
| Prep Date.....: 06/27/09 | Analysis Date...: 06/29/09 | |
| Prep Batch #....: 9178130 | Analysis Time...: 13:19 | |
| Dilution Factor: 500 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 3000 | 1000 | mg/kg | 200 |
| 1-Methylnaphthalene | 1200 | 1000 | mg/kg | 150 |
| Naphthalene | 50000 | 1000 | mg/kg | 150 |
| Acenaphthylene | 810 J | 1000 | mg/kg | 200 |
| Acenaphthene | 190 J | 1000 | mg/kg | 160 |
| Fluorene | 660 J | 1000 | mg/kg | 150 |
| Phenanthrene | 670 J | 1000 | mg/kg | 120 |
| Anthracene | ND | 1000 | mg/kg | 180 |
| Fluoranthene | 140 J | 1000 | mg/kg | 84 |
| Pyrene | ND | 1000 | mg/kg | 270 |
| Benzo (a) anthracene | ND | 1000 | mg/kg | 160 |
| Chrysene | ND | 1000 | mg/kg | 170 |
| Benzo (b) fluoranthene | ND | 1000 | mg/kg | 200 |
| Benzo (k) fluoranthene | ND | 1000 | mg/kg | 210 |
| Benzo (a) pyrene | ND | 1000 | mg/kg | 280 |
| Indeno (1,2,3-cd) pyrene | ND | 1000 | mg/kg | 55 |
| Dibenzo (a,h) anthracene | ND | 1000 | mg/kg | 220 |
| Benzo (ghi) perylene | ND | 1000 | mg/kg | 74 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC,DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC,DIL | (58 - 127) |
| 2-Fluorophenol | NC,DIL | (63 - 117) |
| Nitrobenzene-d5 | NC,DIL | (35 - 118) |
| Phenol-d5 | NC,DIL | (35 - 118) |
| Terphenyl-d14 | NC,DIL | (35 - 132) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|-------------------------|
| Lot-Sample #....: C9F260330-003 | Work Order #....: LFQA61AC | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 13:30 | Date Received...: 06/26/09 09:58 | MS Run #.....: |
| Prep Date.....: 06/27/09 | Analysis Date...: 06/29/09 | |
| Prep Batch #....: 9178130 | Analysis Time...: 13:41 | |
| Dilution Factor: 800 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 2-Methylnaphthalene | 21000 | 1600 | mg/kg | 320 |
| 1-Methylnaphthalene | 8600 | 1600 | mg/kg | 240 |
| Naphthalene | 110000 | 1600 | mg/kg | 230 |
| Acenaphthylene | 18000 | 1600 | mg/kg | 320 |
| Acenaphthene | 1100 J | 1600 | mg/kg | 260 |
| Fluorene | 10000 | 1600 | mg/kg | 240 |
| Phenanthrene | 26000 | 1600 | mg/kg | 190 |
| Anthracene | 7000 | 1600 | mg/kg | 280 |
| Fluoranthene | 16000 | 1600 | mg/kg | 140 |
| Pyrene | 11000 | 1600 | mg/kg | 430 |
| Benzo (a) anthracene | 6200 | 1600 | mg/kg | 260 |
| Chrysene | 6400 | 1600 | mg/kg | 280 |
| Benzo (b) fluoranthene | 6800 | 1600 | mg/kg | 320 |
| Benzo (k) fluoranthene | ND | 1600 | mg/kg | 330 |
| Benzo (a) pyrene | 5100 | 1600 | mg/kg | 450 |
| Indeno (1, 2, 3-cd) pyrene | 1800 | 1600 | mg/kg | 88 |
| Dibenzo (a, h) anthracene | 660 J | 1600 | mg/kg | 350 |
| Benzo (ghi) perylene | 2300 | 1600 | mg/kg | 120 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 2,4,6-Tribromophenol | NC,DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC,DIL | (58 - 127) |
| 2-Fluorophenol | NC,DIL | (63 - 117) |
| Nitrobenzene-d5 | NC,DIL | (35 - 118) |
| Phenol-d5 | NC,DIL | (35 - 118) |
| Terphenyl-d14 | NC,DIL | (35 - 132) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F260330

Extraction: XXN14QL01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | BP-MW-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | BP-MW-5 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | CO13-PZM-008 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | METHOD BLK. LFRCA1AA | 85 | 81 | 86 | 85 | 83 | 79 | 00 |
| 05 | LCS LFRCA1AC | 88 | 86 | 85 | 83 | 84 | 76 | 00 |
| 06 | LCSD LFRCA1AD | 84 | 82 | 80 | 84 | 78 | 75 | 00 |

SURROGATES

SRG01 = 2,4,6-Tribromophenol
 SRG02 = 2-Fluorobiphenyl
 SRG03 = 2-Fluorophenol
 SRG04 = Nitrobenzene-d5
 SRG05 = Phenol-d5
 SRG06 = Terphenyl-d14

QC LIMITS

(55-147)
 (58-127)
 (63-117)
 (35-118)
 (35-118)
 (35-132)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F270000

WO #: LFRCAIAC

BATCH: 9178130

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2,4-Trichlorobenzene | 200 | 153 | 76 | 64 - 117 | |
| 1,4-Dichlorobenzene | 200 | 160 | 80 | 67 - 114 | |
| 2,4-Dinitrotoluene | 200 | 169 | 84 | 48 - 140 | |
| 2-Chlorophenol | 200 | 154 | 77 | 67 - 109 | |
| 4-Chloro-3-methylphenol | 200 | 147 | 74 | 59 - 121 | |
| 4-Nitrophenol | 200 | 165 | 83 | 44 - 145 | |
| Acenaphthene | 200 | 160 | 80 | 54 - 119 | |
| N-Nitrosodi-n-propylamine | 200 | 157 | 78 | 61 - 123 | |
| Pentachlorophenol | 200 | 155 | 77 | 5 - 154 | |
| Phenol | 200 | 164 | 82 | 60 - 113 | |
| Pyrene | 200 | 143 | 71 | 40 - 122 | |
| Butyl benzyl phthalate | 200 | 146 | 73 | 46 - 125 | |
| 4-Bromophenyl phenyl ethe | 200 | 156 | 78 | 51 - 124 | |
| 4-Methylphenol | 400 | 308 | 77 | 61 - 113 | |
| Hexachloroethane | 200 | 164 | 82 | 66 - 116 | |
| Naphthalene | 200 | 153 | 76 | 62 - 115 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F270000

WO #: LFRCA1AD

BATCH: 9178130

| COMPOUND | SPIKE ADDED (mg/kg) | SAMPLE CONCENT. (mg/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,2,4-Trichlorobenzene | 200 | 155 | 78 | 64 - 117 | |
| 1,4-Dichlorobenzene | 200 | 155 | 78 | 67 - 114 | |
| 2,4-Dinitrotoluene | 200 | 162 | 81 | 48 - 140 | |
| 2-Chlorophenol | 200 | 143 | 72 | 67 - 109 | |
| 4-Chloro-3-methylphenol | 200 | 146 | 73 | 59 - 121 | |
| 4-Nitrophenol | 200 | 165 | 83 | 44 - 145 | |
| Acenaphthene | 200 | 154 | 77 | 54 - 119 | |
| N-Nitrosodi-n-propylamine | 200 | 148 | 74 | 61 - 123 | |
| Pentachlorophenol | 200 | 151 | 75 | 5 - 154 | |
| Phenol | 200 | 151 | 75 | 60 - 113 | |
| Pyrene | 200 | 141 | 70 | 40 - 122 | |
| Butyl benzyl phthalate | 200 | 146 | 73 | 46 - 125 | |
| 4-Bromophenyl phenyl ethe | 200 | 152 | 76 | 51 - 124 | |
| 4-Methylphenol | 400 | 289 | 72 | 61 - 113 | |
| Hexachloroethane | 200 | 156 | 78 | 66 - 116 | |
| Naphthalene | 200 | 155 | 77 | 62 - 115 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LFRCA1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0629009.

Lot Number: C9F260330

Date Analyzed: 06/29/09

Time Analyzed: 11:49

Matrix: WASTE

Date Extracted:06/27/09

GC Column: ID: .00

Extraction Method: 3580A

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | BP-MW-8 | LFQA41AC | N0629012. | 06/29/09 | 12:56 |
| 02 | BP-MW-5 | LFQA51AC | N0629013. | 06/29/09 | 13:19 |
| 03 | CO13-PZM-008 | LFQA61AC | N0629014. | 06/29/09 | 13:41 |
| 04 | CHECK SAMPLE | LFRCA1AC C | N0629010. | 06/29/09 | 12:11 |
| 05 | DUPLICATE CHECK | LFRCA1AD L | N0629011. | 06/29/09 | 12:34 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9F260330
MB Lot-Sample #: C9F270000-130

Work Order #....: LFRCA1AA

Matrix.....: WASTE

Analysis Date...: 06/29/09
Dilution Factor: 1

Prep Date.....: 06/27/09
Prep Batch #....: 9178130
Initial Wgt/Vol: 1 g
Analyst ID.....: 003200

Analysis Time...: 11:49
Final Wgt/Vol...: 10 mL
Instrument ID...: 733

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 2.0 | mg/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 2.0 | mg/kg | SW846 8270C |
| Naphthalene | ND | 2.0 | mg/kg | SW846 8270C |
| Acenaphthylene | ND | 2.0 | mg/kg | SW846 8270C |
| Acenaphthene | ND | 2.0 | mg/kg | SW846 8270C |
| Fluorene | ND | 2.0 | mg/kg | SW846 8270C |
| Phenanthrene | ND | 2.0 | mg/kg | SW846 8270C |
| Anthracene | ND | 2.0 | mg/kg | SW846 8270C |
| Fluoranthene | ND | 2.0 | mg/kg | SW846 8270C |
| Pyrene | ND | 2.0 | mg/kg | SW846 8270C |
| Benzo(a)anthracene | ND | 2.0 | mg/kg | SW846 8270C |
| Chrysene | ND | 2.0 | mg/kg | SW846 8270C |
| Benzo(b)fluoranthene | ND | 2.0 | mg/kg | SW846 8270C |
| Benzo(k)fluoranthene | ND | 2.0 | mg/kg | SW846 8270C |
| Benzo(a)pyrene | ND | 2.0 | mg/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | ND | 2.0 | mg/kg | SW846 8270C |
| Dibenzo(a,h)anthracene | ND | 2.0 | mg/kg | SW846 8270C |
| Benzo(ghi)perylene | ND | 2.0 | mg/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | 85 | (55 - 147) |
| 2-Fluorobiphenyl | 81 | (58 - 127) |
| 2-Fluorophenol | 86 | (63 - 117) |
| Nitrobenzene-d5 | 85 | (35 - 118) |
| Phenol-d5 | 83 | (35 - 118) |
| Terphenyl-d14 | 79 | (35 - 132) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F260330

Lab File ID (Standard): N06290CC

Date Analyzed: 06/29/09

Instrument ID: 733

Time Analyzed: 1104

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 175805 | 4.37 | 674309 | 5.35 | 380868 | 6.69 |
| UPPER LIMIT | 351610 | 4.87 | 1348618 | 5.85 | 761736 | 7.19 |
| LOWER LIMIT | 87903 | 3.87 | 337155 | 4.85 | 190434 | 6.19 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 186940 | 4.38 | 724521 | 5.35 | 421462 | 6.69 |
| 02 INTRA-LAB CH | 175285 | 4.37 | 707732 | 5.34 | 383758 | 6.69 |
| 03 INTRA-LAB CH | 181812 | 4.38 | 679107 | 5.35 | 383182 | 6.69 |
| 04 BP-MW-8 | 188210 | 4.38 | 737666 | 5.35 | 435044 | 6.69 |
| 05 BP-MW-5 | 194099 | 4.38 | 740674 | 5.34 | 434600 | 6.69 |
| 06 CO13-PZM-008 | 176734 | 4.37 | 694687 | 5.34 | 406237 | 6.69 |
| 07 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F260330

Lab File ID (Standard): N06290CC

Date Analyzed: 06/29/09

Instrument ID: 733

Time Analyzed: 1104

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 613818 | 7.82 | 446490 | 9.86 | 323439 | 11.13 |
| UPPER LIMIT | 1227636 | 8.32 | 892980 | 10.36 | 646878 | 11.63 |
| LOWER LIMIT | 306909 | 7.32 | 223245 | 9.36 | 161720 | 10.63 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 673427 | 7.83 | 489259 | 9.87 | 354018 | 11.14 |
| 02 INTRA-LAB CH | 619772 | 7.83 | 489924 | 9.86 | 337740 | 11.13 |
| 03 INTRA-LAB CH | 615348 | 7.84 | 492224 | 9.87 | 353880 | 11.14 |
| 04 BP-MW-8 | 697070 | 7.83 | 501998 | 9.86 | 360400 | 11.14 |
| 05 BP-MW-5 | 688916 | 7.83 | 505084 | 9.86 | 371456 | 11.14 |
| 06 CO13-PZM-008 | 618453 | 7.83 | 451776 | 9.86 | 332469 | 11.13 |
| 07 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F260330

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-HSA-5-0-2 | C9F260330 004 | LFQA71AA | 86.4 | % | 0.0 | 1.0 | 1 | 6/29/2009 - 6/30/2009 08:03 | 9180113 |

MES Sparrows Point 18001868

TOC

Lab Name: TESTAMERICA PITTSBURGH

Method:

EPA

Lloyd Kahn

Client Name: Maryland Environmental Service

Lot Number:

C9F260330

Matrix: SOLID

Total Organic Carbon by Lloyd Kahn

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-HSA-5-0-2 | C9F260330 004 | LFQA71AC | 70400 | mg/kg | 58.8 | 515 | 0.89 | 7/1/2009 - 7/2/2009 19:56 | 9183244 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F260330

Matrix: SOLID

Date/Time Received: 6/26/2009 9:58:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| INTRA-LAB QC | 006 DUP | LFN481DX | 42.7 | % | 1.0 | 6/29/2009 - 6/30/2009 08:03 | 9180113 | 0.64 / 20 |
| INTRA-LAB QC | 006 DUP | LGPMC1AN | 42.7 | % | 1.0 | 6/29/2009 - 6/30/2009 00:00 | 9195268 | 0.64 / 20 |

MES Sparrows Point 18001868

TOC

Lab Name: TESTAMERICA PITTSBURGH

Method: EPA Lloyd Kahn

Client Name: Maryland Environmental Service

Report ID: C9F260330

Matrix: SOLID

Date/Time Received: 6/17/2009 9:48:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9G020000244B | 244 MB | LF1DH1AA | ND | mg/kg | 500 | 7/1/2009 - 7/2/2009 09:14 | 9183244 | |
| INTRA-LAB QC | 008 DUP | LE5L31CH | 3010 | mg/kg | 663 | 7/1/2009 - 7/2/2009 17:32 | 9183244 | 7.2 / 20 |

MES Sparrows Point 18001868

TOC

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: EPA Lloyd Kahn
 Lot Number: C9G020000
 Date/Time Received: 6/17/2009 9:48:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LF1DH1AC | 83 | 75 - 125 | 7/1/2009 - 7/2/2009 09:29 | 9183244 | 3.4 / 20 |
| DUPLICATE CHECK | LCSD | LF1DH1AD | 80 | 75 - 125 | 7/1/2009 - 7/2/2009 09:43 | 9183244 | 3.4 / 20 |
| LAB MS/MSD | MS | LE5L31CF | 77 | 75 - 125 | 7/1/2009 - 7/2/2009 17:46 | 9183244 | 2.2 / 20 |
| LAB MS/MSD | MSD | LE5L31CG | 78 | 75 - 125 | 7/1/2009 - 7/2/2009 18:01 | 9183244 | 2.2 / 20 |

POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F260330

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-MW-8 | C9F260330-001 | Soil |
| 2 | BP-MW-5 | C9F260330-002 | Soil |
| 3 | CO13-PZM-008 | C9F260330-003 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - Several samples were analyzed at a dilution due to high concentrations of target compounds.

Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Semivolatiles

Lot-Sample #....: C9F260330-001 Work Order #....: LFQA41AC Matrix.....: WASTE
 Date Sampled....: 06/23/09 11:40 Date Received...: 06/26/09 09:58 MS Run #.....:
 Prep Date.....: 06/27/09 Analysis Date...: 06/29/09
 Prep Batch #....: 9178130 Analysis Time...: 12:56
 Dilution Factor: 500 Initial Wgt/Vol: 1 g Final Wgt/Vol...: 10 mL
 % Moisture.....: Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 3300 | 1000 | mg/kg | 200 |
| 1-Methylnaphthalene | 1300 | 1000 | mg/kg | 150 |
| Naphthalene | 54000 | 1000 | mg/kg | 150 |
| Acenaphthylene | 1100 | 1000 | mg/kg | 200 |
| Acenaphthene | 310 J | 1000 | mg/kg | 160 |
| Fluorene | 760 J | 1000 | mg/kg | 150 |
| Phenanthrene | 820 J | 1000 | mg/kg | 120 |
| Anthracene | ND | 1000 | mg/kg | 180 |
| Fluoranthene | 190 J | 1000 | mg/kg | 84 |
| Pyrene | ND | 1000 | mg/kg | 270 |
| Benzo(a)anthracene | ND | 1000 | mg/kg | 160 |
| Chrysene | ND | 1000 | mg/kg | 170 |
| Benzo(b)fluoranthene | ND | 1000 | mg/kg | 200 |
| Benzo(k)fluoranthene | ND | 1000 | mg/kg | 210 |
| Benzo(a)pyrene | ND | 1000 | mg/kg | 280 |
| Indeno(1,2,3-cd)pyrene | ND | 1000 | mg/kg | 55 |
| Dibenzo(a,h)anthracene | ND | 1000 | mg/kg | 220 |
| Benzo(ghi)perylene | ND | 1000 | mg/kg | 74 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC, DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC, DIL | (58 - 127) |
| 2-Fluorophenol | NC, DIL | (63 - 117) |
| Nitrobenzene-d5 | NC, DIL | (35 - 118) |
| Phenol-d5 | NC, DIL | (35 - 118) |
| Terphenyl-d14 | NC, DIL | (35 - 132) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

 MW
 8/10/09

Maryland Environmental Service

Client Sample ID: BP-MW-5

GC/MS Semivolatiles

Lot-Sample #....: C9F260330-002 Work Order #....: LFQA51AC Matrix.....: WASTE
 Date Sampled....: 06/23/09 10:00 Date Received...: 06/26/09 09:58 MS Run #.....:
 Prep Date.....: 06/27/09 Analysis Date...: 06/29/09
 Prep Batch #....: 9178130 Analysis Time...: 13:19
 Dilution Factor: 500 Initial Wgt/Vol: 1 g Final Wgt/Vol...: 10 mL
 % Moisture.....: Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 3000 | 1000 | mg/kg | 200 |
| 1-Methylnaphthalene | 1200 | 1000 | mg/kg | 150 |
| Naphthalene | 50000 | 1000 | mg/kg | 150 |
| Acenaphthylene | 810 J | 1000 | mg/kg | 200 |
| Acenaphthene | 190 J | 1000 | mg/kg | 160 |
| Fluorene | 660 J | 1000 | mg/kg | 150 |
| Phenanthrene | 670 J | 1000 | mg/kg | 120 |
| Anthracene | ND | 1000 | mg/kg | 180 |
| Fluoranthene | 140 J | 1000 | mg/kg | 84 |
| Pyrene | ND | 1000 | mg/kg | 270 |
| Benzo(a)anthracene | ND | 1000 | mg/kg | 160 |
| Chrysene | ND | 1000 | mg/kg | 170 |
| Benzo(b)fluoranthene | ND | 1000 | mg/kg | 200 |
| Benzo(k)fluoranthene | ND | 1000 | mg/kg | 210 |
| Benzo(a)pyrene | ND | 1000 | mg/kg | 280 |
| Indeno(1,2,3-cd)pyrene | ND | 1000 | mg/kg | 55 |
| Dibenzo(a,h)anthracene | ND | 1000 | mg/kg | 220 |
| Benzo(ghi)perylene | ND | 1000 | mg/kg | 74 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC, DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC, DIL | (58 - 127) |
| 2-Fluorophenol | NC, DIL | (63 - 117) |
| Nitrobenzene-d5 | NC, DIL | (35 - 118) |
| Phenol-d5 | NC, DIL | (35 - 118) |
| Terphenyl-d14 | NC, DIL | (35 - 132) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

aw
8/10/09

3

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Semivolatiles

Lot-Sample #....: C9F260330-003 Work Order #....: LFQA61AC Matrix.....: WASTE
 Date Sampled....: 06/23/09 13:30 Date Received...: 06/26/09 09:58 MS Run #.....:
 Prep Date.....: 06/27/09 Analysis Date...: 06/29/09
 Prep Batch #....: 9178130 Analysis Time...: 13:41
 Dilution Factor: 800 Initial Wgt/Vol.: 1 g Final Wgt/Vol...: 10 mL
 % Moisture.....: Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 2-Methylnaphthalene | 21000 | 1600 | mg/kg | 320 |
| 1-Methylnaphthalene | 8600 | 1600 | mg/kg | 240 |
| Naphthalene | 110000 | 1600 | mg/kg | 230 |
| Acenaphthylene | 18000 | 1600 | mg/kg | 320 |
| Acenaphthene | 1100 J | 1600 | mg/kg | 260 |
| Fluorene | 10000 | 1600 | mg/kg | 240 |
| Phenanthrene | 26000 | 1600 | mg/kg | 190 |
| Anthracene | 7000 | 1600 | mg/kg | 280 |
| Fluoranthene | 16000 | 1600 | mg/kg | 140 |
| Pyrene | 11000 | 1600 | mg/kg | 430 |
| Benzo(a)anthracene | 6200 | 1600 | mg/kg | 260 |
| Chrysene | 6400 | 1600 | mg/kg | 280 |
| Benzo(b)fluoranthene | 6800 | 1600 | mg/kg | 320 |
| Benzo(k)fluoranthene | ND | 1600 | mg/kg | 330 |
| Benzo(a)pyrene | 5100 | 1600 | mg/kg | 450 |
| Indeno(1,2,3-cd)pyrene | 1800 | 1600 | mg/kg | 88 |
| Dibenzo(a,h)anthracene | 660 J | 1600 | mg/kg | 350 |
| Benzo(ghi)perylene | 2300 | 1600 | mg/kg | 120 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| 2,4,6-Tribromophenol | NC,DIL | (55 - 147) |
| 2-Fluorobiphenyl | NC,DIL | (58 - 127) |
| 2-Fluorophenol | NC,DIL | (63 - 117) |
| Nitrobenzene-d5 | NC,DIL | (35 - 118) |
| Phenol-d5 | NC,DIL | (35 - 118) |
| Terphenyl-d14 | NC,DIL | (35 - 132) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

hw
8/10/09

TOTAL ORGANIC CARBON (TOC)
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F260330

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-HAS-S-0-2 | C9F260330-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - No discrepancies were identified.

MES Sparrows Point 18001868

TOC

Lab Name: TESTAMERICA PITTSBURGH

Method:

EPA

Lloyd Kahn

Client Name: Maryland Environmental Service

Lot Number:

C9F260330

Matrix: SOLID

Total Organic Carbon by Lloyd Kahn

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| BP-HSA-5-0-2 | C9F260330 004 | LFQA71AC | 70400 | mg/kg | 58.8 | 515 | 0.89 | 7/1/2009 - 7/2/2009 18:56 | 9183244 |

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F260330

Client: Maryland Environmental Service, Millersville, MD Date: August 10, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | BP-MW-8 | C9F260330-001 | Soil |
| 2 | BP-MW-5 | C9F260330-002 | Soil |
| 3 | CO13-PZM-008 | C9F260330-003 | Soil |
| 4 | TRIP BLANK | C9F260330-005 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-3 |
| 06/21/09 | Acrolein | 0.022 RRF | L/R | 4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/30/09 | Acrolein | 70.6%/0.037 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 30.3% | None | All ND |
| 07/02/09 | Trichlorofluoromethane | 45.2% | None | All ND |
| | 2-Chloroethyl vinyl ether | 25.9% | None | All ND |
| | Acrolein | 0.036 RRF | None | Already qualified due to ICAL |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|------------------------|-----------------|-----------|-------------------------------|
| 07/06/09 | Trichlorofluoromethane | 28.2% | None | All ND |
| | Acrolein | 38.4%/0.024 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|------------|----------------|-----------------------|-----------|------------------|
| MBLK | 2-Butanone | 2.0 | 20 | None | All ND |

Trip, Field, Equipment Blank - - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - Several samples were analyzed at a dilution due to high concentrations of target compounds.

Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|-------------------------|
| Lot-Sample #....: C9F260330-001 | Work Order #....: LFQA41AA | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: |
| Prep Date.....: 07/02/09 | Analysis Date...: 07/02/09 | |
| Prep Batch #....: 9184058 | Analysis Time...: 18:58 | |
| Dilution Factor: 1000 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 001562 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 50000 | mg/kg | 2900 |
| Acrylonitrile | ND | 50000 | mg/kg | 3400 |
| Benzene | 74000 | 2500 | mg/kg | 500 |
| Bromodichloromethane | ND | 2500 | mg/kg | 470 |
| Bromoform | ND | 2500 | mg/kg | 530 |
| Bromomethane | ND | 2500 | mg/kg | 790 |
| 2-Butanone (MEK) | ND | 2500 | mg/kg | 540 |
| Carbon tetrachloride | ND | 2500 | mg/kg | 540 |
| Chloroethane | ND | 2500 | mg/kg | 370 |
| 2-Chloroethyl vinyl ether | ND | 5000 | mg/kg | 930 |
| Chloroform | ND | 2500 | mg/kg | 500 |
| Chloromethane | ND | 2500 | mg/kg | 700 |
| Dibromochloromethane | ND | 2500 | mg/kg | 320 |
| 1,2-Dichlorobenzene | ND | 2500 | mg/kg | 340 |
| 1,3-Dichlorobenzene | ND | 2500 | mg/kg | 250 |
| 1,4-Dichlorobenzene | ND | 2500 | mg/kg | 260 |
| trans-1,2-Dichloroethene | ND | 2500 | mg/kg | 380 |
| Dichlorodifluoromethane | ND | 2500 | mg/kg | 320 |
| 1,1-Dichloroethane | ND | 2500 | mg/kg | 510 |
| 1,2-Dichloroethane | ND | 2500 | mg/kg | 480 |
| 1,1-Dichloroethene | ND | 2500 | mg/kg | 530 |
| 1,2-Dichloropropane | ND | 2500 | mg/kg | 640 |
| cis-1,3-Dichloropropene | ND | 2500 | mg/kg | 360 |
| trans-1,3-Dichloropropene | ND | 2500 | mg/kg | 290 |
| Ethylbenzene | 4200 | 2500 | mg/kg | 310 |
| Methylene chloride | ND | 2500 | mg/kg | 540 |
| 1,1,2,2-Tetrachloroethane | ND | 2500 | mg/kg | 470 |
| Tetrachloroethene | ND | 2500 | mg/kg | 410 |
| Toluene | 75000 | 2500 | mg/kg | 420 |
| 1,1,1-Trichloroethane | ND | 2500 | mg/kg | 520 |
| 1,1,2-Trichloroethane | ND | 2500 | mg/kg | 580 |
| Trichloroethene | ND | 2500 | mg/kg | 400 |
| Trichlorofluoromethane | ND | 2500 | mg/kg | 560 |
| Vinyl chloride | ND | 2500 | mg/kg | 640 |

(Continued on next page)

lw
8/10/09
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Maryland Environmental Service

Client Sample ID: BP-MW-8

GC/MS Volatiles

Lot-Sample #...: C9F260330-001 Work Order #...: LFQA41AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 113 | (65 - 139) |
| Toluene-d8 | 109 | (75 - 125) |
| 4-Bromofluorobenzene | 105 | (65 - 130) |
| Dibromofluoromethane | 99 | (67 - 131) |

nw
8/10/09

2

GC/MS Volatiles

| | | | | | |
|------------------|---------------|------------------|-------------|------------------|-------|
| Lot-Sample #... | C9F260330-002 | Work Order #... | LFQA51AA | Matrix..... | WASTE |
| Date Sampled... | 06/23/09 | Date Received... | 06/26/09 | MS Run #..... | |
| Prep Date..... | 07/02/09 | Analysis Date... | 07/02/09 | | |
| Prep Batch #... | 9184058 | Analysis Time... | 18:12 | | |
| Dilution Factor: | 5000 | Initial Wgt/Vol: | 1 g | Final Wgt/Vol... | 10 mL |
| % Moisture..... | | Analyst ID..... | 001562 | Instrument ID... | HP4 |
| | | Method..... | SW846 8260B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|-----------------|-------|-------|
| Acrolein | ND R | 250000 | mg/kg | 14000 |
| Acrylonitrile | ND | 250000 | mg/kg | 17000 |
| Benzene | 170000 | 12000 | mg/kg | 2500 |
| Bromodichloromethane | ND | 12000 | mg/kg | 2300 |
| Bromoform | ND | 12000 | mg/kg | 2700 |
| Bromomethane | ND | 12000 | mg/kg | 3900 |
| 2-Butanone (MEK) | ND | 12000 | mg/kg | 2700 |
| Carbon tetrachloride | ND | 12000 | mg/kg | 2700 |
| Chloroethane | ND | 12000 | mg/kg | 1900 |
| 2-Chloroethyl vinyl ether | ND | 25000 | mg/kg | 4700 |
| Chloroform | ND | 12000 | mg/kg | 2500 |
| Chloromethane | ND | 12000 | mg/kg | 3500 |
| Dibromochloromethane | ND | 12000 | mg/kg | 1600 |
| 1,2-Dichlorobenzene | ND | 12000 | mg/kg | 1700 |
| 1,3-Dichlorobenzene | ND | 12000 | mg/kg | 1300 |
| 1,4-Dichlorobenzene | ND | 12000 | mg/kg | 1300 |
| trans-1,2-Dichloroethene | ND | 12000 | mg/kg | 1900 |
| Dichlorodifluoromethane | ND | 12000 | mg/kg | 1600 |
| 1,1-Dichloroethane | ND | 12000 | mg/kg | 2500 |
| 1,2-Dichloroethane | ND | 12000 | mg/kg | 2400 |
| 1,1-Dichloroethene | ND | 12000 | mg/kg | 2700 |
| 1,2-Dichloropropane | ND | 12000 | mg/kg | 3200 |
| cis-1,3-Dichloropropene | ND | 12000 | mg/kg | 1800 |
| trans-1,3-Dichloropropene | ND | 12000 | mg/kg | 1500 |
| Ethylbenzene | 6100 J | 12000 | mg/kg | 1600 |
| Methylene chloride | ND | 12000 | mg/kg | 2700 |
| 1,1,2,2-Tetrachloroethane | ND | 12000 | mg/kg | 2300 |
| Tetrachloroethene | ND | 12000 | mg/kg | 2100 |
| Toluene | 120000 | 12000 | mg/kg | 2100 |
| 1,1,1-Trichloroethane | ND | 12000 | mg/kg | 2600 |
| 1,1,2-Trichloroethane | ND | 12000 | mg/kg | 2900 |
| Trichloroethene | ND | 12000 | mg/kg | 2000 |
| Trichlorofluoromethane | ND | 12000 | mg/kg | 2800 |
| Vinyl chloride | ND | 12000 | mg/kg | 3200 |

(Continued on next page)

C9F260330

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(1 - 58)

Maryland Environmental Service

Client Sample ID: BP-MW-5

GC/MS Volatiles

Lot-Sample #...: C9F260330-002 Work Order #...: LFQA51AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 108 | (65 - 139) |
| Toluene-d8 | 103 | (75 - 125) |
| 4-Bromofluorobenzene | 101 | (65 - 130) |
| Dibromofluoromethane | 94 | (67 - 131) |

NOTE(S) :

J Estimated result. Result is less than RL.

3

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|-------------------------|
| Lot-Sample #....: C9F260330-003 | Work Order #....: LFQA61AA | Matrix.....: WASTE |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: |
| Prep Date.....: 07/06/09 | Analysis Date...: 07/06/09 | |
| Prep Batch #....: 9187203 | Analysis Time...: 11:29 | |
| Dilution Factor: 200 | Initial Wgt/Vol: 1 g | Final Wgt/Vol...: 10 mL |
| % Moisture.....: | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 10000 | mg/kg | 570 |
| Acrylonitrile | ND | 10000 | mg/kg | 680 |
| Benzene | 14000 | 500 | mg/kg | 99 |
| Bromodichloromethane | ND | 500 | mg/kg | 93 |
| Bromoform | ND | 500 | mg/kg | 110 |
| Bromomethane | ND | 500 | mg/kg | 160 |
| 2-Butanone (MEK) | ND | 500 | mg/kg | 110 |
| Carbon tetrachloride | ND | 500 | mg/kg | 110 |
| Chloroethane | ND | 500 | mg/kg | 75 |
| 2-Chloroethyl vinyl ether | ND | 1000 | mg/kg | 190 |
| Chloroform | ND | 500 | mg/kg | 100 |
| Chloromethane | ND | 500 | mg/kg | 140 |
| Dibromochloromethane | ND | 500 | mg/kg | 65 |
| 1,2-Dichlorobenzene | ND | 500 | mg/kg | 68 |
| 1,3-Dichlorobenzene | ND | 500 | mg/kg | 51 |
| 1,4-Dichlorobenzene | ND | 500 | mg/kg | 53 |
| trans-1,2-Dichloroethene | ND | 500 | mg/kg | 75 |
| Dichlorodifluoromethane | ND | 500 | mg/kg | 64 |
| 1,1-Dichloroethane | ND | 500 | mg/kg | 100 |
| 1,2-Dichloroethane | ND | 500 | mg/kg | 96 |
| 1,1-Dichloroethene | ND | 500 | mg/kg | 110 |
| 1,2-Dichloropropane | ND | 500 | mg/kg | 130 |
| cis-1,3-Dichloropropene | ND | 500 | mg/kg | 73 |
| trans-1,3-Dichloropropene | ND | 500 | mg/kg | 58 |
| Ethylbenzene | 830 | 500 | mg/kg | 62 |
| Methylene chloride | ND | 500 | mg/kg | 110 |
| 1,1,2,2-Tetrachloroethane | ND | 500 | mg/kg | 93 |
| Tetrachloroethene | ND | 500 | mg/kg | 82 |
| Toluene | 14000 | 500 | mg/kg | 85 |
| 1,1,1-Trichloroethane | ND | 500 | mg/kg | 100 |
| 1,1,2-Trichloroethane | ND | 500 | mg/kg | 120 |
| Trichloroethene | ND | 500 | mg/kg | 80 |
| Trichlorofluoromethane | ND | 500 | mg/kg | 110 |
| Vinyl chloride | ND | 500 | mg/kg | 130 |

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ND
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3

Maryland Environmental Service

Client Sample ID: C013-PZM-008

GC/MS Volatiles

Lot-Sample #...: C9F260330-003 Work Order #...: LFQA61AA Matrix.....: WASTE

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 106 | (65 - 139) |
| Toluene-d8 | 112 | (75 - 125) |
| 4-Bromofluorobenzene | 108 | (65 - 130) |
| Dibromofluoromethane | 98 | (67 - 131) |

4

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F260330-005 | Work Order #....: LFQA81AA | Matrix.....: WATER |
| Date Sampled....: 06/23/09 | Date Received...: 06/26/09 | MS Run #.....: 9181026 |
| Prep Date.....: 06/30/09 | Analysis Date...: 06/30/09 | |
| Prep Batch #....: 9181045 | Analysis Time...: 10:46 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 010099 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

WJ
8/10/09

4

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F260330-005 Work Order #....: LFQA81AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 99 | (80 - 120) |
| 4-Bromofluorobenzene | 100 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

COAL TAR STORAGE AREA ANALYTICAL RESULTS - SOIL

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS


MES Sparrows Point 18001868

Lot #: C9F030296

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

June 10, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F030296

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 3, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed as medium level.

The matrix spike and matrix spike duplicate recovered below control limits for all compounds.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. Several samples had the surrogates diluted out.

Sample CT-SO-B01-10 had surrogate recoveries outside the control limits.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F030296

GC/MS Semivolatiles cont.:

The continuing calibration standard N06050CC had compounds with a %D > 25%; but were within expected performance range for these compounds.

Metals:

The serial dilution percent difference for CT-SO-B01-18 was outside the control limit for antimony.

The samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, nickel, selenium and mercury. The matrix spike duplicate recovered outside the control limit for copper. The matrix spike recovered outside the control limit for arsenic.

For the matrix spike and matrix spike duplicate, chromium, lead, and zinc recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

The matrix spike recovered above the control limit for cyanide.

METHODS SUMMARY

C9F030296

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F030296

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LD9FK | 001 | CT-SO-B01-10 | 06/02/09 | 09:15 |
| LD9FQ | 002 | CT-SO-B01-18 | 06/02/09 | 10:30 |
| LD9F1 | 003 | CT-SO-B01-14 | 06/02/09 | 11:00 |
| LD9F4 | 004 | TRIP BLANK | 06/02/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COC #07

[illegible]

Cooler Receipt Form

TestAmerica Pittsburgh

Client: MES

Project: _____

Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: _____

6 3 9

Coolers Opened and Unpacked on: _____

6 3 9

By: JO

(Signature)

TestAmerica Pittsburgh Lot Number: _____

C9F030296

| | Yes | No | NA |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>F</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>BUBBLE BAGS</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____

Hydrochloric Acid _____

Sulfuric Acid

Sodium Hydroxide

FedEx Express **US Airbill**

8694 4003 0528

0200

Form
ID No.

FedEx Retrieval Copy

1 From **6/2/09** Date
Sender's Name **Steve Yankay**
Company **EA Engineering**
Address **15 Loveton Circle**
City **Sparks** State **MD** ZIP **21152**
Sender's FedEx Account Number **0212-0722-5**
Phone **714 487-6632**

2 Your Internal Billing Reference

3 To Recipient's Name **Sample Receiving**
Company **Test America**
Address **301 Alpha Drive**
City **P. Asburgh** State **PA** ZIP **15238**
Recipient's Address **RIDC Park**
Phone **412 963-2428**
We cannot deliver to P.O. boxes or R.O. ZIP codes.
To request a package be held at a specific FedEx location, print FedEx address here.



8694 4003 0528

4a Express Package Service

- 1 ☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
3 ☐ FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.
20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.
6 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
* To most locations.

4b Express Freight Service

- 7 ☐ FedEx 1Day Freight*
Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ FedEx 2Day Freight
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight
Third business day.* Saturday Delivery NOT available.
* Call for Confirmation. ** To most locations.

5 Packaging

- 6 ☐ FedEx Envelope*
2 ☐ FedEx Pak*
3 ☐ FedEx Box
4 ☐ FedEx Tube
1 ☒ Other
* Declared value limit \$500.

6 Special Handling

- 3 ☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 ☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.
31 ☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods?
One box must be checked.
X No 4 ☐ Yes
As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
6 ☐ Dry Ice
Dry Ice, 9 UN 1845 x kg
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
Cargo Aircraft Only

7 Payment

- Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
1 ☒ Sender Acct. No. in Section 1 will be billed.
2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages

Total Weight

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

- No Signature Required
Package may be left without obtaining a signature for delivery.
10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F030296-001 | Work Order #....: LD9FK1AV | Matrix.....: SOLID |
| Date Sampled....: 06/02/09 | Date Received...: 06/03/09 | MS Run #.....: 9158003 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9158011 | Analysis Time...: 12:45 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 4.99 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 10 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 5600 | ug/kg | 880 |
| Acrylonitrile | ND | 5600 | ug/kg | 450 |
| Benzene | 490 | 280 | ug/kg | 55 |
| Bromodichloromethane | ND | 280 | ug/kg | 52 |
| Bromoform | ND | 280 | ug/kg | 60 |
| Bromomethane | ND | 280 | ug/kg | 88 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 60 |
| Carbon tetrachloride | ND | 280 | ug/kg | 60 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 560 | ug/kg | 62 |
| Chloroform | ND | 280 | ug/kg | 56 |
| Chloromethane | ND | 280 | ug/kg | 52 |
| Dibromochloromethane | ND | 280 | ug/kg | 36 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 38 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 28 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 42 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 35 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 56 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 53 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 59 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 71 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 40 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 32 |
| Ethylbenzene | 54 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 61 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 52 |
| Tetrachloroethene | ND | 280 | ug/kg | 46 |
| Toluene | 380 | 280 | ug/kg | 47 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 57 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 65 |
| Trichloroethene | ND | 280 | ug/kg | 45 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 62 |
| Vinyl chloride | ND | 280 | ug/kg | 72 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Volatiles

Lot-Sample #...: C9F030296-001 Work Order #...: LD9FK1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F030296-002 | Work Order #....: LD9FQ1C1 | Matrix.....: SOLID |
| Date Sampled...: 06/02/09 | Date Received...: 06/03/09 | MS Run #.....: 9158003 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9158011 | Analysis Time...: 13:09 | |
| Dilution Factor: 4.84 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 24 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|------------|
| Acrolein | ND | 32000 | ug/kg | 5000 |
| Acrylonitrile | ND | 32000 | ug/kg | 2600 |
| Benzene | 15000 | 1600 | ug/kg | 310 |
| Bromodichloromethane | ND | 1600 | ug/kg | 300 |
| Bromoform | ND | 1600 | ug/kg | 340 |
| Bromomethane | ND | 1600 | ug/kg | 500 |
| 2-Butanone (MEK) | ND | 1600 | ug/kg | 340 |
| Carbon tetrachloride | ND | 1600 | ug/kg | 340 |
| Chloroethane | ND | 1600 | ug/kg | 240 |
| 2-Chloroethyl vinyl ether | ND | 3200 | ug/kg | 350 |
| Chloroform | ND | 1600 | ug/kg | 320 |
| Chloromethane | ND | 1600 | ug/kg | 290 |
| Dibromochloromethane | ND | 1600 | ug/kg | 210 |
| 1,2-Dichlorobenzene | ND | 1600 | ug/kg | 220 |
| 1,3-Dichlorobenzene | ND | 1600 | ug/kg | 160 |
| 1,4-Dichlorobenzene | ND | 1600 | ug/kg | 170 |
| trans-1,2-Dichloroethene | ND | 1600 | ug/kg | 240 |
| Dichlorodifluoromethane | ND | 1600 | ug/kg | 200 |
| 1,1-Dichloroethane | ND | 1600 | ug/kg | 320 |
| 1,2-Dichloroethane | ND | 1600 | ug/kg | 300 |
| 1,1-Dichloroethene | ND | 1600 | ug/kg | 340 |
| 1,2-Dichloropropane | ND | 1600 | ug/kg | 400 |
| cis-1,3-Dichloropropene | ND | 1600 | ug/kg | 230 |
| trans-1,3-Dichloropropene | ND | 1600 | ug/kg | 180 |
| Ethylbenzene | 1300 J | 1600 | ug/kg | 200 |
| Methylene chloride | ND | 1600 | ug/kg | 350 |
| 1,1,2,2-Tetrachloroethane | ND | 1600 | ug/kg | 300 |
| Tetrachloroethene | ND | 1600 | ug/kg | 260 |
| Toluene | 26000 | 1600 | ug/kg | 270 |
| 1,1,1-Trichloroethane | ND | 1600 | ug/kg | 330 |
| 1,1,2-Trichloroethane | ND | 1600 | ug/kg | 370 |
| Trichloroethene | ND | 1600 | ug/kg | 250 |
| Trichlorofluoromethane | ND | 1600 | ug/kg | 360 |
| Vinyl chloride | ND | 1600 | ug/kg | 410 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Volatiles

Lot-Sample #...: C9F030296-002 Work Order #...: LD9FQ1C1 Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F030296-003 | Work Order #....: LD9F11AV | Matrix.....: SOLID |
| Date Sampled....: 06/02/09 | Date Received...: 06/03/09 | MS Run #.....: 9158003 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9158011 | Analysis Time...: 11:56 | |
| Dilution Factor: 0.99 | Initial Wgt/Vol: 5.06 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 15 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 5800 | ug/kg | 920 |
| Acrylonitrile | ND | 5800 | ug/kg | 470 |
| Benzene | 630 | 290 | ug/kg | 57 |
| Bromodichloromethane | ND | 290 | ug/kg | 54 |
| Bromoform | ND | 290 | ug/kg | 62 |
| Bromomethane | ND | 290 | ug/kg | 91 |
| 2-Butanone (MEK) | ND | 290 | ug/kg | 63 |
| Carbon tetrachloride | ND | 290 | ug/kg | 63 |
| Chloroethane | ND | 290 | ug/kg | 43 |
| 2-Chloroethyl vinyl ether | ND | 580 | ug/kg | 64 |
| Chloroform | ND | 290 | ug/kg | 59 |
| Chloromethane | ND | 290 | ug/kg | 54 |
| Dibromochloromethane | ND | 290 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 290 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 290 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 290 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 290 | ug/kg | 44 |
| Dichlorodifluoromethane | ND | 290 | ug/kg | 37 |
| 1,1-Dichloroethane | ND | 290 | ug/kg | 59 |
| 1,2-Dichloroethane | ND | 290 | ug/kg | 56 |
| 1,1-Dichloroethene | ND | 290 | ug/kg | 62 |
| 1,2-Dichloropropane | ND | 290 | ug/kg | 74 |
| cis-1,3-Dichloropropene | ND | 290 | ug/kg | 42 |
| trans-1,3-Dichloropropene | ND | 290 | ug/kg | 34 |
| Ethylbenzene | 58 J | 290 | ug/kg | 36 |
| Methylene chloride | ND | 290 | ug/kg | 63 |
| 1,1,2,2-Tetrachloroethane | ND | 290 | ug/kg | 54 |
| Tetrachloroethene | ND | 290 | ug/kg | 48 |
| Toluene | 510 | 290 | ug/kg | 49 |
| 1,1,1-Trichloroethane | ND | 290 | ug/kg | 60 |
| 1,1,2-Trichloroethane | ND | 290 | ug/kg | 67 |
| Trichloroethene | ND | 290 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 290 | ug/kg | 65 |
| Vinyl chloride | ND | 290 | ug/kg | 75 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Volatiles

Lot-Sample #...: C9F030296-003 Work Order #...: LD9F11AV Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F030296-004 | Work Order #...: LD9F41AA | Matrix.....: WATER |
| Date Sampled...: 06/02/09 | Date Received...: 06/03/09 | MS Run #.....: 9155244 |
| Prep Date.....: 06/04/09 | Analysis Date...: 06/04/09 | |
| Prep Batch #...: 9155473 | Analysis Time...: 15:37 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F030296-004 Work Order #...: LD9F41AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (62 - 123) |
| Toluene-d8 | 103 | (80 - 120) |
| 4-Bromofluorobenzene | 99 | (75 - 120) |
| Dibromofluoromethane | 104 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030296

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B01-10 | 87 | 103 | 99 | 95 | 00 |
| 02 | CT-SO-B01-18 | 88 | 104 | 100 | 100 | 00 |
| 03 | CT-SO-B01-14 | 89 | 103 | 99 | 97 | 00 |
| 04 | METHOD BLK. LEG241AA | 79 | 100 | 97 | 89 | 00 |
| 05 | LCS LEG241AC | 81 | 102 | 97 | 96 | 00 |
| 06 | CT-SO-B01-18 D | 87 | 104 | 102 | 102 | 00 |
| 07 | CT-SO-B01-18 S | 87 | 105 | 101 | 101 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030296

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 97 | 102 | 99 | 103 | 00 |
| 02 | TRIP BLANK | 97 | 103 | 99 | 104 | 00 |
| 03 | METHOD BLK. LECVT1AA | 95 | 94 | 93 | 94 | 00 |
| 04 | LCS LECVT1AC | 93 | 101 | 93 | 90 | 00 |
| 05 | LAB MS/MSD D | 93 | 101 | 93 | 92 | 00 |
| 06 | LAB MS/MSD S | 92 | 101 | 92 | 95 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F040000

WO #: LECVT1AC

BATCH: 9155473

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Toluene | 40.0 | 43.1 | 108 | 80 - 124 | |
| Chlorobenzene | 40.0 | 42.8 | 107 | 83 - 120 | |
| 1,1-Dichloroethene | 40.0 | 32.0 | 80 | 69 - 127 | |
| Trichloroethene | 40.0 | 40.3 | 101 | 80 - 120 | |
| Benzene | 40.0 | 38.6 | 96 | 80 - 120 | |

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F070000

WO #: LEG241AC

BATCH: 9158011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2070 | 104 | 59- 129 | |
| Trichloroethene | 2000 | 2110 | 105 | 76- 119 | |
| Benzene | 2000 | 2020 | 101 | 77- 120 | |
| Toluene | 2000 | 2270 | 114 | 78- 124 | |
| Chlorobenzene | 2000 | 2250 | 112 | 79- 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E290341

WO #: LD2KT1DK

BATCH: 9155473

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 32.9 | 82 | 69- 127 | |
| Trichloroethene | 40.0 | 1.7 | 39.8 | 95 | 80- 120 | |
| Benzene | 40.0 | ND | 38.4 | 96 | 80- 120 | |
| Toluene | 40.0 | ND | 43.5 | 109 | 80- 124 | |
| Chlorobenzene | 40.0 | ND | 41.4 | 103 | 83- 120 | |

NOTES(S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ____0 out of ____0 outside limits

Spike Recovery: ____0 out of ____5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9E290341

WO #: LD2KT1DL

BATCH: 9155473

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 30.9 | 77 | 6.3 | 20 | 69 - 127 | |
| Trichloroethene | 40.0 | 41.4 | 99 | 4.1 | 20 | 80 - 120 | |
| Benzene | 40.0 | 38.4 | 96 | 0.0 | 20 | 80 - 120 | |
| Toluene | 40.0 | 42.9 | 107 | 1.3 | 20 | 80 - 124 | |
| Chlorobenzene | 40.0 | 42.6 | 107 | 3.0 | 20 | 83 - 120 | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B01-18

Level: (low/med) LOW

Lot #: C9F030296

WO #: LD9FQ1C5

BATCH: 9158011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| 1,1-Dichloroethene | 12900 | ND | 6940 | 54* | 59 - 129 | a |
| Trichloroethene | 12900 | ND | 8570 | 66* | 76 - 119 | a |
| Benzene | 12900 | 15000 | 16100 | 9* | 77 - 120 | a |
| Toluene | 12900 | 26000 | 22100 | 0* | 78 - 124 | a |
| Chlorobenzene | 12900 | ND | 8590 | 66* | 79 - 120 | a |

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 5 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B01-18

Level: (low/med) LOW

Lot #: C9F030296

WO #: LD9FQ1C6

BATCH: 9158011

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 12600 | 6210 | 49* | 11 | 25 | 59 - 129 | a |
| Trichloroethene | 12600 | 7930 | 63* | 7.8 | 21 | 76 - 119 | a |
| Benzene | 12600 | 15200 | 3* | 5.4 | 20 | 77 - 120 | a |
| Toluene | 12600 | 20700 | 0* | 0.0 | 21 | 78 - 124 | a |
| Chlorobenzene | 12600 | 8100 | 64* | 5.9 | 20 | 79 - 120 | a |

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 5 out of 5 outside limits

COMMENTS:

FORM III

LECVT1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7060402.D

Lot Number: C9F030296

Date Analyzed: 06/04/09

Time Analyzed: 09:42

Matrix: WATER

Date Extracted: 06/04/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LD2KT1AA | 7060415.D | 06/04/09 | 16:02 |
| 02 | LAB MS/MSD | LD2KT1DK S | 7060404.D | 06/04/09 | 10:32 |
| 03 | LAB MS/MSD | LD2KT1DL D | 7060405.D | 06/04/09 | 10:56 |
| 04 | TRIP BLANK | LD9F41AA | 7060414.D | 06/04/09 | 15:37 |
| 05 | CHECK SAMPLE | LECVT1AC C | 7060406.D | 06/04/09 | 11:20 |
| 06 | | | | | |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F030296
MB Lot-Sample #: C9F040000-473

Work Order #...: LECVT1AA

Matrix.....: WATER

Analysis Date...: 06/04/09
Dilution Factor: 1

Prep Date.....: 06/04/09
Prep Batch #...: 9155473
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 09:42
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | METHOD |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 95 | (62 - 123) |
| Toluene-d8 | 94 | (80 - 120) |
| 4-Bromofluorobenzene | 93 | (75 - 120) |
| Dibromofluoromethane | 94 | (80 - 120) |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LEG241AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4060501.D

Lot Number: C9F030296

Date Analyzed: 06/05/09

Time Analyzed: 10:33

Matrix: SOLID

Date Extracted:06/05/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level:(low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B01-10 | LD9FK1AV | 4060506.D | 06/05/09 | 12:45 |
| 02 | CT-SO-B01-18 | LD9FQ1C1 | 4060507.D | 06/05/09 | 13:09 |
| 03 | CT-SO-B01-18 | LD9FQ1C5 S | 4060514.D | 06/05/09 | 16:18 |
| 04 | CT-SO-B01-18 | LD9FQ1C6 D | 4060515.D | 06/05/09 | 16:42 |
| 05 | CT-SO-B01-14 | LD9F11AV | 4060504.D | 06/05/09 | 11:56 |
| 06 | CHECK SAMPLE | LEG241AC C | 4060508.D | 06/05/09 | 13:47 |
| 07 | | | | | |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F030296
 MB Lot-Sample #: C9F070000-011

Work Order #...: LEG241AA

Matrix.....: SOLID

Analysis Date...: 06/05/09
 Dilution Factor: 1

Prep Date.....: 06/05/09

Analysis Time...: 10:33

Prep Batch #...: 9158011

Final Wgt/Vol...: 5 mL

Initial Wgt/Vol: 5 g

Instrument ID...: HP4

Analyst ID.....: 034635

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 79 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 97 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F030296

Work Order #...: LEG241AA

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|----------------------|--------|--------------------|-------|--------|
| Dibromofluoromethane | 89 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F030296
 Lab File ID (Standard): CC70604 Date Analyzed: 06/04/09
 Instrument ID: HP7 Time Analyzed: 0701
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 315822 | 10.58 | 558654 | 12.91 | 1412859 | 7.51 |
| UPPER LIMIT | 631644 | 10.78 | 1117308 | 13.11 | 2825718 | 7.71 |
| LOWER LIMIT | 157911 | 10.38 | 279327 | 12.71 | 706430 | 7.31 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 380201 | 10.58 | 709289 | 12.91 | 1670252 | 7.51 |
| 02 INTRA-LAB CH | 381488 | 10.58 | 609372 | 12.91 | 1536162 | 7.51 |
| 03 TRIP BLANK | 279581 | 10.58 | 518016 | 12.91 | 1276376 | 7.51 |
| 04 | | | | | | |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| 14 | | | | | | |
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| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F030296
 Lab File ID (Standard): 2C40605 Date Analyzed: 06/05/09
 Instrument ID: HP4 Time Analyzed: 0846
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 177615 | 10.76 | 317988 | 13.09 | 857310 | 7.68 |
| UPPER LIMIT | 355230 | 10.96 | 635976 | 13.29 | 1714620 | 7.88 |
| LOWER LIMIT | 88808 | 10.56 | 158994 | 12.89 | 428655 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 221751 | 10.76 | 405515 | 13.09 | 1088764 | 7.68 |
| 02 CT-SO-B01-14 | 179525 | 10.76 | 323676 | 13.09 | 795805 | 7.68 |
| 03 CT-SO-B01-10 | 189769 | 10.76 | 335040 | 13.09 | 823994 | 7.68 |
| 04 CT-SO-B01-18 | 186447 | 10.76 | 324574 | 13.09 | 830192 | 7.68 |
| 05 INTRA-LAB CH | 196735 | 10.76 | 342879 | 13.09 | 913853 | 7.68 |
| 06 CT-SO-B01-18 | 188876 | 10.76 | 334353 | 13.09 | 847473 | 7.68 |
| 07 CT-SO-B01-18 | 187661 | 10.76 | 334856 | 13.09 | 839295 | 7.68 |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F030296-001 | Work Order #....: LD9FK1AC | Matrix.....: SOLID |
| Date Sampled....: 06/02/09 09:15 | Date Received...: 06/03/09 09:50 | MS Run #.....: 9156020 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9156028 | Analysis Time...: 11:19 | |
| Dilution Factor: 5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 10 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 230 | 37 | ug/kg | 5.6 |
| 2-Methylnaphthalene | 360 | 37 | ug/kg | 7.3 |
| Naphthalene | 930 | 37 | ug/kg | 5.4 |
| Acenaphthylene | 86 | 37 | ug/kg | 7.4 |
| Acenaphthene | 47 | 37 | ug/kg | 6.0 |
| Fluorene | 110 | 37 | ug/kg | 5.6 |
| Phenanthrene | 2000 | 37 | ug/kg | 4.4 |
| Anthracene | 210 | 180 | ug/kg | 6.5 |
| Fluoranthene | 2600 | 37 | ug/kg | 3.1 |
| Pyrene | 1400 | 37 | ug/kg | 9.9 |
| Benzo (a) anthracene | 770 | 37 | ug/kg | 5.9 |
| Chrysene | 1100 | 37 | ug/kg | 6.5 |
| Benzo (b) fluoranthene | 1000 | 37 | ug/kg | 7.5 |
| Benzo (k) fluoranthene | ND | 37 | ug/kg | 7.7 |
| Benzo (a) pyrene | 470 | 37 | ug/kg | 10 |
| Indeno (1,2,3-cd) pyrene | 330 | 37 | ug/kg | 2.0 |
| Dibenzo (a,h) anthracene | 120 | 37 | ug/kg | 8.2 |
| Benzo (ghi) perylene | 410 | 37 | ug/kg | 2.7 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 123 * | (27 - 110) |
| Terphenyl-d14 | 98 | (21 - 130) |
| 2-Fluorobiphenyl | 116 * | (28 - 108) |
| 2-Fluorophenol | 42 | (28 - 107) |
| Phenol-d5 | 91 | (30 - 112) |
| 2,4,6-Tribromophenol | 13 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.
Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Semivolatiles

Lot-Sample #....: C9F030296-002 Work Order #....: LD9FQ1AE Matrix.....: SOLID
 Date Sampled...: 06/02/09 10:30 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9156028 Analysis Time...: 10:40
 Dilution Factor: 200 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING | | |
|----------------------------|-----------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 160000 | 1800 | ug/kg | 260 |
| 2-Methylnaphthalene | 410000 E | 1800 | ug/kg | 340 |
| Naphthalene | 1100000 E | 1800 | ug/kg | 250 |
| Acenaphthylene | 350000 | 1800 | ug/kg | 350 |
| Acenaphthene | 19000 | 1800 | ug/kg | 280 |
| Fluorene | 190000 | 1800 | ug/kg | 260 |
| Phenanthrene | 490000 E | 1800 | ug/kg | 210 |
| Anthracene | 140000 | 8700 | ug/kg | 310 |
| Fluoranthene | 350000 E | 1800 | ug/kg | 150 |
| Pyrene | 200000 | 1800 | ug/kg | 460 |
| Benzo (a) anthracene | 130000 | 1800 | ug/kg | 280 |
| Chrysene | 110000 | 1800 | ug/kg | 310 |
| Benzo (b) fluoranthene | 130000 | 1800 | ug/kg | 350 |
| Benzo (k) fluoranthene | ND | 1800 | ug/kg | 360 |
| Benzo (a) pyrene | 99000 | 1800 | ug/kg | 490 |
| Indeno (1, 2, 3-cd) pyrene | 46000 | 1800 | ug/kg | 96 |
| Dibenzo (a, h) anthracene | 14000 | 1800 | ug/kg | 390 |
| Benzo (ghi) perylene | 47000 | 1800 | ug/kg | 130 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18 DL

GC/MS Semivolatiles

Lot-Sample #....: C9F030296-002 Work Order #....: LD9FQ2AE Matrix.....: SOLID
 Date Sampled...: 06/02/09 10:30 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9156028 Analysis Time...: 16:38
 Dilution Factor: 4000 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|---------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 8900 J | 35000 | ug/kg | 5300 |
| 2-Methylnaphthalene | 22000 J | 35000 | ug/kg | 6900 |
| Naphthalene | 230000 | 35000 | ug/kg | 5100 |
| Acenaphthylene | 20000 J | 35000 | ug/kg | 7000 |
| Acenaphthene | ND | 35000 | ug/kg | 5600 |
| Fluorene | 11000 J | 35000 | ug/kg | 5300 |
| Phenanthrene | 28000 J | 35000 | ug/kg | 4200 |
| Anthracene | 8100 J | 170000 | ug/kg | 6100 |
| Fluoranthene | 19000 J | 35000 | ug/kg | 3000 |
| Pyrene | 11000 J | 35000 | ug/kg | 9300 |
| Benzo (a) anthracene | 7800 J | 35000 | ug/kg | 5600 |
| Chrysene | 6500 J | 35000 | ug/kg | 6100 |
| Benzo (b) fluoranthene | 7800 J | 35000 | ug/kg | 7100 |
| Benzo (k) fluoranthene | ND | 35000 | ug/kg | 7300 |
| Benzo (a) pyrene | ND | 35000 | ug/kg | 9800 |
| Indeno (1,2,3-cd) pyrene | 3200 J | 35000 | ug/kg | 1900 |
| Dibenzo (a,h) anthracene | ND | 35000 | ug/kg | 7700 |
| Benzo (ghi) perylene | 3200 J | 35000 | ug/kg | 2600 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F030296-003 | Work Order #....: LD9F11AC | Matrix.....: SOLID |
| Date Sampled....: 06/02/09 11:00 | Date Received...: 06/03/09 09:50 | MS Run #.....: 9156020 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9156028 | Analysis Time...: 11:59 | |
| Dilution Factor: 4.97 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 15 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 120 | 39 | ug/kg | 5.9 |
| 2-Methylnaphthalene | 290 | 39 | ug/kg | 7.7 |
| Naphthalene | 2000 | 39 | ug/kg | 5.7 |
| Acenaphthylene | 140 | 39 | ug/kg | 7.7 |
| Acenaphthene | 52 | 39 | ug/kg | 6.2 |
| Fluorene | 190 | 39 | ug/kg | 5.9 |
| Phenanthrene | 1100 | 39 | ug/kg | 4.6 |
| Anthracene | 260 | 190 | ug/kg | 6.8 |
| Fluoranthene | 1300 | 39 | ug/kg | 3.3 |
| Pyrene | 840 | 39 | ug/kg | 10 |
| Benzo (a) anthracene | 540 | 39 | ug/kg | 6.2 |
| Chrysene | 600 | 39 | ug/kg | 6.8 |
| Benzo (b) fluoranthene | 680 | 39 | ug/kg | 7.9 |
| Benzo (k) fluoranthene | ND | 39 | ug/kg | 8.1 |
| Benzo (a) pyrene | 390 | 39 | ug/kg | 11 |
| Indeno (1,2,3-cd) pyrene | 250 | 39 | ug/kg | 2.1 |
| Dibenzo (a,h) anthracene | 77 | 39 | ug/kg | 8.6 |
| Benzo (ghi) perylene | 280 | 39 | ug/kg | 2.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| | | |
| Nitrobenzene-d5 | 56 | (27 - 110) |
| Terphenyl-d14 | 55 | (21 - 130) |
| 2-Fluorobiphenyl | 58 | (28 - 108) |
| 2-Fluorophenol | 47 | (28 - 107) |
| Phenol-d5 | 58 | (30 - 112) |
| 2,4,6-Tribromophenol | 21 | (21 - 116) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030296

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B01-10 | 123* | 98 | 116* | 42 | 91 | 13 * | 03 |
| 02 | CT-SO-B01-18 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | CT-SO-B01-18 RE-1 DL | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | CT-SO-B01-14 | 56 | 55 | 58 | 47 | 58 | 21 | 00 |
| 05 | METHOD BLK. LEDFL1AA | 76 | 80 | 72 | 76 | 79 | 69 | 00 |
| 06 | LCS LEDFL1AC | 64 | 61 | 61 | 67 | 67 | 63 | 00 |
| 07 | CT-SO-B01-18 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | CT-SO-B01-18 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F050000

WO #: LEDFL1AC

BATCH: 9156028

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 227 | 68 | 39 - 105 | |
| 2-Chlorophenol | 333 | 205 | 62 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 197 | 59 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 206 | 62 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 195 | 59 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 208 | 62 | 43 - 110 | |
| Acenaphthene | 333 | 203 | 61 | 42 - 104 | |
| 4-Nitrophenol | 333 | 232 | 69 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 237 | 71 | 48 - 118 | |
| Pentachlorophenol | 333 | 189 | 57 | 18 - 125 | |
| Pyrene | 333 | 191 | 57 | 39 - 113 | |
| 4-Methylphenol | 667 | 426 | 64 | 43 - 107 | |
| Hexachloroethane | 333 | 200 | 60 | 40 - 102 | |
| Naphthalene | 333 | 198 | 59 | 42 - 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 192 | 58 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 197 | 59 | 40 - 117 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B01-18

Level: (low/med) LOW

Lot #: C9F030296

WO #: LD9FQ1AF

BATCH: 9156028

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 437 | 2300 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 437 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 437 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 437 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 437 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 437 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 437 | 19000 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 437 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 437 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 437 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 437 | 200000 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 874 | 3100 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 437 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 437 | 1100000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 437 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 437 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B01-18

Level: (low/med) LOW

Lot #: C9F030296

WO #: LD9FQ1AG

BATCH: 9156028

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|--------|
| | | | | | RPD | REC | |
| Phenol | 437 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 437 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 437 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 437 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 437 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 437 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 437 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 437 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 437 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 437 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 437 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 874 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 437 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 437 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 437 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 437 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEDFL1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0605016.

Lot Number: C9F030296

Date Analyzed: 06/05/09

Time Analyzed: 09:40

Matrix: SOLID

Date Extracted:06/05/09

GC Column: DB5 ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B01-10 | LD9FK1AC | N0605018. | 06/05/09 | 11:19 |
| 02 | CT-SO-B01-18 | LD9FQ1AE | N0605019. | 06/05/09 | 10:40 |
| 03 | CT-SO-B01-18 | LD9FQ1AF S | N0605020. | 06/05/09 | 15:58 |
| 04 | CT-SO-B01-18 | LD9FQ1AG D | N0605021. | 06/05/09 | 16:18 |
| 05 | CT-SO-B01-18 DL | LD9FQ2AE | N0605023. | 06/05/09 | 16:38 |
| 06 | CT-SO-B01-14 | LD9F11AC | N0605022. | 06/05/09 | 11:59 |
| 07 | CHECK SAMPLE | LEDFL1AC C | N0605017. | 06/05/09 | 10:20 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9F030296 Work Order #....: LEDFL1AA Matrix.....: SOLID
 MB Lot-Sample #: C9F050000-028
 Analysis Date...: 06/05/09 Prep Date.....: 06/05/09 Analysis Time...: 09:40
 Dilution Factor: 0.5 Prep Batch #....: 9156028 Final Wgt/Vol...: 0.5 mL
 Initial Wgt/Vol: 30 g Instrument ID...: 733
 Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 76 | (27 - 110) |
| Terphenyl-d14 | 80 | (21 - 130) |
| 2-Fluorobiphenyl | 72 | (28 - 108) |
| 2-Fluorophenol | 76 | (28 - 107) |
| Phenol-d5 | 79 | (30 - 112) |
| 2,4,6-Tribromophenol | 69 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F030296
 Lab File ID (Standard): N06050CC Date Analyzed: 06/05/09
 Instrument ID: 733 Time Analyzed: 0827

| | IS1 (DCB) | RT # | IS2 (NPT) | RT # | IS3 (ANT) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 142966 | 4.40 | 569304 | 5.36 | 346984 | 6.70 |
| UPPER LIMIT | 285932 | 4.90 | 1138608 | 5.86 | 693968 | 7.20 |
| LOWER LIMIT | 71483 | 3.90 | 284652 | 4.86 | 173492 | 6.20 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 129808 | 4.40 | 525478 | 5.36 | 321424 | 6.71 |
| 02 INTRA-LAB CH | 115931 | 4.40 | 470750 | 5.37 | 285064 | 6.70 |
| 03 CT-SO-B01-18 | 118618 | 4.40 | 468499 | 5.38 | 302617 | 6.70 |
| 04 CT-SO-B01-10 | 105051 | 4.41 | 423748 | 5.37 | 269128 | 6.70 |
| 05 CT-SO-B01-14 | 115855 | 4.40 | 470836 | 5.37 | 281859 | 6.71 |
| 06 CT-SO-B01-18 | 110444 | 4.40 | 433800 | 5.37 | 261682 | 6.70 |
| 07 CT-SO-B01-18 | 116243 | 4.40 | 468105 | 5.37 | 275945 | 6.70 |
| 08 CT-SO-B01-18 | 118301 | 4.40 | 472731 | 5.37 | 277928 | 6.70 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F030296
 Lab File ID (Standard): N06050CC Date Analyzed: 06/05/09
 Instrument ID: 733 Time Analyzed: 0827

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 577648 | 7.84 | 448588 | 9.87 | 330542 | 11.16 |
| UPPER LIMIT | 1155296 | 8.34 | 897176 | 10.37 | 661084 | 11.66 |
| LOWER LIMIT | 288824 | 7.34 | 224294 | 9.37 | 165271 | 10.66 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 537948 | 7.84 | 416880 | 9.87 | 300029 | 11.16 |
| 02 INTRA-LAB CH | 496436 | 7.83 | 417484 | 9.86 | 302666 | 11.15 |
| 03 CT-SO-B01-18 | 507605 | 7.84 | 435880 | 9.87 | 326830 | 11.16 |
| 04 CT-SO-B01-10 | 443469 | 7.84 | 577816 | 9.87 | 510311 | 11.18 |
| 05 CT-SO-B01-14 | 486349 | 7.84 | 449197 | 9.87 | 372924 | 11.16 |
| 06 CT-SO-B01-18 | 444357 | 7.84 | 384047 | 9.87 | 323683 | 11.17 |
| 07 CT-SO-B01-18 | 464203 | 7.84 | 405651 | 9.87 | 326732 | 11.16 |
| 08 CT-SO-B01-18 | 473757 | 7.84 | 382963 | 9.87 | 324288 | 11.16 |
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IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

TOTAL Metals

Lot-Sample #...: C9F030296-001

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

% Moisture.....: 10

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------------|---------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9155113 | | | | | | |
| Silver | 1.8 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0067 | |
| Arsenic | 11.4 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.046 | |
| Beryllium | 0.54 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.010 | |
| Cadmium | 20.8 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.025 | |
| Chromium | 1220 J | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.022 | |
| Copper | 95.8 J | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.024 | |
| Nickel | 31.0 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.019 | |
| Lead | 3630 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0095 | |
| Antimony | 3.4 | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0092 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

TOTAL Metals

Lot-Sample #....: C9F030296-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.59 B | 1.4 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.11 | |
| Thallium | 0.52 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0056 | |
| Zinc | 3140 | 1.4 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.033 | |

Prep Batch #....: 9155167

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.28 | 0.018 | mg/kg | SW846 7471A | 06/04/09 | LD9FK1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 13:46 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9155090 | MDL.....: 0.0061 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

TOTAL Metals

Lot-Sample #....: C9F030296-002

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

% Moisture.....: 24

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9155113 | | | | | | |
| Silver | 0.38 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0079 | |
| Arsenic | 7.7 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.054 | |
| Beryllium | 0.86 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.012 | |
| Cadmium | 2.5 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.030 | |
| Chromium | 468 J | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AT |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.026 | |
| Copper | 59.3 J | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AW |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.028 | |
| Nickel | 67.4 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A1 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.022 | |
| Lead | 555 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A4 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.011 | |
| Antimony | 1.0 E | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A7 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.011 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

TOTAL Metals

Lot-Sample #....: C9F030296-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.0 B | 1.6 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.13 | |
| Thallium | 0.33 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0066 | |
| Zinc | 581 | 1.6 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.038 | |

Prep Batch #....: 9155167

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.36 | 0.022 | mg/kg | SW846 7471A | 06/04/09 | LD9FQ1CP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 13:39 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9155090 | MDL.....: 0.0071 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

TOTAL Metals

Lot-Sample #... C9F030296-003

Matrix.....: SOLID

Date Sampled... 06/02/09

Date Received... 06/03/09

% Moisture.....: 15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------------|---------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #... 9155113 | | | | | | |
| Silver | 0.53 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0070 | |
| Arsenic | 6.1 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.048 | |
| Beryllium | 0.47 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.011 | |
| Cadmium | 4.4 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.027 | |
| Chromium | 1280 J | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.023 | |
| Copper | 64.3 J | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.025 | |
| Nickel | 26.8 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.020 | |
| Lead | 1690 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.010 | |
| Antimony | 1.6 | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0097 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

TOTAL Metals

Lot-Sample #....: C9F030296-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------------|-------------------------|--------------|------------------------|-------------------------------|-----------------|
| Selenium | 0.32 B | 1.5 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AM |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.12 | |
| Thallium | 0.37 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AN |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0059 | |
| Zinc | 829 | 1.5 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AP |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.034 | |

Prep Batch #....: 9155167

| | | | | | | |
|----------------|-------------|--------------------------|--------------|------------------------|-------------------------|-----------------|
| Mercury | 0.34 | 0.019 | mg/kg | SW846 7471A | 06/04/09 | LD9F11AR |
| | | Dilution Factor: 0.5 | | Analysis Time..: 13:44 | Analyst ID.....: 403938 | |
| | | Instrument ID..: HGHYDRA | | MS Run #.....: 9155090 | MDL.....: 0.0064 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|----------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| MB Lot-Sample #: C9F040000-113 Prep Batch #...: 9155113 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | 0.065 B | 0.10 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | 0.0086 B | 0.10 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:20 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F030296

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|--------|--------------------|-------|------------|-------------------------------|-----------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD96V1AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:20 Analyst ID.....: 400149 Instrument ID...: ICP | | | | | | |

MB Lot-Sample #: C9F040000-167 Prep Batch #....: 9155167

| | | | | | | |
|---|----|-------|-------|-------------|----------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/04/09 | LD99E1AA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 13:36 Analyst ID.....: 403938 Instrument ID...: HGH | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F040000-113 Prep Batch #... : 9155113 | | | | | |
| Arsenic | 88 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AP | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 94 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AQ | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 92 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AR | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 104 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AT | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 102 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AU | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 102 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AV | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 102 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AW | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 90 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1AX | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 85 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1A0 | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 98 | (80 - 120) | SW846 6020 | 06/04-06/07/09 LD96V1A1 | |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------------------|--------------------|-------------|-------------------------------|--------------|
| Zinc | 90 | (80 - 120) | SW846 6020 | 06/04-06/07/09 | LD96V1A2 |
| Dilution Factor: 0.5 Analysis Time..: 20:24 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Silver | 99 | (80 - 120) | SW846 6020 | 06/04-06/07/09 | LD96V1A3 |
| Dilution Factor: 0.5 Analysis Time..: 20:24 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| LCS Lot-Sample#: C9F040000-167 Prep Batch #...: 9155167 | | | | | |
| Mercury | 98 | (80 - 120) | SW846 7471A | 06/04/09 | LD99E1AC |
| Dilution Factor: 0.5 Analysis Time..: 13:37 Analyst ID.....: 403938 | | | | | |
| Instrument ID...: HGHYDRA | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F040000-113 Prep Batch #...: 9155113 | | | | | | | |
| Arsenic | 2.00 | 1.76 | mg/kg | 88 | SW846 6020 | 06/04-06/07/09 | LD96V1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.34 | mg/kg | 94 | SW846 6020 | 06/04-06/07/09 | LD96V1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.30 | mg/kg | 92 | SW846 6020 | 06/04-06/07/09 | LD96V1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.4 | mg/kg | 104 | SW846 6020 | 06/04-06/07/09 | LD96V1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 12.7 | mg/kg | 102 | SW846 6020 | 06/04-06/07/09 | LD96V1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 25.4 | mg/kg | 102 | SW846 6020 | 06/04-06/07/09 | LD96V1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 1.02 | mg/kg | 102 | SW846 6020 | 06/04-06/07/09 | LD96V1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 22.6 | mg/kg | 90 | SW846 6020 | 06/04-06/07/09 | LD96V1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.423 | mg/kg | 85 | SW846 6020 | 06/04-06/07/09 | LD96V1A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Thallium | 2.50 | 2.45 | mg/kg | 98 | SW846 6020 | 06/04-06/07/09 | LD96V1A1 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F030296

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|-------------------|-------------|-------------------------------|-----------------|
| Zinc | 25.0 | 22.5 | mg/kg | 90 | SW846 6020 | 06/04-06/07/09 | LD96V1A2 |
| Dilution Factor: 0.5 Analysis Time...: 20:24 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.47 | mg/kg | 99 | SW846 6020 | 06/04-06/07/09 | LD96V1A3 |
| Dilution Factor: 0.5 Analysis Time...: 20:24 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| LCS Lot-Sample#: C9F040000-167 Prep Batch #....: 9155167 | | | | | | | |
| Mercury | 0.208 | 0.205 | mg/kg | 98 | SW846 7471A | 06/04/09 | LD99E1AC |
| Dilution Factor: 0.5 Analysis Time...: 13:37 Analyst ID.....: 403938 | | | | | | | |
| Instrument ID...: HGHYDRA | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9F030296-002 Prep Batch #...: 9155113 | | | | | | |
| | | | | | % Moisture.....: 24 | |
| Antimony | 57 N | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A8 |
| | 56 N | (75 - 125) | 1.8 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1A9 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Arsenic | 132 N | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AJ |
| | 97 | (75 - 125) | 8.6 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1AK |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Beryllium | 86 | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AM |
| | 93 | (75 - 125) | 5.9 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1AN |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Cadmium | 117 | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AQ |
| | 93 | (75 - 125) | 13 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1AR |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Chromium | NC | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AU |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1AV |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Copper | 110 | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AX |
| | 70 N | (75 - 125) | 8.8 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1A0 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A5 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1A6 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| Nickel | 62 N | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A2 |
| | 19 N | (75 - 125) | 17 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1A3 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Selenium | 133 N | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CC |
| | 137 N | (75 - 125) | 1.2 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1CD |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Silver | 92 | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CM |
| | 91 | (75 - 125) | 1.2 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1CN |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Thallium | 91 | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CF |
| | 96 | (75 - 125) | 4.2 (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1CG |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |
| Zinc | NC | (75 - 125) | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CJ |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/04-06/07/09 | LD9FQ1CK |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9155058 | | | | | | |

MS Lot-Sample #: C9F030296-002 Prep Batch #...: 9155167

% Moisture.....: 24

| | | | | | | |
|---|------|------------|------------|-------------|----------|----------|
| Mercury | 61 N | (75 - 125) | | SW846 7471A | 06/04/09 | LD9FQ1CQ |
| | 51 N | (75 - 125) | 2.6 (0-20) | SW846 7471A | 06/04/09 | LD9FQ1CR |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 13:41 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | |
| MS Run #.....: 9155090 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F030296-002 Prep Batch #...: 9155113

% Moisture.....: 24

Antimony

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 1.0 | 32.8 | 19.9 N | mg/kg | 57 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A8 |
| 1.0 | 32.8 | 19.5 N | mg/kg | 56 | 1.8 | SW846 6020 | 06/04-06/07/09 | LD9FQ1A9 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

Arsenic

| | | | | | | | | |
|--|------|--------|-------|-----|-----|------------|----------------|----------|
| 7.7 | 2.62 | 11.2 N | mg/kg | 132 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AJ |
| 7.7 | 2.62 | 10.3 | mg/kg | 97 | 8.6 | SW846 6020 | 06/04-06/07/09 | LD9FQ1AK |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

Beryllium

| | | | | | | | | |
|--|------|------|-------|----|-----|------------|----------------|----------|
| 0.86 | 3.28 | 3.69 | mg/kg | 86 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AM |
| 0.86 | 3.28 | 3.91 | mg/kg | 93 | 5.9 | SW846 6020 | 06/04-06/07/09 | LD9FQ1AN |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

Cadmium

| | | | | | | | | |
|--|------|------|-------|-----|----|------------|----------------|----------|
| 2.5 | 3.28 | 6.28 | mg/kg | 117 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AQ |
| 2.5 | 3.28 | 5.50 | mg/kg | 93 | 13 | SW846 6020 | 06/04-06/07/09 | LD9FQ1AR |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

Chromium

| | | | | | | | | |
|--|------|--------|-------|--|--|------------|----------------|----------|
| 468 | 13.1 | 533 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AU |
| 468 | 13.1 | 479 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AV |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

Copper

| | | | | | | | | |
|--|------|--------|-------|-----|-----|------------|----------------|----------|
| 59.3 | 16.4 | 77.4 | mg/kg | 110 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1AX |
| 59.3 | 16.4 | 70.9 N | mg/kg | 70 | 8.8 | SW846 6020 | 06/04-06/07/09 | LD9FQ1A0 |
| Dilution Factor: 2.5 | | | | | | | | |
| Analysis Time...: 20:55 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9155058 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVR | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|-------------------------|-------|--------------------------|-----|-------------------------|----------------------------|--------------|
| Lead | | | | | | | | | |
| | 555 | 1.31 | 692 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A5 |
| | 555 | 1.31 | 563 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A6 |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |
| Nickel | | | | | | | | | |
| | 67.4 | 32.8 | 87.5 N | mg/kg | 62 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1A2 |
| | 67.4 | 32.8 | 73.7 N | mg/kg | 19 | 17 | SW846 6020 | 06/04-06/07/09 | LD9FQ1A3 |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |
| Selenium | | | | | | | | | |
| | 1.0 | 0.656 | 1.90 N | mg/kg | 133 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CC |
| | 1.0 | 0.656 | 1.93 N | mg/kg | 137 | 1.2 | SW846 6020 | 06/04-06/07/09 | LD9FQ1CD |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |
| Silver | | | | | | | | | |
| | 0.38 | 3.28 | 3.41 | mg/kg | 92 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CM |
| | 0.38 | 3.28 | 3.37 | mg/kg | 91 | 1.2 | SW846 6020 | 06/04-06/07/09 | LD9FQ1CN |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.33 | 3.28 | 3.32 | mg/kg | 91 | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CF |
| | 0.33 | 3.28 | 3.47 | mg/kg | 96 | 4.2 | SW846 6020 | 06/04-06/07/09 | LD9FQ1CG |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |
| Zinc | | | | | | | | | |
| | 581 | 32.8 | 643 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CJ |
| | 581 | 32.8 | 588 NC | mg/kg | | | SW846 6020 | 06/04-06/07/09 | LD9FQ1CK |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:55 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9155058 | | | | | | |

MS Lot-Sample #: C9F030296-002 Prep Batch #....: 9155167

% Moisture.....: 24

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F030296

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------------|-----------|---------------|---------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 0.36 | 0.109 | 0.424 | N mg/kg | 61 | | SW846 7471A | 06/04/09 | LD9FQ1CQ |
| | 0.36 | 0.109 | 0.413 | N mg/kg | 51 | 2.6 | SW846 7471A | 06/04/09 | LD9FQ1CR |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 13:41 | | | | | | | | | |
| Instrument ID...: HGHYDRA | | | | | | | | | |
| Analyst ID.....: 403938 | | | | | | | | | |
| MS Run #.....: 9155090 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F030296

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B01-10 | C9F030296 001 | LD9FK1AT | 9.1 | mg/kg | 0.096 | 0.56 | 1 | 6/8/2009 - 6/8/2009 16:53 | 9159184 |
| CT-SO-B01-18 | C9F030296 002 | LD9FQ1CT | 5.5 | mg/kg | 0.11 | 0.66 | 1 | 6/8/2009 - 6/8/2009 16:53 | 9159184 |
| CT-SO-B01-14 | C9F030296 003 | LD9F11AT | 4.4 | mg/kg | 0.10 | 0.59 | 1 | 6/8/2009 - 6/8/2009 15:16 | 9159184 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F030296

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B01-10 | C9F030296 001 | LD9FK1AA | 89.7 | % | 0.0 | 1.0 | 1 | 6/4/2009 - 6/5/2009 08:36 | 9155090 |
| CT-SO-B01-18 | C9F030296 002 | LD9FQ1AA | 76.3 | % | 0.0 | 1.0 | 1 | 6/4/2009 - 6/5/2009 08:36 | 9155090 |
| CT-SO-B01-14 | C9F030296 003 | LD9F11AA | 85.2 | % | 0.0 | 1.0 | 1 | 6/4/2009 - 6/5/2009 08:36 | 9155090 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F030296

Matrix: SOLID

Date/Time Received: 5/29/2009 2:25:00PM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F080000184B | 184 MB | LEHF01AA | ND | mg/kg | 0.50 | 6/8/2009 - 6/8/2009 15:04 | 9159184 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F030296

Matrix: SOLID

Date/Time Received: 6/3/2009 9:50:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| CT-SO-B01-18 DUP | 002 DUP | LD9FQ1C4 | 77.9 | % | 1.0 | 6/4/2009 - 6/5/2009 08:36 | 9155090 | 2.1 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F080000
 Date/Time Received: 5/29/2009 2:25:00PM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LEHF01AC | 87 | 38 - 162 | 6/8/2009 - 6/8/2009 15:04 | 9159184 | |
| CT-SO-B01-18 | MS | LD9FQ1CU | 124 N | 85 - 115 | 6/8/2009 - 6/8/2009 16:53 | 9159184 | 17 / 20 |
| CT-SO-B01-18 | MSD | LD9FQ1CV | 91 | 85 - 115 | 6/8/2009 - 6/8/2009 16:53 | 9159184 | 17 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F030296

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B01-10 | C9F030296-001 | Soil |
| 2 | CT-SO-B01-18 | C9F030296-002 | Soil |
| 2MS | CT-SO-B01-18MS | C9F030296-002MS | Soil |
| 2MSD | CT-SO-B01-18MSD | C9F030296-002MSD | Soil |
| 3 | CT-SO-B01-14 | C9F030296-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| Reference | Cyanide | 124%/Ok/Ok | K | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method:

SW846 9012A

Client Name: Maryland Environmental Service

Lot Number:

C9F030296

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B01-10 | C9F030296 001 | LD9FK1AT | K 9.1 | mg/kg | 0.096 | 0.56 | 1 | 6/8/2009 - 6/8/2009 16:53 | 9159184 |
| CT-SO-B01-18 | C9F030296 002 | LD9FQ1CT | K 5.5 | mg/kg | 0.11 | 0.60 | 1 | 6/8/2009 - 6/8/2009 16:53 | 9159184 |
| CT-SO-B01-14 | C9F030296 003 | LD9F11AT | K 4.4 | mg/kg | 0.10 | 0.59 | 1 | 6/8/2009 - 6/8/2009 15:16 | 9159184 |

JW 8/12/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F030296

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B01-10 | C9F030296-001 | Soil |
| 2 | CT-SO-B01-18 | C9F030296-002 | Soil |
| 2MS | CT-SO-B01-18MS | C9F030296-002MS | Soil |
| 2MSD | CT-SO-B01-18MSD | C9F030296-002MSD | Soil |
| 3 | CT-SO-B01-14 | C9F030296-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|-----------------------------|
| 2 | Antimony | 57%/56%/Ok | None | Already qualified due to SD |
| | Arsenic | 132%/Ok/Ok | K | All samples |
| | Copper | Ok/70%/Ok | L/UL | All samples |
| | Nickel | 62%/19%/Ok | L/UL | All samples |
| | Selenium | 133%/137%/Ok | K | All samples |
| | Mercury | 61%/51%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 2 | Antimony | 27.8% | J | All samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

TOTAL Metals

Lot-Sample #...: C9F030296-001

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

% Moisture.....: 10

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9155113 | | | | | | |
| Silver | 1.8 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0067 | |
| Arsenic | 11.4 K | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.046 | |
| Beryllium | 0.54 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.010 | |
| Cadmium | 20.8 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.025 | |
| Chromium | 1220 / | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.022 | |
| Copper | 95.8 / L | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.024 | |
| Nickel | 31.0 L | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.019 | |
| Lead | 3630 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0095 | |
| Antimony | 3.4 J | 0.56 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0092 | |

(Continued on next page)

lew
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

TOTAL Metals

Lot-Sample #...: C9F030296-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.59 <i>BK</i> | 1.4 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.11 | |
| Thallium | 0.52 | 0.28 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0056 | |
| Zinc | 3140 | 1.4 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FK1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:28 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.033 | |
| Prep Batch #...: 9155167 | | | | | | |
| Mercury | 0.28 <i>L</i> | 0.018 | mg/kg | SW846 7471A | 06/04/09 | LD9FK1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 13:46 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9155090 | MDL.....: 0.0061 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

I Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

lw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

TOTAL Metals

Lot-Sample #...: C9F030296-002

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #...: 9155113 | | | | | | |
| Silver | 0.38 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.0079 |
| Arsenic | 7.7 K | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.054 |
| Beryllium | 0.86 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.012 |
| Cadmium | 2.5 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.030 |
| Chromium | 468 J | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AT |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.026 |
| Copper | 59.3 J L | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1AW |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.028 |
| Nickel | 67.4 L | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A1 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.022 |
| Lead | 555 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A4 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.011 |
| Antimony | 1.0 J J | 0.66 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1A7 |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | | MDL.....: 0.011 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

TOTAL Metals

Lot-Sample #....: C9F030296-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 1.0 <i>PK</i> | 1.6 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CA |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.13 | |
| Thallium | 0.33 | 0.33 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CB |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0066 | |
| Zinc | 581 | 1.6 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9FQ1CH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.038 | |

Prep Batch #....: 9155167

| | | | | | | |
|---------|---------------|--------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.36 <i>L</i> | 0.022 | mg/kg | SW846 7471A | 06/04/09 | LD9FQ1CP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 13:39 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHDRA | | MS Run #.....: 9155090 | MDL.....: 0.0071 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

B Estimated result. Result is less than RL.

dw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

TOTAL Metals

Lot-Sample #...: C9F030296-003

Matrix.....: SOLID

Date Sampled...: 06/02/09

Date Received...: 06/03/09

% Moisture.....: 15

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|--------------------------|----------|--------------------------|-------|-------------------------|-------------------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Prep Batch #...: 9155113 | | | | | | |
| Silver | 0.53 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0070 | |
| Arsenic | 6.1 K | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.048 | |
| Beryllium | 0.47 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.011 | |
| Cadmium | 4.4 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.027 | |
| Chromium | 1280 J | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.023 | |
| Copper | 64.3 J L | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.025 | |
| Nickel | 26.8 L | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.020 | |
| Lead | 1690 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.010 | |
| Antimony | 1.6 J | 0.59 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0097 | |

(Continued on next page)

NW
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

TOTAL Metals

Lot-Sample #...: C9F030296-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|-------------------------|-------|------------------------|-------------------------------|-----------------|
| Selenium | 0.32 <i>B/K</i> | 1.5 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AM |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.12 | |
| Thallium | 0.37 | 0.29 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AN |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.0059 | |
| Zinc | 829 | 1.5 | mg/kg | SW846 6020 | 06/04-06/07/09 | LD9F11AP |
| | | Dilution Factor: 2.5 | | Analysis Time..: 21:04 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9155058 | MDL.....: 0.034 | |
| Prep Batch #...: 9155167 | | | | | | |
| Mercury | 0.34 <i>L</i> | 0.019 | mg/kg | SW846 7471A | 06/04/09 | LD9F11AR |
| | | Dilution Factor: 0.5 | | Analysis Time..: 13:44 | Analyst ID.....: 403938 | |
| | | Instrument ID..: HGHDRA | | MS Run #.....: 9155090 | MDL.....: 0.0064 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

uw
8/12/09

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F030296

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B01-10 | C9F030296-001 | Soil |
| 2 | CT-SO-B01-18 | C9F030296-002 | Soil |
| 2MS | CT-SO-B01-18MS | C9F030296-002MS | Soil |
| 2MSD | CT-SO-B01-18MSD | C9F030296-002MSD | Soil |
| 2DL | CT-SO-B01-18DL | C9F030296-002DL | Soil |
| 3 | CT-SO-B01-14 | C9F030296-003 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. Surrogate recovery deficiencies which required qualifiers are summarized below.

| Sample ID | Surrogate | %R | Qualifier |
|-----------|------------------|------|-------------------|
| 1 | Nitrobenzene-d5 | 123% | J - All positives |
| | 2-Fluorobiphenyl | 116% | J - All positives |

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID# 2 exhibited high concentrations of target compounds which were flagged (E) by the laboratory. The laboratory diluted and reanalyzed this sample. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Semivolatiles

Lot-Sample #....: C9F030296-001 Work Order #....: LD9FK1AC Matrix.....: SOLID
 Date Sampled...: 06/02/09 09:15 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9156028 Analysis Time...: 11:19
 Dilution Factor: 5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 10 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|-----------------|-------|-----|
| 1-Methylnaphthalene | 230 J | 37 | ug/kg | 5.6 |
| 2-Methylnaphthalene | 360 | 37 | ug/kg | 7.3 |
| Naphthalene | 930 | 37 | ug/kg | 5.4 |
| Acenaphthylene | 86 | 37 | ug/kg | 7.4 |
| Acenaphthene | 47 | 37 | ug/kg | 6.0 |
| Fluorene | 110 | 37 | ug/kg | 5.6 |
| Phenanthrene | 2000 | 37 | ug/kg | 4.4 |
| Anthracene | 210 | 180 | ug/kg | 6.5 |
| Fluoranthene | 2600 | 37 | ug/kg | 3.1 |
| Pyrene | 1400 | 37 | ug/kg | 9.9 |
| Benzo (a) anthracene | 770 | 37 | ug/kg | 5.9 |
| Chrysene | 1100 | 37 | ug/kg | 6.5 |
| Benzo (b) fluoranthene | 1000 | 37 | ug/kg | 7.5 |
| Benzo (k) fluoranthene | ND | 37 | ug/kg | 7.7 |
| Benzo (a) pyrene | 470 | 37 | ug/kg | 10 |
| Indeno (1,2,3-cd) pyrene | 330 | 37 | ug/kg | 2.0 |
| Dibenzo (a,h) anthracene | 120 | 37 | ug/kg | 8.2 |
| Benzo (ghi) perylene | 410 | 37 | ug/kg | 2.7 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | 123 * | (27 - 110) |
| Terphenyl-d14 | 98 | (21 - 130) |
| 2-Fluorobiphenyl | 116 * | (28 - 108) |
| 2-Fluorophenol | 42 | (28 - 107) |
| Phenol-d5 | 91 | (30 - 112) |
| 2,4,6-Tribromophenol | 13 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Semivolatiles

Lot-Sample #...: C9F030296-002 Work Order #...: LD9FQ1AE Matrix.....: SOLID
 Date Sampled...: 06/02/09 10:30 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #...: 9156028 Analysis Time...: 10:40
 Dilution Factor: 200 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|-----------------------------|-----------------------|-------|----------|
| 1-Methylnaphthalene | 160000 | 1800 | ug/kg | 260 |
| 2-Methylnaphthalene | 22000J 410000 E | 35000 1800 | ug/kg | 340 6900 |
| Naphthalene | 230000 1100000 E | 35000 1800 | ug/kg | 250 5100 |
| Acenaphthylene | 350000 | 1800 | ug/kg | 350 |
| Acenaphthene | 19000 | 1800 | ug/kg | 280 |
| Fluorene | 190000 | 1800 | ug/kg | 260 |
| Phenanthrene | 28000J 490000 E | 35000 1800 | ug/kg | 210 4200 |
| Anthracene | 140000 | 8700 | ug/kg | 310 |
| Fluoranthene | 19000J 350000 E | 35000 1800 | ug/kg | 150 3000 |
| Pyrene | 200000 | 1800 | ug/kg | 460 |
| Benzo (a) anthracene | 130000 | 1800 | ug/kg | 280 |
| Chrysene | 110000 | 1800 | ug/kg | 310 |
| Benzo (b) fluoranthene | 130000 | 1800 | ug/kg | 350 |
| Benzo (k) fluoranthene | ND | 1800 | ug/kg | 360 |
| Benzo (a) pyrene | 99000 | 1800 | ug/kg | 490 |
| Indeno (1,2,3-cd) pyrene | 46000 | 1800 | ug/kg | 96 |
| Dibenzo (a,h) anthracene | 14000 | 1800 | ug/kg | 390 |
| Benzo (ghi) perylene | 47000 | 1800 | ug/kg | 130 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

- NC The recovery and/or RPD were not calculated.
- DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
- Results and reporting limits have been adjusted for dry weight.
- E Estimated result. Result concentration exceeds the calibration range.

EW
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18 ^{DL}

GC/MS Semivolatiles

Use original

Lot-Sample #....: C9F030296-002 Work Order #....: LD9FQ2AE Matrix.....: SOLID
 Date Sampled....: 06/02/09 10:30 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9156028 Analysis Time...: 16:38
 Dilution Factor: 4000 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|------------------|-----------------|-------|------|
| 1-Methylnaphthalene | 8900 J | 35000 | ug/kg | 5300 |
| 2-Methylnaphthalene | 22000 J | 35000 | ug/kg | 6900 |
| Naphthalene | 230000 | 35000 | ug/kg | 5100 |
| Acenaphthylene | 20000 J | 35000 | ug/kg | 7000 |
| Acenaphthene | ND | 35000 | ug/kg | 5600 |
| Fluorene | 11000 J | 35000 | ug/kg | 5300 |
| Phenanthrene | 28000 J | 35000 | ug/kg | 4200 |
| Anthracene | 8100 J | 170000 | ug/kg | 6100 |
| Fluoranthene | 19000 J | 35000 | ug/kg | 5000 |
| Pyrene | 11000 J | 35000 | ug/kg | 9300 |
| Benzo (a) anthracene | 7800 J | 35000 | ug/kg | 5600 |
| Chrysene | 6500 J | 35000 | ug/kg | 6100 |
| Benzo (b) fluoranthene | 7800 J | 35000 | ug/kg | 7100 |
| Benzo (k) fluoranthene | ND | 35000 | ug/kg | 7300 |
| Benzo (a) pyrene | ND | 35000 | ug/kg | 9800 |
| Indeno (1,2,3-cd) pyrene | 3200 J | 35000 | ug/kg | 1900 |
| Dibenzo (a,h) anthracene | ND | 35000 | ug/kg | 7700 |
| Benzo (ghi) perylene | 3200 J | 35000 | ug/kg | 2600 |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | | |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) | | |
| Terphenyl-d14 | NC, DIL | (21 - 130) | | |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) | | |
| 2-Fluorophenol | NC, DIL | (28 - 107) | | |
| Phenol-d5 | NC, DIL | (30 - 112) | | |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) | | |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw 8/12/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Semivolatiles

Lot-Sample #....: C9F030296-003 Work Order #....: LD9F11AC Matrix.....: SOLID
 Date Sampled....: 06/02/09 11:00 Date Received...: 06/03/09 09:50 MS Run #.....: 9156020
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9156028 Analysis Time...: 11:59
 Dilution Factor: 4.97 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 15 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 120 | 39 | ug/kg | 5.9 |
| 2-Methylnaphthalene | 290 | 39 | ug/kg | 7.7 |
| Naphthalene | 2000 | 39 | ug/kg | 5.7 |
| Acenaphthylene | 140 | 39 | ug/kg | 7.7 |
| Acenaphthene | 52 | 39 | ug/kg | 6.2 |
| Fluorene | 190 | 39 | ug/kg | 5.9 |
| Phenanthrene | 1100 | 39 | ug/kg | 4.6 |
| Anthracene | 260 | 190 | ug/kg | 6.8 |
| Fluoranthene | 1300 | 39 | ug/kg | 3.3 |
| Pyrene | 840 | 39 | ug/kg | 10 |
| Benzo (a) anthracene | 540 | 39 | ug/kg | 6.2 |
| Chrysene | 600 | 39 | ug/kg | 6.8 |
| Benzo (b) fluoranthene | 680 | 39 | ug/kg | 7.9 |
| Benzo (k) fluoranthene | ND | 39 | ug/kg | 8.1 |
| Benzo (a) pyrene | 390 | 39 | ug/kg | 11 |
| Indeno (1,2,3-cd) pyrene | 250 | 39 | ug/kg | 2.1 |
| Dibenzo (a,h) anthracene | 77 | 39 | ug/kg | 8.6 |
| Benzo (ghi) perylene | 280 | 39 | ug/kg | 2.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 56 | (27 - 110) |
| Terphenyl-d14 | 55 | (21 - 130) |
| 2-Fluorobiphenyl | 58 | (28 - 108) |
| 2-Fluorophenol | 47 | (28 - 107) |
| Phenol-d5 | 58 | (30 - 112) |
| 2,4,6-Tribromophenol | 21 | (21 - 116) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

hw
8/12/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F030296

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B01-10 | C9F030296-001 | Soil |
| 2 | CT-SO-B01-18 | C9F030296-002 | Soil |
| 2MS | CT-SO-B01-18MS | C9F030296-002MS | Soil |
| 2MSD | CT-SO-B01-18MSD | C9F030296-002MSD | Soil |
| 3 | CT-SO-B01-14 | C9F030296-003 | Soil |
| 4 | TRIP BLANK | C9F030296-004 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-3 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------|----------------|-----------|-------------------------------|
| 06/04/09 | Chloroethane | 98.2% | J/UJ | 4 |
| | Acrolein | 88.7%/0.041RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 65.3% | J/UJ | 4 |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/05/09 | 2-Butanone | 27.0% | None | All ND |
| | 1,1,2,2-Tetrachloroethane | 30.5% | None | All ND |
| | Acrolein | 27.5%/0.028 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier |
|------------------|--------------------|---------------|-----------|
| 2 | Benzene | 9.6%/3.1%/Ok | L/R |
| | 1,1-Dichloroethene | 54%/49%/Ok | L/UL |
| | Toluene | 0%/0%/Ok | L/R |
| | Trichloroethene | 66%/63%/Ok | L/UL |

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target analytes. No qualifiers were required.

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F030296-001 | Work Order #....: LD9FK1AV | Matrix.....: SOLID |
| Date Sampled...: 06/02/09 | Date Received...: 06/03/09 | MS Run #.....: 9158003 |
| Prep Date.....: 06/05/09 | Analysis Date...: 06/05/09 | |
| Prep Batch #....: 9158011 | Analysis Time...: 12:45 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 4.99 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 10 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 5600 | ug/kg | 880 |
| Acrylonitrile | ND | 5600 | ug/kg | 450 |
| Benzene | 490 | 280 | ug/kg | 55 |
| Bromodichloromethane | ND | 280 | ug/kg | 52 |
| Bromoform | ND | 280 | ug/kg | 60 |
| Bromomethane | ND | 280 | ug/kg | 88 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 60 |
| Carbon tetrachloride | ND | 280 | ug/kg | 60 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 560 | ug/kg | 62 |
| Chloroform | ND | 280 | ug/kg | 56 |
| Chloromethane | ND | 280 | ug/kg | 52 |
| Dibromochloromethane | ND | 280 | ug/kg | 36 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 38 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 28 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 42 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 35 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 56 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 53 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 59 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 71 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 40 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 32 |
| Ethylbenzene | 54 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 61 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 52 |
| Tetrachloroethene | ND | 280 | ug/kg | 46 |
| Toluene | 380 | 280 | ug/kg | 47 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 57 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 65 |
| Trichloroethene | ND | 280 | ug/kg | 45 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 62 |
| Vinyl chloride | ND | 280 | ug/kg | 72 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B01-10

GC/MS Volatiles

Lot-Sample #...: C9F030296-001 Work Order #...: LD9FK1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 95 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

HW
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Volatiles

Lot-Sample #....: C9F030296-002 Work Order #....: LD9FQ1C1 Matrix.....: SOLID
 Date Sampled....: 06/02/09 Date Received...: 06/03/09 MS Run #.....: 9158003
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #....: 9158011 Analysis Time...: 13:09
 Dilution Factor: 4.84 Initial Wgt/Vol.: 5.16 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 24 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|------------------|--------------------|-------|------|
| Acrolein | ND R | 32000 | ug/kg | 5000 |
| Acrylonitrile | ND | 32000 | ug/kg | 2600 |
| Benzene | 15000 L | 1600 | ug/kg | 310 |
| Bromodichloromethane | ND | 1600 | ug/kg | 300 |
| Bromoform | ND | 1600 | ug/kg | 340 |
| Bromomethane | ND | 1600 | ug/kg | 500 |
| 2-Butanone (MEK) | ND | 1600 | ug/kg | 340 |
| Carbon tetrachloride | ND | 1600 | ug/kg | 340 |
| Chloroethane | ND | 1600 | ug/kg | 240 |
| 2-Chloroethyl vinyl ether | ND | 3200 | ug/kg | 350 |
| Chloroform | ND | 1600 | ug/kg | 320 |
| Chloromethane | ND | 1600 | ug/kg | 290 |
| Dibromochloromethane | ND | 1600 | ug/kg | 210 |
| 1,2-Dichlorobenzene | ND | 1600 | ug/kg | 220 |
| 1,3-Dichlorobenzene | ND | 1600 | ug/kg | 160 |
| 1,4-Dichlorobenzene | ND | 1600 | ug/kg | 170 |
| trans-1,2-Dichloroethene | ND | 1600 | ug/kg | 240 |
| Dichlorodifluoromethane | ND | 1600 | ug/kg | 200 |
| 1,1-Dichloroethane | ND | 1600 | ug/kg | 320 |
| 1,2-Dichloroethane | ND | 1600 | ug/kg | 300 |
| 1,1-Dichloroethene | ND uL | 1600 | ug/kg | 340 |
| 1,2-Dichloropropane | ND | 1600 | ug/kg | 400 |
| cis-1,3-Dichloropropene | ND | 1600 | ug/kg | 230 |
| trans-1,3-Dichloropropene | ND | 1600 | ug/kg | 180 |
| Ethylbenzene | 1300 J | 1600 | ug/kg | 200 |
| Methylene chloride | ND | 1600 | ug/kg | 350 |
| 1,1,2,2-Tetrachloroethane | ND | 1600 | ug/kg | 300 |
| Tetrachloroethene | ND | 1600 | ug/kg | 260 |
| Toluene | 26000 L | 1600 | ug/kg | 270 |
| 1,1,1-Trichloroethane | ND | 1600 | ug/kg | 330 |
| 1,1,2-Trichloroethane | ND | 1600 | ug/kg | 370 |
| Trichloroethene | ND uL | 1600 | ug/kg | 250 |
| Trichlorofluoromethane | ND | 1600 | ug/kg | 360 |
| Vinyl chloride | ND | 1600 | ug/kg | 410 |

(Continued on next page)

mw
8/12/09

2

Maryland Environmental Service

Client Sample ID: CT-SO-B01-18

GC/MS Volatiles

Lot-Sample #....: C9F030296-002 Work Order #....: LD9FQ1C1 Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 88 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 100 | (63 - 120) |
| Dibromofluoromethane | 100 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

nm
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Volatiles

Lot-Sample #...: C9F030296-003 Work Order #...: LD9F11AV Matrix.....: SOLID
 Date Sampled...: 06/02/09 Date Received...: 06/03/09 MS Run #.....: 9158003
 Prep Date.....: 06/05/09 Analysis Date...: 06/05/09
 Prep Batch #...: 9158011 Analysis Time...: 11:56
 Dilution Factor: 0.99 Initial Wgt/Vol: 5.06 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 15 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 5800 | ug/kg | 920 |
| Acrylonitrile | ND | 5800 | ug/kg | 470 |
| Benzene | 630 | 290 | ug/kg | 57 |
| Bromodichloromethane | ND | 290 | ug/kg | 54 |
| Bromoform | ND | 290 | ug/kg | 62 |
| Bromomethane | ND | 290 | ug/kg | 91 |
| 2-Butanone (MEK) | ND | 290 | ug/kg | 63 |
| Carbon tetrachloride | ND | 290 | ug/kg | 63 |
| Chloroethane | ND | 290 | ug/kg | 43 |
| 2-Chloroethyl vinyl ether | ND | 580 | ug/kg | 64 |
| Chloroform | ND | 290 | ug/kg | 59 |
| Chloromethane | ND | 290 | ug/kg | 54 |
| Dibromochloromethane | ND | 290 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 290 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 290 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 290 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 290 | ug/kg | 44 |
| Dichlorodifluoromethane | ND | 290 | ug/kg | 37 |
| 1,1-Dichloroethane | ND | 290 | ug/kg | 59 |
| 1,2-Dichloroethane | ND | 290 | ug/kg | 56 |
| 1,1-Dichloroethene | ND | 290 | ug/kg | 62 |
| 1,2-Dichloropropane | ND | 290 | ug/kg | 74 |
| cis-1,3-Dichloropropene | ND | 290 | ug/kg | 42 |
| trans-1,3-Dichloropropene | ND | 290 | ug/kg | 34 |
| Ethylbenzene | 58 J | 290 | ug/kg | 36 |
| Methylene chloride | ND | 290 | ug/kg | 63 |
| 1,1,2,2-Tetrachloroethane | ND | 290 | ug/kg | 54 |
| Tetrachloroethene | ND | 290 | ug/kg | 48 |
| Toluene | 510 | 290 | ug/kg | 49 |
| 1,1,1-Trichloroethane | ND | 290 | ug/kg | 60 |
| 1,1,2-Trichloroethane | ND | 290 | ug/kg | 67 |
| Trichloroethene | ND | 290 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 290 | ug/kg | 65 |
| Vinyl chloride | ND | 290 | ug/kg | 75 |

(Continued on next page)

3

Maryland Environmental Service

Client Sample ID: CT-SO-B01-14

GC/MS Volatiles

Lot-Sample #....: C9F030296-003 Work Order #....: LD9F11AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 89 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ms
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F030296-004 Work Order #....: LD9F41AA Matrix.....: WATER
 Date Sampled....: 06/02/09 Date Received...: 06/03/09 MS Run #.....: 9155244
 Prep Date.....: 06/04/09 Analysis Date...: 06/04/09
 Prep Batch #....: 9155473 Analysis Time...: 15:37
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|-------|------|
| Acrolein | ND <i>R</i> | 100 | ug/L | 5.7 |
| Acrylonitrile | ND <i>UJ</i> | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND <i>UJ</i> | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F030296-004 Work Order #....: LD9F41AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 97 | (62 - 123) |
| Toluene-d8 | 103 | (80 - 120) |
| 4-Bromofluorobenzene | 99 | (75 - 120) |
| Dibromofluoromethane | 104 | (80 - 120) |

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9F090183

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 17, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| US Dept of Agriculture | NA | NAVY | X |
| Arkansas | (#P330-07-00101) | Foreign Soil Import Permit | X |
| | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F090183

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 9, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, the sediment samples were analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

The method blank had toluene detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had toluene detected had the result flagged with a "B" qualifier.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, CT-SO-B02-16 and CT-SO-B02-20 were analyzed at a dilution. The samples had the surrogates diluted out.

Sample CT-SO-B02-12, CT-SO-B02-12 matrix spike, and CT-SO-B02-12 matrix spike duplicate had the surrogate recovery of 2,4,6-tribromophenol recover below the control limit confirming matrix interference.

The matrix spike and matrix spike duplicate had pentachlorophenol and naphthalene recover outside the control limits.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F090183

GC/MS Semivolatiles cont.:

A quadratic curve will be used for a compound where it is determined to be the “best-fit” evaluation.

Metals:

The samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

The serial dilution percent difference for CT-SO-B02-20 was outside the control limit for arsenic, antimony, and zinc.

The method blank had chromium detected at a concentration between the MDL and the reporting limit. The result was flagged with a “B” qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a “J” qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony. The matrix spike recovered outside the control limit for nickel and selenium. The matrix spike duplicate recovered outside the control limit for arsenic.

The RPD was outside the control limit for nickel.

For the matrix spike and matrix spike duplicate, mercury, zinc, lead, chromium and copper recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

The matrix spike duplicate recovered outside the control limit for cyanide.

METHODS SUMMARY

C9F090183

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F090183

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LEKLD | 001 | CT-SO-B02-12 | 06/08/09 | 13:20 |
| LEKLG | 002 | CT-SO-B02-16 | 06/08/09 | 14:00 |
| LEKLH | 003 | CT-SO-B02-20 | 06/08/09 | 14:20 |
| LECLK | 004 | TRIP BLANK | 06/08/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Page
696c

Cooler Receipt Form

TestAmerica Pittsburgh

Client: E.A. Engineering Project: _____ Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 6/9/09

Coolers Opened and Unpacked on: 6/9/09 By: PLF

(Signature)

TestAmerica Pittsburgh Lot Number: C9F090183

- | | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, how many and where? Quantity <u>1</u> Location <u>front</u> | | | |
| Were signatures and date correct? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If YES, what type? <u>Bubble Wrap</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Were the samples appropriately preserved? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible][illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

**Please use an asterisk if bottle lot number was covered by the label

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____

Hydrochloric Acid _____

Sulfuric Acid

Sodium Hydroxide

FedEx US Airbill
Express

8694 4003 0540

0200

Form
ID No.

FedEx Retrieval Copy

1 From
Date 6/18/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name Steve Yankay Phone 717 487-6632
Company EA Engineering
Address 15 Loveton Circle
City Sparks State MD ZIP 21152

2 Your Internal Billing Reference 1453406.0001.000483

3 To
Recipient's Name Sammy Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address RIDC Park
City Pittsburgh State PA ZIP 15238



8694 4003 0540

4a Express Package Service

Packages up to 150 lbs.

1 ☐ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☒ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.
6 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 ☐ FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx Envelope rate not available. Minimum charge: One-pound rate.
20 ☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

* To meet locations.

4b Express Freight Service

Packages over 150 lbs.

7 ☐ FedEx 1Day Freight*
Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ FedEx 2Day Freight
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight
Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To meet locations.

5 Packaging

6 ☐ FedEx Envelope* **2** ☐ FedEx Pak*
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
3 ☐ FedEx Box **4** ☐ FedEx Tube **1** ☒ Other
* Declared value limit: \$500.

6 Special Handling

Include FedEx address in Section 3.

3 ☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 ☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.
31 ☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?
One box must be checked.
☒ No **4** ☐ Yes
As per attached Shipper's Declaration. ☐ Yes
Shipper's Declaration not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
6 ☐ Dry Ice
Dry ice, 5, UN 1845 x kg
☐ Cargo Aircraft Only

7 Payment

Bill to: Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No.

1 ☒ Sender Acct. No. in Section 1 will bill.
2 ☐ Recipient **3** ☐ Third Party **4** ☐ Credit Card **5** ☐ Cash/Check

Total Packages

Total Weight

38

* Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

☐ No Signature Required
Package may be left without obtaining a signature for delivery.
10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

Rev. Date 10/08/Part #15231-01/04-2006 FedEx-PRINTED IN U.S.A. SWY

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-001 | Work Order #....: LEKLD1AU | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 08:08 | |
| Dilution Factor: 1.08 | Initial Wgt/Vol: 4.62 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|-----------|
| Acrolein | ND | 6400 | ug/kg | 1000 |
| Acrylonitrile | ND | 6400 | ug/kg | 520 |
| Benzene | 170 J | 320 | ug/kg | 63 |
| Bromodichloromethane | ND | 320 | ug/kg | 60 |
| Bromoform | ND | 320 | ug/kg | 68 |
| Bromomethane | ND | 320 | ug/kg | 100 |
| 2-Butanone (MEK) | ND | 320 | ug/kg | 69 |
| Carbon tetrachloride | ND | 320 | ug/kg | 69 |
| Chloroethane | ND | 320 | ug/kg | 48 |
| 2-Chloroethyl vinyl ether | ND | 640 | ug/kg | 71 |
| Chloroform | ND | 320 | ug/kg | 65 |
| Chloromethane | ND | 320 | ug/kg | 59 |
| Dibromochloromethane | ND | 320 | ug/kg | 42 |
| 1,2-Dichlorobenzene | ND | 320 | ug/kg | 44 |
| 1,3-Dichlorobenzene | ND | 320 | ug/kg | 32 |
| 1,4-Dichlorobenzene | ND | 320 | ug/kg | 34 |
| trans-1,2-Dichloroethene | ND | 320 | ug/kg | 48 |
| Dichlorodifluoromethane | ND | 320 | ug/kg | 41 |
| 1,1-Dichloroethane | ND | 320 | ug/kg | 65 |
| 1,2-Dichloroethane | ND | 320 | ug/kg | 61 |
| 1,1-Dichloroethene | ND | 320 | ug/kg | 68 |
| 1,2-Dichloropropane | ND | 320 | ug/kg | 82 |
| cis-1,3-Dichloropropene | ND | 320 | ug/kg | 47 |
| trans-1,3-Dichloropropene | ND | 320 | ug/kg | 37 |
| Ethylbenzene | ND | 320 | ug/kg | 40 |
| Methylene chloride | ND | 320 | ug/kg | 70 |
| 1,1,2,2-Tetrachloroethane | ND | 320 | ug/kg | 60 |
| Tetrachloroethene | ND | 320 | ug/kg | 53 |
| Toluene | 400 B | 320 | ug/kg | 54 |
| 1,1,1-Trichloroethane | ND | 320 | ug/kg | 66 |
| 1,1,2-Trichloroethane | ND | 320 | ug/kg | 74 |
| Trichloroethene | ND | 320 | ug/kg | 51 |
| Trichlorofluoromethane | ND | 320 | ug/kg | 72 |
| Vinyl chloride | ND | 320 | ug/kg | 83 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

GC/MS Volatiles

Lot-Sample #...: C9F090183-001 Work Order #...: LEKLD1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 75 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 85 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-002 | Work Order #....: LEKLG1AU | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 08:31 | |
| Dilution Factor: 1.05 | Initial Wgt/Vol: 4.75 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 14 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|---------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 6100 | ug/kg | 970 |
| Acrylonitrile | ND | 6100 | ug/kg | 490 |
| Benzene | 1600 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 57 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 96 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 66 |
| Carbon tetrachloride | ND | 300 | ug/kg | 66 |
| Chloroethane | ND | 300 | ug/kg | 46 |
| 2-Chloroethyl vinyl ether | ND | 610 | ug/kg | 68 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 57 |
| Dibromochloromethane | ND | 300 | ug/kg | 40 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 42 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 46 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 39 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 62 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 65 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 78 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 36 |
| Ethylbenzene | 290 J | 300 | ug/kg | 38 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 57 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 4500 B | 300 | ug/kg | 52 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 63 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 71 |
| Trichloroethene | ND | 300 | ug/kg | 49 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 79 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Volatiles

Lot-Sample #...: C9F090183-002 Work Order #...: LEKLG1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 76 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-003 | Work Order #....: LEKLH1AU | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 08:54 | |
| Dilution Factor: 5.79 | Initial Wgt/Vol: 4.32 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|------------|
| Acrolein | ND | 36000 | ug/kg | 5700 |
| Acrylonitrile | ND | 36000 | ug/kg | 2900 |
| Benzene | 13000 | 1800 | ug/kg | 360 |
| Bromodichloromethane | ND | 1800 | ug/kg | 340 |
| Bromoform | ND | 1800 | ug/kg | 390 |
| Bromomethane | ND | 1800 | ug/kg | 570 |
| 2-Butanone (MEK) | ND | 1800 | ug/kg | 390 |
| Carbon tetrachloride | ND | 1800 | ug/kg | 390 |
| Chloroethane | ND | 1800 | ug/kg | 270 |
| 2-Chloroethyl vinyl ether | ND | 3600 | ug/kg | 400 |
| Chloroform | ND | 1800 | ug/kg | 360 |
| Chloromethane | ND | 1800 | ug/kg | 340 |
| Dibromochloromethane | ND | 1800 | ug/kg | 230 |
| 1,2-Dichlorobenzene | ND | 1800 | ug/kg | 250 |
| 1,3-Dichlorobenzene | ND | 1800 | ug/kg | 180 |
| 1,4-Dichlorobenzene | ND | 1800 | ug/kg | 190 |
| trans-1,2-Dichloroethene | ND | 1800 | ug/kg | 270 |
| Dichlorodifluoromethane | ND | 1800 | ug/kg | 230 |
| 1,1-Dichloroethane | ND | 1800 | ug/kg | 370 |
| 1,2-Dichloroethane | ND | 1800 | ug/kg | 350 |
| 1,1-Dichloroethene | ND | 1800 | ug/kg | 390 |
| 1,2-Dichloropropane | ND | 1800 | ug/kg | 460 |
| cis-1,3-Dichloropropene | ND | 1800 | ug/kg | 260 |
| trans-1,3-Dichloropropene | ND | 1800 | ug/kg | 210 |
| Ethylbenzene | 1700 J | 1800 | ug/kg | 220 |
| Methylene chloride | ND | 1800 | ug/kg | 390 |
| 1,1,2,2-Tetrachloroethane | ND | 1800 | ug/kg | 340 |
| Tetrachloroethene | ND | 1800 | ug/kg | 300 |
| Toluene | 33000 B | 1800 | ug/kg | 310 |
| 1,1,1-Trichloroethane | ND | 1800 | ug/kg | 370 |
| 1,1,2-Trichloroethane | ND | 1800 | ug/kg | 420 |
| Trichloroethene | ND | 1800 | ug/kg | 290 |
| Trichlorofluoromethane | ND | 1800 | ug/kg | 400 |
| Vinyl chloride | ND | 1800 | ug/kg | 470 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Volatiles

Lot-Sample #...: C9F090183-003 Work Order #...: LEKLH1AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 112 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 90 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-004 | Work Order #....: LEKLK1AA | Matrix.....: WATER |
| Date Sampled...: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: 9162189 |
| Prep Date.....: 06/11/09 | Analysis Date...: 06/11/09 | |
| Prep Batch #....: 9162407 | Analysis Time...: 15:31 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|-------------|------------|
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.1 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F090183-004 Work Order #...: LEK1K1AA Matrix.....: WATER

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 95 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 97 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

NOTE(S) :

J Estimated result. Result is less than RL.

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F090183

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B02-12 | 75 | 107 | 99 | 85 | 00 |
| 02 | CT-SO-B02-16 | 76 | 107 | 102 | 84 | 00 |
| 03 | CT-SO-B02-20 | 81 | 112 | 105 | 90 | 00 |
| 04 | METHOD BLK. LERMD1AA | 77 | 106 | 96 | 87 | 00 |
| 05 | LCS LERMD1AC | 77 | 109 | 102 | 90 | 00 |
| 06 | LCSD LERMD1AD | 76 | 108 | 101 | 88 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F090183

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | TRIP BLANK | 95 | 100 | 97 | 100 | 00 |
| 02 | INTRA-LAB QC | 95 | 95 | 93 | 101 | 00 |
| 03 | METHOD BLK. LEQAT1AA | 96 | 93 | 83 | 93 | 00 |
| 04 | LCS LEQAT1AC | 94 | 98 | 88 | 95 | 00 |
| 05 | LAB MS/MSD D | 92 | 97 | 87 | 93 | 00 |
| 06 | LAB MS/MSD S | 93 | 95 | 87 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F110000

WO #: LEQAT1AC

BATCH: 9162407

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.3 | 86 | 69 - 127 | |
| Trichloroethene | 40.0 | 41.1 | 103 | 80 - 120 | |
| Benzene | 40.0 | 39.8 | 99 | 80 - 120 | |
| Toluene | 40.0 | 40.3 | 101 | 80 - 124 | |
| Chlorobenzene | 40.0 | 37.8 | 95 | 83 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120000

WO #: LERMD1AC

BATCH: 9163096

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Trichloroethene | 2000 | 1750 | 87 | 76 - 119 | |
| Benzene | 2000 | 1940 | 97 | 77 - 120 | |
| Toluene | 2000 | 2180 | 109 | 78 - 124 | |
| Chlorobenzene | 2000 | 1910 | 95 | 79 - 120 | |
| 1,1-Dichloroethene | 2000 | 2000 | 100 | 59 - 129 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120000

WO #: LERMDIAD

BATCH: 9163096

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2190 | 109 | 59 - 129 | |
| Trichloroethene | 2000 | 1930 | 96 | 76 - 119 | |
| Benzene | 2000 | 2150 | 108 | 77 - 120 | |
| Toluene | 2000 | 2490 | 124 | 78 - 124 | |
| Chlorobenzene | 2000 | 2150 | 107 | 79 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F100295

WO #: LENGH1AC

BATCH: 9162407

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 33.9 | 85 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 41.2 | 103 | 80 - 120 | |
| Benzene | 40.0 | ND | 40.3 | 101 | 80 - 120 | |
| Toluene | 40.0 | ND | 39.3 | 98 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 38.2 | 96 | 83 - 120 | |

NOTES (S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: ___0___ out of ___0___ outside limits
Spike Recovery: ___0___ out of ___5___ outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F100295

WO #: LENGH1AD

BATCH: 9162407

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|--|------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD | REC | | |
| 1,1-Dichloroethene | 40.0 | 34.3 | 86 | 1.1 | 20 | 69 - 127 | | |
| Trichloroethene | 40.0 | 41.6 | 104 | 0.84 | 20 | 80 - 120 | | |
| Benzene | 40.0 | 40.4 | 101 | 0.24 | 20 | 80 - 120 | | |
| Toluene | 40.0 | 40.6 | 102 | 3.2 | 20 | 80 - 124 | | |
| Chlorobenzene | 40.0 | 38.6 | 97 | 1.0 | 20 | 83 - 120 | | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEQAT1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7061102.D

Lot Number: C9F090183

Date Analyzed: 06/11/09

Time Analyzed: 09:47

Matrix: WATER

Date Extracted:06/11/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | TRIP BLANK | LEK1K1AA | 70611035. | 06/11/09 | 15:31 |
| 02 | INTRA-LAB QC | LENGH1AA | 70611023. | 06/11/09 | 10:12 |
| 03 | LAB MS/MSD | LENGH1AC S | 70611028. | 06/11/09 | 12:17 |
| 04 | LAB MS/MSD | LENGH1AD D | 70611029. | 06/11/09 | 12:42 |
| 05 | CHECK SAMPLE | LEQAT1AC C | 70611027. | 06/11/09 | 11:51 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F090183
MB Lot-Sample #: C9F110000-407

Work Order #...: LEQAT1AA

Matrix.....: WATER

Analysis Date...: 06/11/09
Dilution Factor: 1

Prep Date.....: 06/11/09
Prep Batch #...: 9162407
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 09:47
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | METHOD |
|---------------------------|----------|------------|-------|-------------|
| | | LIMIT | UNITS | |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |
| | PERCENT | RECOVERY | | |
| SURROGATE | RECOVERY | LIMITS | | |
| 1,2-Dichloroethane-d4 | 96 | (62 - 123) | | |
| Toluene-d8 | 93 | (80 - 120) | | |
| 4-Bromofluorobenzene | 83 | (75 - 120) | | |

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F090183

Work Order #...: LEQAT1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 93 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LERMD1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4061202.D

Lot Number: C9F090183

Date Analyzed: 06/12/09

Time Analyzed: 07:44

Matrix: SOLID

Date Extracted: 06/12/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B02-12 | LEKLD1AU | 4061203.D | 06/12/09 | 08:08 |
| 02 | CT-SO-B02-16 | LEKLG1AU | 4061204.D | 06/12/09 | 08:31 |
| 03 | CT-SO-B02-20 | LEKLH1AU | 4061205.D | 06/12/09 | 08:54 |
| 04 | CHECK SAMPLE | LERMD1AC C | 4061206.D | 06/12/09 | 09:17 |
| 05 | DUPLICATE CHECK | LERMD1AD L | 4061207.D | 06/12/09 | 09:40 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F090183
MB Lot-Sample #: C9F120000-096

Work Order #...: LERMD1AA

Matrix.....: SOLID

Analysis Date...: 06/12/09
Dilution Factor: 1

Prep Date.....: 06/12/09
Prep Batch #...: 9163096
Initial Wgt/Vol: 5 g
Analyst ID.....: 010099

Analysis Time...: 07:44
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------------|------------|--------------|--------------|--------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 5000 | ug/kg | SW846 | 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 | 8260B |
| Benzene | ND | 250 | ug/kg | SW846 | 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 | 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 | 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 | 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 | 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 | 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 | 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 | 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 | 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Toluene | 230 J | 250 | ug/kg | SW846 | 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 | 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 | 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 | 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 | 8260B |
| SURROGATE | PERCENT | | RECOVERY | | |
| | RECOVERY | | LIMITS | | |
| 1,2-Dichloroethane-d4 | 77 | | (52 - 124) | | |
| Toluene-d8 | 106 | | (72 - 127) | | |
| 4-Bromofluorobenzene | 96 | | (63 - 120) | | |

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F090183

Work Order #...: LERMD1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 87 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F090183
 Lab File ID (Standard): 1C70611 Date Analyzed: 06/11/09
 Instrument ID: HP7 Time Analyzed: 0734
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 277412 | 10.58 | 494153 | 12.91 | 1198689 | 7.51 |
| UPPER LIMIT | 554824 | 10.78 | 988306 | 13.11 | 2397378 | 7.71 |
| LOWER LIMIT | 138706 | 10.38 | 247077 | 12.71 | 599345 | 7.31 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 442803 | 10.59 | 688258 | 12.91 | 1677875 | 7.51 |
| 02 INTRA-LAB CH | 376002 | 10.59 | 583319 | 12.90 | 1419211 | 7.50 |
| 03 TRIP BLANK | 290591 | 10.58 | 486094 | 12.91 | 1250126 | 7.51 |
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IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F090183
 Lab File ID (Standard): 1C40612 Date Analyzed: 06/12/09
 Instrument ID: HP4 Time Analyzed: 0544
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | | IS1 AREA # | RT # | IS2(CBZ) AREA # | RT # | IS3(DCB) AREA # | RT # |
|-------------------|--|---------------|-------|--------------------|-------|--------------------|-------|
| ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | | 1436969 | 7.68 | 298199 | 10.76 | 488355 | 13.09 |
| UPPER LIMIT | | 2873938 | 7.88 | 596398 | 10.96 | 976710 | 13.29 |
| LOWER LIMIT | | 718485 | 7.48 | 149100 | 10.56 | 244178 | 12.89 |
| ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | | |
| ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | | 1438624 | 7.68 | 294669 | 10.76 | 433860 | 13.09 |
| 02 CT-SO-B02-12 | | 1240896 | 7.68 | 247618 | 10.76 | 398946 | 13.09 |
| 03 CT-SO-B02-16 | | 1398651 | 7.68 | 288016 | 10.76 | 463468 | 13.09 |
| 04 CT-SO-B02-20 | | 1488569 | 7.68 | 303286 | 10.76 | 490405 | 13.09 |
| 05 INTRA-LAB CH | | 1424897 | 7.68 | 299300 | 10.76 | 478759 | 13.09 |
| 06 INTRA-LAB CH | | 1478640 | 7.68 | 305903 | 10.76 | 488733 | 13.09 |
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IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F090183-001 | Work Order #....: LEKLD1AC | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 13:20 | Date Received...: 06/09/09 09:50 | MS Run #.....: 9163002 |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163010 | Analysis Time...: 09:40 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 16 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 75 | 7.9 | ug/kg | 1.2 |
| 2-Methylnaphthalene | 180 | 7.9 | ug/kg | 1.6 |
| Naphthalene | 1500 | 7.9 | ug/kg | 1.2 |
| Acenaphthylene | 87 | 7.9 | ug/kg | 1.6 |
| Acenaphthene | 27 | 7.9 | ug/kg | 1.3 |
| Fluorene | 59 | 7.9 | ug/kg | 1.2 |
| Phenanthrene | 290 | 7.9 | ug/kg | 0.94 |
| Anthracene | 72 | 39 | ug/kg | 1.4 |
| Fluoranthene | 360 | 7.9 | ug/kg | 0.67 |
| Pyrene | 240 | 7.9 | ug/kg | 2.1 |
| Benzo (a) anthracene | 150 | 7.9 | ug/kg | 1.3 |
| Chrysene | 160 | 7.9 | ug/kg | 1.4 |
| Benzo (b) fluoranthene | 190 | 7.9 | ug/kg | 1.6 |
| Benzo (k) fluoranthene | ND | 7.9 | ug/kg | 1.6 |
| Benzo (a) pyrene | 110 | 7.9 | ug/kg | 2.2 |
| Indeno (1,2,3-cd) pyrene | 72 | 7.9 | ug/kg | 0.44 |
| Dibenzo (a,h) anthracene | 26 | 7.9 | ug/kg | 1.7 |
| Benzo (ghi) perylene | 82 | 7.9 | ug/kg | 0.58 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 58 | (27 - 110) |
| Terphenyl-d14 | 53 | (21 - 130) |
| 2-Fluorobiphenyl | 54 | (28 - 108) |
| 2-Fluorophenol | 41 | (28 - 107) |
| Phenol-d5 | 55 | (30 - 112) |
| 2,4,6-Tribromophenol | 9.7 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-002 Work Order #....: LEKLG1AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 14:00 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 10:00
 Dilution Factor: 74.5 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 14 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 6700 | 580 | ug/kg | 87 |
| 2-Methylnaphthalene | 16000 | 580 | ug/kg | 110 |
| Naphthalene | 110000 | 580 | ug/kg | 84 |
| Acenaphthylene | 14000 | 580 | ug/kg | 110 |
| Acenaphthene | 910 | 580 | ug/kg | 93 |
| Fluorene | 7100 | 580 | ug/kg | 87 |
| Phenanthrene | 16000 | 580 | ug/kg | 69 |
| Anthracene | 4500 | 2900 | ug/kg | 100 |
| Fluoranthene | 9700 | 580 | ug/kg | 49 |
| Pyrene | 6000 | 580 | ug/kg | 150 |
| Benzo (a) anthracene | 3800 | 580 | ug/kg | 92 |
| Chrysene | 3300 | 580 | ug/kg | 100 |
| Benzo (b) fluoranthene | 4000 | 580 | ug/kg | 120 |
| Benzo (k) fluoranthene | ND | 580 | ug/kg | 120 |
| Benzo (a) pyrene | 3000 | 580 | ug/kg | 160 |
| Indeno (1,2,3-cd) pyrene | 1400 | 580 | ug/kg | 32 |
| Dibenzo (a,h) anthracene | 310 J | 580 | ug/kg | 130 |
| Benzo (ghi) perylene | 1400 | 580 | ug/kg | 42 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-003 Work Order #....: LEKLH1AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 14:20 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 10:21
 Dilution Factor: 150 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------|--------------------|-------|-----|
| 1-Methylnaphthalene | 36000 | 1300 | ug/kg | 190 |
| 2-Methylnaphthalene | 90000 | 1300 | ug/kg | 250 |
| Naphthalene | 500000 E | 1300 | ug/kg | 180 |
| Acenaphthylene | 83000 | 1300 | ug/kg | 250 |
| Acenaphthene | 4400 | 1300 | ug/kg | 200 |
| Fluorene | 45000 | 1300 | ug/kg | 190 |
| Phenanthrene | 110000 | 1300 | ug/kg | 150 |
| Anthracene | 33000 | 6200 | ug/kg | 220 |
| Fluoranthene | 73000 | 1300 | ug/kg | 110 |
| Pyrene | 43000 | 1300 | ug/kg | 330 |
| Benzo (a) anthracene | 29000 | 1300 | ug/kg | 200 |
| Chrysene | 24000 | 1300 | ug/kg | 220 |
| Benzo (b) fluoranthene | 29000 | 1300 | ug/kg | 250 |
| Benzo (k) fluoranthene | ND | 1300 | ug/kg | 260 |
| Benzo (a) pyrene | 22000 | 1300 | ug/kg | 350 |
| Indeno (1,2,3-cd) pyrene | 10000 | 1300 | ug/kg | 69 |
| Dibenzo (a,h) anthracene | 3400 | 1300 | ug/kg | 280 |
| Benzo (ghi) perylene | 9500 | 1300 | ug/kg | 92 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20 DL

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-003 Work Order #....: LEK1H2AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 14:20 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 11:22
 Dilution Factor: 750 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|------|
| 1-Methylnaphthalene | 29000 | 6300 | ug/kg | 940 |
| 2-Methylnaphthalene | 72000 | 6300 | ug/kg | 1200 |
| Naphthalene | 660000 | 6300 | ug/kg | 910 |
| Acenaphthylene | 64000 | 6300 | ug/kg | 1200 |
| Acenaphthene | 3800 J | 6300 | ug/kg | 1000 |
| Fluorene | 34000 | 6300 | ug/kg | 940 |
| Phenanthrene | 82000 | 6300 | ug/kg | 750 |
| Anthracene | 26000 J | 31000 | ug/kg | 1100 |
| Fluoranthene | 57000 | 6300 | ug/kg | 530 |
| Pyrene | 33000 | 6300 | ug/kg | 1700 |
| Benzo (a) anthracene | 23000 | 6300 | ug/kg | 1000 |
| Chrysene | 20000 | 6300 | ug/kg | 1100 |
| Benzo (b) fluoranthene | 24000 | 6300 | ug/kg | 1300 |
| Benzo (k) fluoranthene | ND | 6300 | ug/kg | 1300 |
| Benzo (a) pyrene | 16000 | 6300 | ug/kg | 1700 |
| Indeno (1,2,3-cd) pyrene | 8500 | 6300 | ug/kg | 340 |
| Dibenzo (a,h) anthracene | 3100 J | 6300 | ug/kg | 1400 |
| Benzo (ghi) perylene | 8200 | 6300 | ug/kg | 460 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F090183

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B02-12 | 58 | 53 | 54 | 41 | 55 | 9.7* | 01 |
| 02 | CT-SO-B02-16 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | CT-SO-B02-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | CT-SO-B02-20 RE-1 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | METHOD BLK. LERGD1AA | 82 | 84 | 76 | 82 | 86 | 81 | 00 |
| 06 | LCS LERGD1AC | 96 | 92 | 88 | 92 | 92 | 91 | 00 |
| 07 | CT-SO-B02-12 D | 71 | 58 | 67 | 53 | 68 | 14 * | 01 |
| 08 | CT-SO-B02-12 S | 74 | 63 | 69 | 57 | 73 | 20 * | 01 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120000

WO #: LERGD1AC

BATCH: 9163010

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 4-Methylphenol | 667 | 554 | 83 | 43- 107 | |
| Hexachloroethane | 333 | 282 | 85 | 40- 102 | |
| Naphthalene | 333 | 284 | 85 | 42- 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 278 | 84 | 43- 111 | |
| Butyl benzyl phthalate | 333 | 307 | 92 | 40- 117 | |
| Phenol | 333 | 300 | 90 | 39- 105 | |
| 2-Chlorophenol | 333 | 275 | 82 | 40- 105 | |
| 1,4-Dichlorobenzene | 333 | 283 | 85 | 41- 101 | |
| N-Nitrosodi-n-propylamine | 333 | 306 | 92 | 42- 108 | |
| 1,2,4-Trichlorobenzene | 333 | 274 | 82 | 41- 105 | |
| 4-Chloro-3-methylphenol | 333 | 280 | 84 | 43- 110 | |
| Acenaphthene | 333 | 284 | 85 | 42- 104 | |
| 4-Nitrophenol | 333 | 342 | 103 | 27- 131 | |
| 2,4-Dinitrotoluene | 333 | 319 | 96 | 48- 118 | |
| Pentachlorophenol | 333 | 303 | 91 | 18- 125 | |
| Pyrene | 333 | 280 | 84 | 39- 113 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B02-12

Level: (low/med) LOW

Lot #: C9F090183

WO #: LEKLD1AV

BATCH: 9163010

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|------|
| Phenol | 395 | 58 | 394 | 85 | 39 - 105 | |
| 2-Chlorophenol | 395 | ND | 225 | 57 | 40 - 105 | |
| 1,4-Dichlorobenzene | 395 | ND | 267 | 67 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 395 | ND | 303 | 77 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 395 | ND | 255 | 65 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 395 | ND | 278 | 70 | 43 - 110 | |
| Acenaphthene | 395 | 27 | 325 | 75 | 42 - 104 | |
| 4-Nitrophenol | 395 | ND | 138 | 35 | 27 - 131 | |
| 2,4-Dinitrotoluene | 395 | ND | 314 | 80 | 48 - 118 | |
| Pentachlorophenol | 395 | ND | 47.8 | 12* | 18 - 125 | a |
| Pyrene | 395 | 240 | 578 | 85 | 39 - 113 | |
| 4-Methylphenol | 791 | 27 | 639 | 77 | 43 - 107 | |
| Hexachloroethane | 395 | ND | 257 | 65 | 40 - 102 | |
| Naphthalene | 395 | 1500 | 2460 | 232* | 42 - 104 | a |
| 4-Bromophenyl phenyl ethe | 395 | ND | 287 | 73 | 43 - 111 | |
| Butyl benzyl phthalate | 395 | ND | 298 | 75 | 40 - 117 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 2 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B02-12

Level: (low/med) LOW

Lot #: C9F090183

WO #: LEKLD1AW

BATCH: 9163010

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|---------|------|
| Phenol | 395 | 374 | 80 | 5.1 | 40 | 39- 105 | |
| 2-Chlorophenol | 395 | 202 | 51 | 11 | 37 | 40- 105 | |
| 1,4-Dichlorobenzene | 395 | 251 | 64 | 5.8 | 32 | 41- 101 | |
| N-Nitrosodi-n-propylamine | 395 | 284 | 72 | 6.5 | 32 | 42- 108 | |
| 1,2,4-Trichlorobenzene | 395 | 251 | 63 | 1.8 | 36 | 41- 105 | |
| 4-Chloro-3-methylphenol | 395 | 266 | 67 | 4.5 | 31 | 43- 110 | |
| Acenaphthene | 395 | 313 | 72 | 3.7 | 34 | 42- 104 | |
| 4-Nitrophenol | 395 | 121 | 31 | 13 | 33 | 27- 131 | |
| 2,4-Dinitrotoluene | 395 | 310 | 78 | 1.4 | 33 | 48- 118 | |
| Pentachlorophenol | 395 | 37.9 | 9* | 23 | 34 | 18- 125 | a |
| Pyrene | 395 | 543 | 76 | 6.3 | 28 | 39- 113 | |
| 4-Methylphenol | 791 | 604 | 73 | 5.6 | 36 | 43- 107 | |
| Hexachloroethane | 395 | 242 | 61 | 6.0 | 34 | 40- 102 | |
| Naphthalene | 395 | 2430 | 224* | 1.4 | 25 | 42- 104 | a |
| 4-Bromophenyl phenyl ethe | 395 | 245 | 62 | 16 | 20 | 43- 111 | |
| Butyl benzyl phthalate | 395 | 279 | 70 | 6.8 | 34 | 40- 117 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 2 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LERGD1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0612001.

Lot Number: C9F090183

Date Analyzed: 06/12/09

Time Analyzed: 08:59

Matrix: SOLID

Date Extracted:06/12/09

GC Column: DB5

ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B02-12 | LEKLD1AC | N0612003. | 06/12/09 | 09:40 |
| 02 | CT-SO-B02-12 | LEKLD1AV S | N0612004. | 06/12/09 | 10:41 |
| 03 | CT-SO-B02-12 | LEKLD1AW D | N0612005. | 06/12/09 | 11:02 |
| 04 | CT-SO-B02-16 | LEKLG1AC | N0612006. | 06/12/09 | 10:00 |
| 05 | CT-SO-B02-20 | LEKLG1AC | N0612007. | 06/12/09 | 10:21 |
| 06 | CT-SO-B02-20 | LEKLG2AC | N0612031. | 06/12/09 | 11:22 |
| 07 | CHECK SAMPLE | LERGD1AC C | N0612002. | 06/12/09 | 09:19 |
| 08 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9F090183
MB Lot-Sample #: C9F120000-010

Work Order #...: LERGD1AA

Matrix.....: SOLID

Analysis Date...: 06/12/09
Dilution Factor: 0.5

Prep Date.....: 06/12/09
Prep Batch #...: 9163010
Initial Wgt/Vol: 30 g
Analyst ID.....: 003200

Analysis Time...: 08:59
Final Wgt/Vol...: 0.5 mL
Instrument ID...: 733

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|--------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 84 | (21 - 130) |
| 2-Fluorobiphenyl | 76 | (28 - 108) |
| 2-Fluorophenol | 82 | (28 - 107) |
| Phenol-d5 | 86 | (30 - 112) |
| 2,4,6-Tribromophenol | 81 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F090183
 Lab File ID (Standard): N06120CC Date Analyzed: 06/12/09
 Instrument ID: 733 Time Analyzed: 0839

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 119342 | 4.51 | 473690 | 5.49 | 279064 | 6.85 |
| UPPER LIMIT | 238684 | 5.01 | 947380 | 5.99 | 558128 | 7.35 |
| LOWER LIMIT | 59671 | 4.01 | 236845 | 4.99 | 139532 | 6.35 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 136831 | 4.51 | 560076 | 5.49 | 323394 | 6.85 |
| 02 INTRA-LAB CH | 120459 | 4.51 | 473447 | 5.49 | 279848 | 6.84 |
| 03 CT-SO-B02-12 | 110963 | 4.51 | 441133 | 5.48 | 272867 | 6.84 |
| 04 CT-SO-B02-16 | 118172 | 4.51 | 472181 | 5.48 | 276732 | 6.83 |
| 05 CT-SO-B02-20 | 114401 | 4.51 | 457793 | 5.49 | 271992 | 6.84 |
| 06 CT-SO-B02-12 | 103255 | 4.51 | 424058 | 5.48 | 259006 | 6.83 |
| 07 CT-SO-B02-12 | 105055 | 4.51 | 414490 | 5.48 | 250122 | 6.83 |
| 08 CT-SO-B02-20 | 132515 | 4.51 | 547515 | 5.49 | 333665 | 6.84 |
| 09 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9F090183
Lab File ID (Standard): N06120CC Date Analyzed: 06/12/09
Instrument ID: 733 Time Analyzed: 0839

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 464608 | 7.99 | 350765 | 10.05 | 268148 | 11.45 |
| UPPER LIMIT | 929216 | 8.49 | 701530 | 10.55 | 536296 | 11.95 |
| LOWER LIMIT | 232304 | 7.49 | 175383 | 9.55 | 134074 | 10.95 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 532225 | 7.99 | 392956 | 10.05 | 296881 | 11.44 |
| 02 INTRA-LAB CH | 453919 | 7.99 | 368325 | 10.04 | 277678 | 11.44 |
| 03 CT-SO-B02-12 | 454151 | 7.98 | 392412 | 10.04 | 326264 | 11.43 |
| 04 CT-SO-B02-16 | 448558 | 7.98 | 364194 | 10.03 | 295486 | 11.42 |
| 05 CT-SO-B02-20 | 448207 | 7.99 | 367949 | 10.04 | 290465 | 11.43 |
| 06 CT-SO-B02-12 | 408098 | 7.98 | 407822 | 10.04 | 345266 | 11.43 |
| 07 CT-SO-B02-12 | 418332 | 7.98 | 432425 | 10.04 | 356139 | 11.43 |
| 08 CT-SO-B02-20 | 559018 | 7.99 | 465206 | 10.04 | 385951 | 11.43 |
| 09 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

TOTAL Metals

Lot-Sample #...: C9F090183-001

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 16

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9160627 | | | | | | |
| Silver | 0.15 B | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.012 | |
| Arsenic | 3.9 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.054 | |
| Beryllium | 0.97 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.022 | |
| Cadmium | 1.1 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.021 | |
| Chromium | 962 J | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.018 | |
| Copper | 76.9 | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.098 | |
| Nickel | 46.1 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.034 | |
| Lead | 80.0 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.011 | |
| Antimony | 1.3 | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0077 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

TOTAL Metals

Lot-Sample #...: C9F090183-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.62 B | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.15 | |
| Thallium | 0.072 B | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0059 | |
| Zinc | 278 | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.19 | |

Prep Batch #...: 9161192

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.046 | 0.020 | mg/kg | SW846 7471A | 06/10/09 | LEKLD1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:44 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0065 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

TOTAL Metals

Lot-Sample #....: C9F090183-002

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 14

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9160627 | | | | | | |
| Silver | 0.43 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.011 | |
| Arsenic | 6.1 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.053 | |
| Beryllium | 0.65 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.022 | |
| Cadmium | 3.1 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.020 | |
| Chromium | 966 J | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.018 | |
| Copper | 106 | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.096 | |
| Nickel | 101 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.033 | |
| Lead | 111 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.011 | |
| Antimony | 2.3 | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0076 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

TOTAL Metals

Lot-Sample #....: C9F090183-002

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.66 B | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.15 | |
| Thallium | 0.030 B | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0058 | |
| Zinc | 374 | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.19 | |

Prep Batch #....: 9161192

| | | | | | | |
|----------------|-----------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | ND | 0.019 | mg/kg | SW846 7471A | 06/10/09 | LEKLG1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0063 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9F090183-003

Matrix.....: SOLID

Date Sampled...: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 20

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9160627 | | | | | | |
| Silver | 0.23 B | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.012 | |
| Arsenic | 4.4 E | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.057 | |
| Beryllium | 0.38 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.023 | |
| Cadmium | 2.3 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.022 | |
| Chromium | 254 J | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.019 | |
| Copper | 64.1 | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.10 | |
| Nickel | 51.9 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.035 | |
| Lead | 112 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.012 | |
| Antimony | 1.1 E | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0081 | |

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Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9F090183-003

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.38 B | 1.6 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.16 | |
| | | | | | | |
| Thallium | 0.039 B | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0062 | |
| | | | | | | |
| Zinc | 446 E | 1.6 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.20 | |

Prep Batch #...: 9161192

| | | | | | | |
|----------------|-------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.44 | 0.021 | mg/kg | SW846 7471A | 06/10/09 | LEKLH1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:39 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0068 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F090183

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9F090000-627 Prep Batch #...: 9160627 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.038 B | 0.10 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/09-06/10/09 | LELLT1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:57 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

MB Lot-Sample #: C9F100000-192 Prep Batch #....: 9161192

| | | | | | | |
|---------|----|-------------------------|-------|-------------------------|----------|-----------------------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/10/09 | LEL2R1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 14:35 | | Analyst ID.....: 403938 | | Instrument ID...: HGH |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F090000-627 Prep Batch #....: 9160627 | | | | | |
| Arsenic | 86 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AP |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Beryllium | 95 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AQ |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Cadmium | 92 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AR |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Chromium | 104 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AT |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Copper | 103 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AU |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Nickel | 103 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AV |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Lead | 101 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AW |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Antimony | 85 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1AX |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Selenium | 96 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1A0 |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Thallium | 96 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1A1 |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|------------------|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| Zinc | 87 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1A2 |
| | | Dilution Factor: 0.5 | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 101 | (80 - 120) | SW846 6020 | 06/09-06/10/09 | LELLT1A3 |
| | | Dilution Factor: 0.5 | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: | C9F100000-192 | Prep Batch #....: | 9161192 | | |
| Mercury | 103 | (80 - 120) | SW846 7471A | 06/10/09 | LEL2R1AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 14:37 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F090183

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|--------------------------|------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F090000-627 Prep Batch #... : 9160627 | | | | | | | |
| Arsenic | 2.00 | 1.73 | mg/kg | 86 | SW846 6020 | 06/09-06/10/09 | LELLT1AP |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Beryllium | 2.50 | 2.37 | mg/kg | 95 | SW846 6020 | 06/09-06/10/09 | LELLT1AQ |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Cadmium | 2.50 | 2.29 | mg/kg | 92 | SW846 6020 | 06/09-06/10/09 | LELLT1AR |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Chromium | 10.0 | 10.4 | mg/kg | 104 | SW846 6020 | 06/09-06/10/09 | LELLT1AT |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Copper | 12.5 | 12.8 | mg/kg | 103 | SW846 6020 | 06/09-06/10/09 | LELLT1AU |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Nickel | 25.0 | 25.7 | mg/kg | 103 | SW846 6020 | 06/09-06/10/09 | LELLT1AV |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Lead | 1.00 | 1.01 | mg/kg | 101 | SW846 6020 | 06/09-06/10/09 | LELLT1AW |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Antimony | 25.0 | 21.2 | mg/kg | 85 | SW846 6020 | 06/09-06/10/09 | LELLT1AX |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Selenium | 0.500 | 0.478 | mg/kg | 96 | SW846 6020 | 06/09-06/10/09 | LELLT1A0 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |
| Thallium | 2.50 | 2.41 | mg/kg | 96 | SW846 6020 | 06/09-06/10/09 | LELLT1A1 |
| | | | Dilution Factor: 0.5 | | Analysis Time...: 21:01 | Analyst ID.....: 400149 | |
| | | | Instrument ID...: ICPMS2 | | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|-------------|-------------------------------|-----------------|
| Zinc | 25.0 | 21.6 | mg/kg | 87 | SW846 6020 | 06/09-06/10/09 | LELLT1A2 |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.52 | mg/kg | 101 | SW846 6020 | 06/09-06/10/09 | LELLT1A3 |
| Dilution Factor: 0.5 Analysis Time...: 21:01 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| LCS Lot-Sample#: C9F100000-192 Prep Batch #....: 9161192 | | | | | | | |
| Mercury | 0.208 | 0.215 | mg/kg | 103 | SW846 7471A | 06/10/09 | LEL2R1AC |
| Dilution Factor: 0.5 Analysis Time...: 14:37 Analyst ID.....: 403938 | | | | | | | |
| Instrument ID...: HGHYDRA | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|------------------------|---------------|------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9F090183-003 Prep Batch #....: 9160627 | | | | | | |
| | | | | | % Moisture.....: 20 | |
| Antimony | 70 N | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1CC |
| | 70 N | (75 - 125) 0.36 (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1CD |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Arsenic | 89 | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1AV |
| | 66 N | (75 - 125) 9.2 (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1AW |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Beryllium | 102 | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1AX |
| | 104 | (75 - 125) 2.1 (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1AO |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Cadmium | 85 | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A1 |
| | 82 | (75 - 125) 1.6 (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A2 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Chromium | NC | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A3 |
| | NC | (75 - 125) (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A4 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Copper | NC | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A5 |
| | NC | (75 - 125) (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A6 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/09-06/10/09 | LEKLH1A9 |
| | NC | (75 - 125) (0-20) | | SW846 6020 | 06/09-06/10/09 | LEKLH1CA |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9160347 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|------|------------|------------|----------------------------|--------------|
| Nickel | 148 N | (75 - 125) | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A7 |
| | 76 * | (75 - 125) | 26 | (0-20) | SW846 6020 | 06/09-06/10/09 | LEKLH1A8 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | |
| Selenium | 74 N | (75 - 125) | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CE |
| | 88 | (75 - 125) | 9.6 | (0-20) | SW846 6020 | 06/09-06/10/09 | LEKLH1CF |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | |
| Silver | 98 | (75 - 125) | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CL |
| | 98 | (75 - 125) | 0.0 | (0-20) | SW846 6020 | 06/09-06/10/09 | LEKLH1CM |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | |
| Thallium | 95 | (75 - 125) | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CG |
| | 96 | (75 - 125) | 0.64 | (0-20) | SW846 6020 | 06/09-06/10/09 | LEKLH1CH |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | |
| Zinc | NC | (75 - 125) | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CJ |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/09-06/10/09 | LEKLH1CK |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | |

MS Lot-Sample #: C9F090183-003 Prep Batch #....: 9161192

% Moisture.....: 20

| | | | | | | | |
|---|----|------------|--|--------|-------------|----------|----------|
| Mercury | NC | (75 - 125) | | | SW846 7471A | 06/10/09 | LEKLH1CN |
| | NC | (75 - 125) | | (0-20) | SW846 7471A | 06/10/09 | LEKLH1CP |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 14:41 Instrument ID...: HGHYDRA Analyst ID.....: 403938 | | | | | | | |
| MS Run #.....: 9161105 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

| PARAMETER | AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|--------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|--------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F090183-003 Prep Batch #....: 9160627

% Moisture.....: 20

Antimony

| | | | | | | | | | |
|--|------|------|---|-------|----|------|------------|----------------|----------|
| 1.1 | 31.2 | 22.8 | N | mg/kg | 70 | | SW846 6020 | 06/09-06/10/09 | LEKLH1CC |
| 1.1 | 31.2 | 22.9 | N | mg/kg | 70 | 0.36 | SW846 6020 | 06/09-06/10/09 | LEKLH1CD |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

Arsenic

| | | | | | | | | | |
|--|------|------|---|-------|----|-----|------------|----------------|----------|
| 4.4 | 2.50 | 6.67 | | mg/kg | 89 | | SW846 6020 | 06/09-06/10/09 | LEKLH1AV |
| 4.4 | 2.50 | 6.08 | N | mg/kg | 66 | 9.2 | SW846 6020 | 06/09-06/10/09 | LEKLH1AW |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

Beryllium

| | | | | | | | | | |
|--|------|------|--|-------|-----|-----|------------|----------------|----------|
| 0.38 | 3.12 | 3.55 | | mg/kg | 102 | | SW846 6020 | 06/09-06/10/09 | LEKLH1AX |
| 0.38 | 3.12 | 3.63 | | mg/kg | 104 | 2.1 | SW846 6020 | 06/09-06/10/09 | LEKLH1A0 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

Cadmium

| | | | | | | | | | |
|--|------|------|--|-------|----|-----|------------|----------------|----------|
| 2.3 | 3.12 | 4.95 | | mg/kg | 85 | | SW846 6020 | 06/09-06/10/09 | LEKLH1A1 |
| 2.3 | 3.12 | 4.87 | | mg/kg | 82 | 1.6 | SW846 6020 | 06/09-06/10/09 | LEKLH1A2 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

Chromium

| | | | | | | | | | |
|--|------|-----|----|-------|--|--|------------|----------------|----------|
| 254 | 12.5 | 636 | NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A3 |
| 254 | 12.5 | 350 | NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A4 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

Copper

| | | | | | | | | | |
|--|------|------|----|-------|--|--|------------|----------------|----------|
| 64.1 | 15.6 | 77.1 | NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A5 |
| 64.1 | 15.6 | 75.6 | NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A6 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F090183

Matrix.....: SOLID

Date Sampled...: 06/08/09

Date Received...: 06/09/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------------|-----------|---------------|-------|---------------|------|------------|----------------------------|--------------|
| Lead | | | | | | | | | |
| | 112 | 1.25 | 97.4 NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1A9 |
| | 112 | 1.25 | 103 NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CA |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |
| Nickel | | | | | | | | | |
| | 51.9 | 31.2 | 98.1 N | mg/kg | 148 | | SW846 6020 | 06/09-06/10/09 | LEKLH1A7 |
| | 51.9 | 31.2 | 75.5 * | mg/kg | 76 | 26 | SW846 6020 | 06/09-06/10/09 | LEKLH1A8 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |
| Selenium | | | | | | | | | |
| | 0.38 | 0.625 | 0.840 N | mg/kg | 74 | | SW846 6020 | 06/09-06/10/09 | LEKLH1CE |
| | 0.38 | 0.625 | 0.926 | mg/kg | 88 | 9.6 | SW846 6020 | 06/09-06/10/09 | LEKLH1CF |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |
| Silver | | | | | | | | | |
| | 0.23 | 3.12 | 3.29 | mg/kg | 98 | | SW846 6020 | 06/09-06/10/09 | LEKLH1CL |
| | 0.23 | 3.12 | 3.29 | mg/kg | 98 | 0.0 | SW846 6020 | 06/09-06/10/09 | LEKLH1CM |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |
| Thallium | | | | | | | | | |
| | 0.039 | 3.12 | 3.02 | mg/kg | 95 | | SW846 6020 | 06/09-06/10/09 | LEKLH1CG |
| | 0.039 | 3.12 | 3.03 | mg/kg | 96 | 0.64 | SW846 6020 | 06/09-06/10/09 | LEKLH1CH |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |
| Zinc | | | | | | | | | |
| | 446 | 31.2 | 397 NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CJ |
| | 446 | 31.2 | 417 NC | mg/kg | | | SW846 6020 | 06/09-06/10/09 | LEKLH1CK |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 21:38 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9160347 | | | | | | | | | |

MS Lot-Sample #: C9F090183-003 Prep Batch #...: 9161192

% Moisture.....: 20

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F090183

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|-------------------------|-------|---------------------------|-----|-------------------------|----------------------------|--------------|
| Mercury | 0.44 | 0.104 | 0.584 | mg/kg | | | SW846 7471A | 06/10/09 | LEKLH1CN |
| | | | Qualifiers: NC | | | | | | |
| | 0.44 | 0.104 | 0.569 | mg/kg | | | SW846 7471A | 06/10/09 | LEKLH1CP |
| | | | Qualifiers: NC | | | | | | |
| | | | Dilution Factor: 0.5 | | | | | | |
| | | | Analysis Time...: 14:41 | | Instrument ID...: HGHYDRA | | Analyst ID.....: 403938 | | |
| | | | MS Run #.....: 9161105 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F090183

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B02-12 | C9F090183 001 | LEKLD1AT | 5.7 | mg/kg | 0.10 | 0.59 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |
| CT-SO-B02-16 | C9F090183 002 | LEKLG1AT | 6.7 | mg/kg | 0.10 | 0.58 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |
| CT-SO-B02-20 | C9F090183 003 | LEKLH1AT | 2.6 | mg/kg | 0.11 | 0.62 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F090183

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B02-12 | C9F090183 001 | LEKLD1AA | 84.3 | % | 0.0 | 1.0 | 1 | 6/10/2009 - 6/11/2009 08:02 | 9161333 |
| CT-SO-B02-16 | C9F090183 002 | LEKLG1AA | 86.1 | % | 0.0 | 1.0 | 1 | 6/10/2009 - 6/11/2009 08:02 | 9161333 |
| CT-SO-B02-20 | C9F090183 003 | LEKLH1AA | 80.1 | % | 0.0 | 1.0 | 1 | 6/10/2009 - 6/11/2009 08:02 | 9161333 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F090183

Matrix: SOLID

Date/Time Received: 6/2/2009 9:55:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BLK - C9F110000214B | 214 MB | LEPA41AA | ND | mg/kg | 0.50 | 6/11/2009 - 6/12/2009 10:02 | 9162214 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F090183

Matrix: SOLID

Date/Time Received: 6/6/2009 10:30:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LEF891CR | 44.2 | % | 1.0 | 6/10/2009 - 6/11/2009 08:02 | 9161333 | 0.28 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F110000
 Date/Time Received: 6/2/2009 9:55:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LEPA41AC | 91 | 38 - 162 | 6/11/2009 - 6/12/2009 10:02 | 9162214 | |
| LAB MS/MSD | MS | LD6XX1CH | 90 | 85 - 115 | 6/11/2009 - 6/12/2009 10:02 | 9162214 | 40 / 20 |
| LAB MS/MSD | MS | LD7781CK | 91 | 85 - 115 | 6/11/2009 - 6/12/2009 09:55 | 9162214 | 0.20 / 20 |
| LAB MS/MSD | MSD | LD6XX1CJ | 60 N * | 85 - 115 | 6/11/2009 - 6/12/2009 10:10 | 9162214 | 40 / 20 |
| LAB MS/MSD | MSD | LD7781CL | 91 | 85 - 115 | 6/11/2009 - 6/12/2009 09:55 | 9162214 | 0.20 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F090183

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B02-12 | C9F090183-001 | Soil |
| 2 | CT-SO-B02-16 | C9F090183-002 | Soil |
| 3 | CT-SO-B02-20 | C9F090183-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F090183

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B02-12 | C9F090183 001 | LEKLD1AT | 5.7 | mg/kg | 0.10 | 0.59 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |
| CT-SO-B02-16 | C9F090183 002 | LEKLG1AT | 6.7 | mg/kg | 0.10 | 0.58 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |
| CT-SO-B02-20 | C9F090183 003 | LEKLH1AT | 2.6 | mg/kg | 0.11 | 0.62 | 1 | 6/11/2009 - 6/12/2009 10:02 | 9162214 |

hw
8/12/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F090183

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B02-12 | C9F090183-001 | Soil |
| 2 | CT-SO-B02-16 | C9F090183-002 | Soil |
| 3 | CT-SO-B02-20 | C9F090183-003 | Soil |
| 3MS | CT-SO-B02-20MS | C9F090183-003MS | Soil |
| 3MSD | CT-SO-B02-20MSD | C9F090183-003MSD | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|-----------------------------|
| 3 | Antimony | 70%/70%/Ok | None | Already qualified due to SD |
| | Arsenic | Ok/66%/Ok | None | Already qualified due to SD |
| | Nickel | 148%/Ok/Ok | K | All samples |
| | Selenium | 74%/Ok/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 3 | Antimony | 17.6% | J | All samples |
| | Arsenic | 11.2% | J | All samples |
| | Zinc | 12.2% | J | All samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

TOTAL Metals

Lot-Sample #...: C9F090183-001

Matrix.....: SOLID

Date Sampled...: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9160627 | | | | | |
| Silver | 0.15 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.012 |
| Arsenic | 3.9 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.054 |
| Beryllium | 0.97 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.022 |
| Cadmium | 1.1 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.021 |
| Chromium | 962 <i>f</i> | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.018 |
| Copper | 76.9 | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.098 |
| Nickel | 46.1 <i>K</i> | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.034 |
| Lead | 80.0 | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.011 |
| Antimony | 1.3 <i>J</i> | 0.59 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.0077 |

(Continued on next page)

hw
8/10/09

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

TOTAL Metals

Lot-Sample #...: C9F090183-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.62 <i>B L</i> | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.15 | |
| Thallium | 0.072 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0059 | |
| Zinc | 278 <i>J</i> | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLD1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:05 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.19 | |

Prep Batch #...: 9161192

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.046 | 0.020 | mg/kg | SW846 7471A | 06/10/09 | LEKLD1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:44 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0065 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

*new
8/10/09*

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

TOTAL Metals

Lot-Sample #...: C9F090183-002

Matrix.....: SOLID

Date Sampled...: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 14

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9160627 | | | | | |
| Silver | 0.43 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.011 |
| Arsenic | 6.1 J | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.053 |
| Beryllium | 0.65 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.022 |
| Cadmium | 3.1 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.020 |
| Chromium | 966 J | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.018 |
| Copper | 106 | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.096 |
| Nickel | 101 K | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.033 |
| Lead | 111 | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.011 |
| Antimony | 2.3 J | 0.58 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | | MDL.....: 0.0076 |

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ms
8/10/09

2

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

TOTAL Metals

Lot-Sample #...: C9F090183-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.66 B L | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.15 | |
| Thallium | 0.030 B J | 0.29 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0058 | |
| Zinc | 374 J | 1.5 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLG1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.19 | |

Prep Batch #...: 9161192

| | | | | | | |
|---------|----|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | ND | 0.019 | mg/kg | SW846 7471A | 06/10/09 | LEKLG1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:49 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0063 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

I Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

hw
8/10/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

TOTAL Metals

Lot-Sample #....: C9F090183-003

Matrix.....: SOLID

Date Sampled....: 06/08/09

Date Received...: 06/09/09

% Moisture.....: 20

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9160627 | | | | | | |
| Silver | 0.23 <i>J</i> | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.012 | |
| Arsenic | 4.4 <i>J</i> | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.057 | |
| Beryllium | 0.38 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.023 | |
| Cadmium | 2.3 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.022 | |
| Chromium | 254 <i>J</i> | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.019 | |
| Copper | 64.1 | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.10 | |
| Nickel | 51.9 <i>K</i> | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.035 | |
| Lead | 112 | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.012 | |
| Antimony | 1.1 <i>J</i> | 0.62 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0081 | |

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lew
8/10/09

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

TOTAL Metals

Lot-Sample #...: C9F090183-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.38 PL | 1.6 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.16 | |
| Thallium | 0.039 BJ | 0.31 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.0062 | |
| Zinc | 446 BJ | 1.6 | mg/kg | SW846 6020 | 06/09-06/10/09 | LEKLH1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:29 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9160347 | MDL.....: 0.20 | |

Prep Batch #...: 9161192

| | | | | | | |
|---------|------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.44 | 0.021 | mg/kg | SW846 7471A | 06/10/09 | LEKLH1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 14:39 | Analyst ID.....: 403938 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9161105 | MDL.....: 0.0068 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Handwritten signature
8/15/09

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F090183

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B02-12 | C9F090183-001 | Soil |
| 1MS | CT-SO-B02-12MS | C9F090183-001MS | Soil |
| 1MSD | CT-SO-B02-12MSD | C9F090183-001MSD | Soil |
| 2 | CT-SO-B02-16 | C9F090183-002 | Soil |
| 3 | CT-SO-B02-20 | C9F090183-003 | Soil |
| 3DL | CT-SO-B02-20DL | C9F090183-003DL | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier |
|------------------|-------------|---------------|-----------|
| 1 | Naphthalene | 232%/224%/Ok | K |

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target analytes. No qualifiers were required.

Several samples exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed these samples. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-001 Work Order #....: LEKLD1AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 13:20 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 09:40
 Dilution Factor: 1 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

REPORTING

| PARAMETER | RESULT | LIMIT | UNITS | MDL |
|--------------------------|--------|-------|-------|------|
| 1-Methylnaphthalene | 75 | 7.9 | ug/kg | 1.2 |
| 2-Methylnaphthalene | 180 | 7.9 | ug/kg | 1.6 |
| Naphthalene | 1500 K | 7.9 | ug/kg | 1.2 |
| Acenaphthylene | 87 | 7.9 | ug/kg | 1.6 |
| Acenaphthene | 27 | 7.9 | ug/kg | 1.3 |
| Fluorene | 59 | 7.9 | ug/kg | 1.2 |
| Phenanthrene | 290 | 7.9 | ug/kg | 0.94 |
| Anthracene | 72 | 39 | ug/kg | 1.4 |
| Fluoranthene | 360 | 7.9 | ug/kg | 0.67 |
| Pyrene | 240 | 7.9 | ug/kg | 2.1 |
| Benzo (a) anthracene | 150 | 7.9 | ug/kg | 1.3 |
| Chrysene | 160 | 7.9 | ug/kg | 1.4 |
| Benzo (b) fluoranthene | 190 | 7.9 | ug/kg | 1.6 |
| Benzo (k) fluoranthene | ND | 7.9 | ug/kg | 1.6 |
| Benzo (a) pyrene | 110 | 7.9 | ug/kg | 2.2 |
| Indeno (1,2,3-cd) pyrene | 72 | 7.9 | ug/kg | 0.44 |
| Dibenzo (a,h) anthracene | 26 | 7.9 | ug/kg | 1.7 |
| Benzo (ghi) perylene | 82 | 7.9 | ug/kg | 0.58 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 58 | (27 - 110) |
| Terphenyl-d14 | 53 | (21 - 130) |
| 2-Fluorobiphenyl | 54 | (28 - 108) |
| 2-Fluorophenol | 41 | (28 - 107) |
| Phenol-d5 | 55 | (30 - 112) |
| 2,4,6-Tribromophenol | 9.7 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.
 Results and reporting limits have been adjusted for dry weight.

luw
8/12/09

2

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-002 Work Order #....: LEKLG1AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 14:00 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 10:00
 Dilution Factor: 74.5 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 14 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 6700 | 580 | ug/kg | 87 |
| 2-Methylnaphthalene | 16000 | 580 | ug/kg | 110 |
| Naphthalene | 110000 | 580 | ug/kg | 84 |
| Acenaphthylene | 14000 | 580 | ug/kg | 110 |
| Acenaphthene | 910 | 580 | ug/kg | 93 |
| Fluorene | 7100 | 580 | ug/kg | 87 |
| Phenanthrene | 16000 | 580 | ug/kg | 69 |
| Anthracene | 4500 | 2900 | ug/kg | 100 |
| Fluoranthene | 9700 | 580 | ug/kg | 49 |
| Pyrene | 6000 | 580 | ug/kg | 150 |
| Benzo (a) anthracene | 3800 | 580 | ug/kg | 92 |
| Chrysene | 3300 | 580 | ug/kg | 100 |
| Benzo (b) fluoranthene | 4000 | 580 | ug/kg | 120 |
| Benzo (k) fluoranthene | ND | 580 | ug/kg | 120 |
| Benzo (a) pyrene | 3000 | 580 | ug/kg | 160 |
| Indeno (1,2,3-cd) pyrene | 1400 | 580 | ug/kg | 32 |
| Dibenzo (a, h) anthracene | 310 J | 580 | ug/kg | 130 |
| Benzo (ghi) perylene | 1400 | 580 | ug/kg | 42 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

uw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Semivolatiles

Lot-Sample #...: C9F090183-003 Work Order #...: LEKLH1AC Matrix.....: SOLID
 Date Sampled...: 06/08/09 14:20 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #...: 9163010 Analysis Time...: 10:21
 Dilution Factor: 150 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------------------|--------------------|-------|-----|
| 1-Methylnaphthalene | 36000 | 1300 | ug/kg | 190 |
| 2-Methylnaphthalene | 90000 | 1300 | ug/kg | 250 |
| Naphthalene | 660000 500000 E 6300 | 1300 | ug/kg | 180 |
| Acenaphthylene | 83000 | 1300 | ug/kg | 250 |
| Acenaphthene | 4400 | 1300 | ug/kg | 200 |
| Fluorene | 45000 | 1300 | ug/kg | 190 |
| Phenanthrene | 110000 | 1300 | ug/kg | 150 |
| Anthracene | 33000 | 6200 | ug/kg | 220 |
| Fluoranthene | 73000 | 1300 | ug/kg | 110 |
| Pyrene | 43000 | 1300 | ug/kg | 330 |
| Benzo (a) anthracene | 29000 | 1300 | ug/kg | 200 |
| Chrysene | 24000 | 1300 | ug/kg | 220 |
| Benzo (b) fluoranthene | 29000 | 1300 | ug/kg | 250 |
| Benzo (k) fluoranthene | ND | 1300 | ug/kg | 260 |
| Benzo (a) pyrene | 22000 | 1300 | ug/kg | 350 |
| Indeno (1,2,3-cd) pyrene | 10000 | 1300 | ug/kg | 69 |
| Dibenzo (a,h) anthracene | 3400 | 1300 | ug/kg | 280 |
| Benzo (ghi) perylene | 9500 | 1300 | ug/kg | 92 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20 DL

GC/MS Semivolatiles

Lot-Sample #....: C9F090183-003 Work Order #....: LEKLH2AC Matrix.....: SOLID
 Date Sampled....: 06/08/09 14:20 Date Received...: 06/09/09 09:50 MS Run #.....: 9163002
 Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
 Prep Batch #....: 9163010 Analysis Time...: 11:22
 Dilution Factor: 750 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|------|
| 1-Methylnaphthalene | 29000 | 6300 | ug/kg | 940 |
| 2-Methylnaphthalene | 72000 | 6300 | ug/kg | 1200 |
| Naphthalene | 660000 | 6300 | ug/kg | 910 |
| Acenaphthylene | 64000 | 6300 | ug/kg | 1200 |
| Acenaphthene | 3800 J | 6300 | ug/kg | 1000 |
| Fluorene | 34000 | 6300 | ug/kg | 940 |
| Phenanthrene | 82000 | 6300 | ug/kg | 750 |
| Anthracene | 26000 J | 31000 | ug/kg | 1100 |
| Fluoranthene | 57000 | 6300 | ug/kg | 530 |
| Pyrene | 33000 | 6300 | ug/kg | 1700 |
| Benzo (a) anthracene | 23000 | 6300 | ug/kg | 1000 |
| Chrysene | 20000 | 6300 | ug/kg | 1100 |
| Benzo (b) fluoranthene | 24000 | 6300 | ug/kg | 1300 |
| Benzo (k) fluoranthene | ND | 6300 | ug/kg | 1300 |
| Benzo (a) pyrene | 16000 | 6300 | ug/kg | 1700 |
| Indeno (1,2,3-cd) pyrene | 8500 | 6300 | ug/kg | 340 |
| Dibenzo (a,h) anthracene | 3100 J | 6300 | ug/kg | 1400 |
| Benzo (ghi) perylene | 8200 | 6300 | ug/kg | 460 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F090183

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B02-12 | C9F090183-001 | Soil |
| 2 | CT-SO-B02-16 | C9F090183-002 | Soil |
| 3 | CT-SO-B02-20 | C9F090183-003 | Soil |
| 4 | TRIP BLANK | C9F090183-004 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-3 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|-------------------------|-----------|-----------|-------------------------------|
| 06/11/09 | Dichlorodifluoromethane | 27.6% | None | All ND |
| | Chloroethane | 44.9% | None | All ND |
| | Acrolein | 0.022 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 26.4% | None | All ND |
| 06/12/09 | 2-Butanone | 27.6% | None | All ND |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/12/09 | Bromoform | 37.5% | None | All ND |
| | 1,1,2,2-Tetrachloroethane | 35.1% | None | All ND |
| | Acrolein | 44.3%/0.039 RRF | None | Already qualified due to ICAL |
| | 2-Chloroethyl vinyl ether | 35.3% | None | All ND |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank -The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|----------|----------------|-----------------------|-----------|------------------|
| MBLK | Toluene | 230 | 1150 | B | 1 |

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|------------|--------------------|----------------|-----------------------|-----------|------------------|
| TRIP BLANK | Methylene chloride | 1.1 | 11 | None | All ND |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - Several samples were analyzed at various dilutions due to high concentrations of target analytes. No qualifiers were required.

Maryland Environmental Service


Client Sample ID: CT-SO-B02-12

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-001 | Work Order #....: LEKLD1AU | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 08:08 | |
| Dilution Factor: 1.08 | Initial Wgt/Vol: 4.62 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------------|--------------------|-------|------|
| Acrolein | ND R | 6400 | ug/kg | 1000 |
| Acrylonitrile | ND | 6400 | ug/kg | 520 |
| Benzene | 170 J | 320 | ug/kg | 63 |
| Bromodichloromethane | ND | 320 | ug/kg | 60 |
| Bromoform | ND | 320 | ug/kg | 68 |
| Bromomethane | ND | 320 | ug/kg | 100 |
| 2-Butanone (MEK) | ND | 320 | ug/kg | 69 |
| Carbon tetrachloride | ND | 320 | ug/kg | 69 |
| Chloroethane | ND | 320 | ug/kg | 48 |
| 2-Chloroethyl vinyl ether | ND | 640 | ug/kg | 71 |
| Chloroform | ND | 320 | ug/kg | 65 |
| Chloromethane | ND | 320 | ug/kg | 59 |
| Dibromochloromethane | ND | 320 | ug/kg | 42 |
| 1,2-Dichlorobenzene | ND | 320 | ug/kg | 44 |
| 1,3-Dichlorobenzene | ND | 320 | ug/kg | 32 |
| 1,4-Dichlorobenzene | ND | 320 | ug/kg | 34 |
| trans-1,2-Dichloroethene | ND | 320 | ug/kg | 48 |
| Dichlorodifluoromethane | ND | 320 | ug/kg | 41 |
| 1,1-Dichloroethane | ND | 320 | ug/kg | 65 |
| 1,2-Dichloroethane | ND | 320 | ug/kg | 61 |
| 1,1-Dichloroethene | ND | 320 | ug/kg | 68 |
| 1,2-Dichloropropane | ND | 320 | ug/kg | 82 |
| cis-1,3-Dichloropropene | ND | 320 | ug/kg | 47 |
| trans-1,3-Dichloropropene | ND | 320 | ug/kg | 37 |
| Ethylbenzene | ND | 320 | ug/kg | 40 |
| Methylene chloride | ND | 320 | ug/kg | 70 |
| 1,1,2,2-Tetrachloroethane | ND | 320 | ug/kg | 60 |
| Tetrachloroethene | ND | 320 | ug/kg | 53 |
| Toluene | 400 ND B | 320 | ug/kg | 54 |
| 1,1,1-Trichloroethane | ND | 320 | ug/kg | 66 |
| 1,1,2-Trichloroethane | ND | 320 | ug/kg | 74 |
| Trichloroethene | ND | 320 | ug/kg | 51 |
| Trichlorofluoromethane | ND | 320 | ug/kg | 72 |
| Vinyl chloride | ND | 320 | ug/kg | 83 |

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 8/10/09

Maryland Environmental Service

Client Sample ID: CT-SO-B02-12

GC/MS Volatiles

Lot-Sample #...: C9F090183-001 Work Order #...: LEKLD1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 75 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 99 | (63 - 120) |
| Dibromofluoromethane | 85 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

lew
8/10/09

Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Volatiles

Lot-Sample #....: C9F090183-002 Work Order #....: LEXLGL1AU Matrix.....: SOLID
Date Sampled...: 06/08/09 Date Received...: 06/09/09 MS Run #.....:
Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
Prep Batch #....: 9163096 Analysis Time...: 08:31
Dilution Factor: 1.05 Initial Wgt/Vol: 4.75 g Final Wgt/Vol...: 5 mL
% Moisture.....: 14 Analyst ID.....: 010099 Instrument ID...: HP4
Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-----------------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND R | 6100 | ug/kg | 970 |
| Acrylonitrile | ND | 6100 | ug/kg | 490 |
| Benzene | 1600 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 57 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 96 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 66 |
| Carbon tetrachloride | ND | 300 | ug/kg | 66 |
| Chloroethane | ND | 300 | ug/kg | 46 |
| 2-Chloroethyl vinyl ether | ND | 610 | ug/kg | 68 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 57 |
| Dibromochloromethane | ND | 300 | ug/kg | 40 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 42 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 46 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 39 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 62 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 65 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 78 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 36 |
| Ethylbenzene | 290 J | 300 | ug/kg | 38 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 57 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 4500 B | 300 | ug/kg | 52 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 63 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 71 |
| Trichloroethene | ND | 300 | ug/kg | 49 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 79 |

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Maryland Environmental Service

Client Sample ID: CT-SO-B02-16

GC/MS Volatiles

Lot-Sample #....: C9F090183-002 Work Order #....: LEKLG1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 76 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

fw
8/10/09
16

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F090183-003 | Work Order #....: LEKLH1AU | Matrix.....: SOLID |
| Date Sampled....: 06/08/09 | Date Received...: 06/09/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 08:54 | |
| Dilution Factor: 5.79 | Initial Wgt/Vol: 4.32 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------|--------------------|-------|------|
| Acrolein | ND R | 36000 | ug/kg | 5700 |
| Acrylonitrile | ND | 36000 | ug/kg | 2900 |
| Benzene | 13000 | 1800 | ug/kg | 360 |
| Bromodichloromethane | ND | 1800 | ug/kg | 340 |
| Bromoform | ND | 1800 | ug/kg | 390 |
| Bromomethane | ND | 1800 | ug/kg | 570 |
| 2-Butanone (MEK) | ND | 1800 | ug/kg | 390 |
| Carbon tetrachloride | ND | 1800 | ug/kg | 390 |
| Chloroethane | ND | 1800 | ug/kg | 270 |
| 2-Chloroethyl vinyl ether | ND | 3600 | ug/kg | 400 |
| Chloroform | ND | 1800 | ug/kg | 360 |
| Chloromethane | ND | 1800 | ug/kg | 340 |
| Dibromochloromethane | ND | 1800 | ug/kg | 230 |
| 1,2-Dichlorobenzene | ND | 1800 | ug/kg | 250 |
| 1,3-Dichlorobenzene | ND | 1800 | ug/kg | 180 |
| 1,4-Dichlorobenzene | ND | 1800 | ug/kg | 190 |
| trans-1,2-Dichloroethene | ND | 1800 | ug/kg | 270 |
| Dichlorodifluoromethane | ND | 1800 | ug/kg | 230 |
| 1,1-Dichloroethane | ND | 1800 | ug/kg | 370 |
| 1,2-Dichloroethane | ND | 1800 | ug/kg | 350 |
| 1,1-Dichloroethene | ND | 1800 | ug/kg | 390 |
| 1,2-Dichloropropane | ND | 1800 | ug/kg | 460 |
| cis-1,3-Dichloropropene | ND | 1800 | ug/kg | 260 |
| trans-1,3-Dichloropropene | ND | 1800 | ug/kg | 210 |
| Ethylbenzene | 1700 J | 1800 | ug/kg | 220 |
| Methylene chloride | ND | 1800 | ug/kg | 390 |
| 1,1,2,2-Tetrachloroethane | ND | 1800 | ug/kg | 340 |
| Tetrachloroethene | ND | 1800 | ug/kg | 300 |
| Toluene | 33000 F | 1800 | ug/kg | 310 |
| 1,1,1-Trichloroethane | ND | 1800 | ug/kg | 370 |
| 1,1,2-Trichloroethane | ND | 1800 | ug/kg | 420 |
| Trichloroethene | ND | 1800 | ug/kg | 290 |
| Trichlorofluoromethane | ND | 1800 | ug/kg | 400 |
| Vinyl chloride | ND | 1800 | ug/kg | 470 |

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lew
8/10/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B02-20

GC/MS Volatiles

Lot-Sample #...: C9F090183-003 Work Order #...: LEKLH1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 112 | (72 - 127) |
| 4-Bromofluorobenzene | 105 | (63 - 120) |
| Dibromofluoromethane | 90 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

4

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F090183-004 Work Order #....: LEK1K1AA Matrix.....: WATER
 Date Sampled....: 06/08/09 Date Received...: 06/09/09 MS Run #.....: 9162189
 Prep Date.....: 06/11/09 Analysis Date...: 06/11/09
 Prep Batch #....: 9162407 Analysis Time...: 15:31
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | 1.1 J | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

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Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F090183-004 Work Order #....: LEK1K1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 95 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 97 | (75 - 120) |
| Dibromofluoromethane | 100 | (80 - 120) |

NOTE(S) :

J Estimated result. Result is less than RL.

lw
20 8/10/09

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9E300194

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 10, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9E300194

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on May 30, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, several samples were analyzed as medium level.

The method blank for batch 9152044 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, several samples were analyzed at a dilution. The samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9E300194

GC/MS Semivolatiles cont.:

The continuing calibration standard N06010CC had compounds with a %D > 25%; but were within expected performance range for these compounds.

Metals:

The serial dilution percent difference for CT-SO-B03-10 was outside the control limit for arsenic, copper, nickel, antimony and zinc.

The samples were analyzed at a dilution for the 6020 analysis due to matrix interference.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony, arsenic, chromium, and nickel. The matrix spike duplicate recovered outside the control limit for cadmium and mercury. The RPD recovered outside the control limit for selenium and mercury.

For the matrix spike and matrix spike duplicate, chromium, copper, lead, and zinc recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9E300194

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9E300194

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LD3R6 | 001 | CT-SO-B03-10 | 05/29/09 | 13:00 |
| LD3R8 | 002 | CT-SO-DUP1 | 05/29/09 | |
| LD3R9 | 003 | CT-SO-B03-20 | 05/29/09 | 14:30 |
| LD3TA | 004 | CT-SO-B03-22 | 05/29/09 | 15:00 |

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

[illegible]

Cooler Receipt Form

TestAmerica Pittsburgh

Client: E.A. Engineering Project: _____ Quote: 82013

Cooler Rec'd & Opened for Temp. Check on: 5/30/09

Coolers Opened and Unpacked on: 5/30/09 By: PLF

(Signature)

TestAmerica Pittsburgh Lot Number: C9E300194

- | | Yes | No | NA |
|---|-------------------------------------|----|-------------------------------------|
| 1. Were custody seals on the outside of the cooler? _____ | | | <input checked="" type="checkbox"/> |
| If YES, how many and where? Quantity ____ Location _____ | | | |
| Were signatures and date correct? _____ | | | <input checked="" type="checkbox"/> |
| 2. Were custody papers included inside the cooler? _____ | <input checked="" type="checkbox"/> | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | <input checked="" type="checkbox"/> | | |
| 4. Did you sign the custody papers in the appropriate place? _____ | <input checked="" type="checkbox"/> | | |
| 5. Was shippers packing slip attached to this form? _____ | <input checked="" type="checkbox"/> | | |
| 6. Were packing materials used? _____ | <input checked="" type="checkbox"/> | | |
| If YES, what type? <u>Bubble Wrap</u> | | | |
| 7. Were the samples received within the acceptable temperature range? | <input checked="" type="checkbox"/> | | |
| 8. Were the samples appropriately preserved? _____ | | | <input checked="" type="checkbox"/> |
| 9. Were all bottles sealed in separate plastic bags? _____ | | | <input checked="" type="checkbox"/> |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | <input checked="" type="checkbox"/> | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | <input checked="" type="checkbox"/> | | |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | <input checked="" type="checkbox"/> | | |
| 13. Were correct bottles used for tests indicated? _____ | <input checked="" type="checkbox"/> | | |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | | | <input checked="" type="checkbox"/> |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | <input checked="" type="checkbox"/> | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid

Hydrochloric Acid _____

Sulfuric Acid

Sodium Hydroxide

FedEx *US Airbill*
Express

8694 4003 0583

0200

Form
10 No.

FedEx Retrieval Copy

1 From
Date 5/29/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name Steve Yankay Phone 717 487-6632
Company EA Engineering
Address 15 Loveton Circle Dept./Floor/Suite/Room
City Sparks State MD ZIP 21152

2 Your Internal Billing Reference 1453406.0001.0004B

3 To
Recipient's Name Sample Receiving Phone 412 963-2431
Company Test America
Recipient's Address 301 Alpha Drive Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
To request a package be held at a specific FedEx location, print FedEx address here.
City Pittsburgh State PA ZIP 15238



8694 4003 0583

4a Express Package Service *Packages up to 150 lbs.*
☒ **FedEx Priority Overnight** Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx Standard Overnight** Next business afternoon.* Saturday Delivery NOT available.
☐ **FedEx First Overnight** Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
☐ **FedEx 2Day** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx Express Saver** Third business day.* Saturday Delivery NOT available.
* To most locations.
FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service *Packages over 150 lbs.*
☐ **FedEx 1Day Freight*** Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx 2Day Freight** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **FedEx 3Day Freight** Third business day.* Saturday Delivery NOT available.
* Call for Confirmation. ** To most locations.

5 Packaging
☐ **FedEx Envelope*** ☐ **FedEx Pak*** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. ☐ **FedEx Box** ☐ **FedEx Tube** ☒ **Other**
* Declared value limit \$500.

6 Special Handling *Include FedEx address in Section 3.*
☒ **SATURDAY Delivery** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
☐ **HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.
☐ **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods?
One box must be checked.
☒ **No** ☐ **Yes** As per attached Shipper's Declaration ☐ **Yes** Shipper's Declaration not required.
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.
☐ **Dry Ice** Dry ice, 9 UN 1845 x kg ☐ **Cargo Aircraft Only**

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
☒ **Sender** Acct. No. in Section 1 will be billed. ☐ **Recipient** ☐ **Third Party** ☐ **Credit Card** ☐ **Cash/Check**

Total Packages 1 Total Weight 4.2

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options *If you require a signature, check Direct or Indirect.*
☐ **No Signature Required** Package may be left without obtaining a signature for delivery. ☐ **Direct Signature** Someone at recipient's address may sign for delivery. Fee applies. ☐ **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
520

Rev. Date 10/09-Part #156281-©1994-2006 FedEx-PRINTED IN U.S.A. SRY

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-001 | Work Order #....: LD3R61AU | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: 9152043 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152044 | Analysis Time...: 12:07 | |
| Dilution Factor: 0.99 | Initial Wgt/Vol: 5.03 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 14 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|-------------|
| Acrolein | ND | 110 | ug/kg | 8.1 |
| Acrylonitrile | ND | 110 | ug/kg | 12 |
| Benzene | ND | 5.7 | ug/kg | 0.77 |
| Bromodichloromethane | ND | 5.7 | ug/kg | 0.64 |
| Bromoform | ND | 5.7 | ug/kg | 0.51 |
| Bromomethane | ND | 5.7 | ug/kg | 0.85 |
| 2-Butanone (MEK) | ND | 5.7 | ug/kg | 1.0 |
| Carbon tetrachloride | ND | 5.7 | ug/kg | 0.51 |
| Chloroethane | ND | 5.7 | ug/kg | 1.8 |
| 2-Chloroethyl vinyl ether | ND | 11 | ug/kg | 0.89 |
| Chloroform | ND | 5.7 | ug/kg | 0.67 |
| Chloromethane | ND | 5.7 | ug/kg | 0.98 |
| Dibromochloromethane | ND | 5.7 | ug/kg | 0.81 |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/kg | 0.91 |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/kg | 0.75 |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/kg | 0.73 |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/kg | 0.68 |
| Dichlorodifluoromethane | ND | 5.7 | ug/kg | 0.76 |
| 1,1-Dichloroethane | ND | 5.7 | ug/kg | 0.66 |
| 1,2-Dichloroethane | ND | 5.7 | ug/kg | 0.70 |
| 1,1-Dichloroethene | ND | 5.7 | ug/kg | 0.97 |
| 1,2-Dichloropropane | ND | 5.7 | ug/kg | 0.62 |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/kg | 0.78 |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/kg | 0.69 |
| Ethylbenzene | ND | 5.7 | ug/kg | 0.74 |
| Methylene chloride | 2.0 J,B | 5.7 | ug/kg | 0.77 |
| 1,1,2,2-Tetrachloroethane | ND | 5.7 | ug/kg | 0.82 |
| Tetrachloroethene | ND | 5.7 | ug/kg | 0.78 |
| Toluene | ND | 5.7 | ug/kg | 0.84 |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/kg | 0.56 |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/kg | 0.95 |
| Trichloroethene | 2.6 J | 5.7 | ug/kg | 0.75 |
| Trichlorofluoromethane | ND | 5.7 | ug/kg | 1.1 |
| Vinyl chloride | ND | 5.7 | ug/kg | 0.54 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Volatiles

Lot-Sample #...: C9E300194-001 Work Order #...: LD3R61AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT</u> | <u>RECOVERY</u> |
|-----------------------|-----------------|-----------------|
| | <u>RECOVERY</u> | <u>LIMITS</u> |
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 92 | (72 - 127) |
| 4-Bromofluorobenzene | 88 | (63 - 120) |
| Dibromofluoromethane | 102 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-002 | Work Order #....: LD3R81AU | Matrix.....: SOLID |
| Date Sampled...: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: |
| Prep Date.....: 06/02/09 | Analysis Date...: 06/02/09 | |
| Prep Batch #....: 9154132 | Analysis Time...: 18:20 | |
| Dilution Factor: 0.99 | Initial Wgt/Vol: 5.05 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 13 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|-----------|
| Acrolein | ND | 5700 | ug/kg | 900 |
| Acrylonitrile | ND | 5700 | ug/kg | 460 |
| Benzene | 400 | 280 | ug/kg | 56 |
| Bromodichloromethane | ND | 280 | ug/kg | 53 |
| Bromoform | ND | 280 | ug/kg | 61 |
| Bromomethane | ND | 280 | ug/kg | 90 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 62 |
| Carbon tetrachloride | ND | 280 | ug/kg | 62 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 570 | ug/kg | 63 |
| Chloroform | ND | 280 | ug/kg | 57 |
| Chloromethane | ND | 280 | ug/kg | 53 |
| Dibromochloromethane | ND | 280 | ug/kg | 37 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 39 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 30 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 43 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 36 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 58 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 55 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 61 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 72 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 41 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 33 |
| Ethylbenzene | 120 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 62 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 53 |
| Tetrachloroethene | ND | 280 | ug/kg | 47 |
| Toluene | 560 | 280 | ug/kg | 48 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 59 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 66 |
| Trichloroethene | ND | 280 | ug/kg | 46 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 64 |
| Vinyl chloride | ND | 280 | ug/kg | 73 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Volatiles

Lot-Sample #...: C9E300194-002 Work Order #...: LD3R81AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 91 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-003 | Work Order #....: LD3R91AU | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: |
| Prep Date.....: 06/02/09 | Analysis Date...: 06/02/09 | |
| Prep Batch #....: 9154132 | Analysis Time...: 18:44 | |
| Dilution Factor: 0.98 | Initial Wgt/Vol: 5.11 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 5800 | ug/kg | 930 |
| Acrylonitrile | ND | 5800 | ug/kg | 470 |
| Benzene | 680 | 290 | ug/kg | 58 |
| Bromodichloromethane | ND | 290 | ug/kg | 54 |
| Bromoform | ND | 290 | ug/kg | 62 |
| Bromomethane | ND | 290 | ug/kg | 92 |
| 2-Butanone (MEK) | ND | 290 | ug/kg | 63 |
| Carbon tetrachloride | ND | 290 | ug/kg | 63 |
| Chloroethane | ND | 290 | ug/kg | 44 |
| 2-Chloroethyl vinyl ether | ND | 580 | ug/kg | 65 |
| Chloroform | ND | 290 | ug/kg | 59 |
| Chloromethane | ND | 290 | ug/kg | 54 |
| Dibromochloromethane | ND | 290 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 290 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 290 | ug/kg | 30 |
| 1,4-Dichlorobenzene | ND | 290 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 290 | ug/kg | 44 |
| Dichlorodifluoromethane | ND | 290 | ug/kg | 37 |
| 1,1-Dichloroethane | ND | 290 | ug/kg | 59 |
| 1,2-Dichloroethane | ND | 290 | ug/kg | 56 |
| 1,1-Dichloroethene | ND | 290 | ug/kg | 62 |
| 1,2-Dichloropropane | ND | 290 | ug/kg | 75 |
| cis-1,3-Dichloropropene | ND | 290 | ug/kg | 42 |
| trans-1,3-Dichloropropene | ND | 290 | ug/kg | 34 |
| Ethylbenzene | 120 J | 290 | ug/kg | 36 |
| Methylene chloride | ND | 290 | ug/kg | 64 |
| 1,1,2,2-Tetrachloroethane | ND | 290 | ug/kg | 55 |
| Tetrachloroethene | ND | 290 | ug/kg | 48 |
| Toluene | 740 | 290 | ug/kg | 49 |
| 1,1,1-Trichloroethane | ND | 290 | ug/kg | 60 |
| 1,1,2-Trichloroethane | ND | 290 | ug/kg | 68 |
| Trichloroethene | ND | 290 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 290 | ug/kg | 65 |
| Vinyl chloride | ND | 290 | ug/kg | 75 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Volatiles

Lot-Sample #...: C9E300194-003 Work Order #...: LD3R91AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 91 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 101 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-004 | Work Order #....: LD3TA1AU | Matrix.....: SOLID |
| Date Sampled...: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: |
| Prep Date.....: 06/02/09 | Analysis Date...: 06/02/09 | |
| Prep Batch #....: 9154132 | Analysis Time...: 19:08 | |
| Dilution Factor: 0.97 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 14 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-------------|--------------------|--------------|-----------|
| Acrolein | ND | 5700 | ug/kg | 900 |
| Acrylonitrile | ND | 5700 | ug/kg | 460 |
| Benzene | 320 | 280 | ug/kg | 56 |
| Bromodichloromethane | ND | 280 | ug/kg | 53 |
| Bromoform | ND | 280 | ug/kg | 61 |
| Bromomethane | ND | 280 | ug/kg | 89 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 61 |
| Carbon tetrachloride | ND | 280 | ug/kg | 61 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 570 | ug/kg | 63 |
| Chloroform | ND | 280 | ug/kg | 57 |
| Chloromethane | ND | 280 | ug/kg | 53 |
| Dibromochloromethane | ND | 280 | ug/kg | 37 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 39 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 30 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 43 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 36 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 57 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 54 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 60 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 72 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 41 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 33 |
| Ethylbenzene | 95 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 62 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 53 |
| Tetrachloroethene | ND | 280 | ug/kg | 47 |
| Toluene | 430 | 280 | ug/kg | 48 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 58 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 66 |
| Trichloroethene | ND | 280 | ug/kg | 45 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 63 |
| Vinyl chloride | ND | 280 | ug/kg | 73 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Volatiles

Lot-Sample #...: C9E300194-004 Work Order #...: LD3TA1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 106 | (72 - 127) |
| 4-Bromofluorobenzene | 104 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E300194

Extraction: XXA15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 86 | 87 | 81 | 93 | 00 |
| 02 | METHOD BLK. LD4CA1AA | 96 | 89 | 85 | 103 | 00 |
| 03 | LCS LD4CA1AC | 94 | 89 | 81 | 97 | 00 |
| 04 | LAB MS/MSD D | 88 | 94 | 82 | 95 | 00 |
| 05 | LAB MS/MSD S | 88 | 86 | 78 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E300194

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-DUP1 | 91 | 105 | 102 | 99 | 00 |
| 02 | CT-SO-B03-20 | 91 | 104 | 102 | 101 | 00 |
| 03 | CT-SO-B03-22 | 87 | 106 | 104 | 98 | 00 |
| 04 | METHOD BLK. LD7MH1AA | 80 | 100 | 93 | 91 | 00 |
| 05 | LCS LD7MH1AC | 89 | 100 | 93 | 105 | 00 |
| 06 | LCSD LD7MH1AD | 83 | 104 | 98 | 96 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E300194

Extraction: XXA4DQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|--------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B03-10 | 100 | 92 | 88 | 102 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F010000

WO #: LD4CA1AC

BATCH: 9152044

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 40.0 | 42.8 | 107 | 59 - 129 | |
| Trichloroethene | 40.0 | 41.8 | 105 | 76 - 119 | |
| Benzene | 40.0 | 39.8 | 99 | 77 - 120 | |
| Toluene | 40.0 | 35.3 | 88 | 78 - 124 | |
| Chlorobenzene | 40.0 | 35.9 | 90 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030000

WO #: LD7MH1AC

BATCH: 9154132

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2120 | 106 | 59 - 129 | |
| Trichloroethene | 2000 | 2080 | 104 | 76 - 119 | |
| Benzene | 2000 | 2050 | 103 | 77 - 120 | |
| Toluene | 2000 | 2000 | 100 | 78 - 124 | |
| Chlorobenzene | 2000 | 1960 | 98 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F030000

WO #: LD7MH1AD

BATCH: 9154132

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1930 | 96 | 59 - 129 | |
| Trichloroethene | 2000 | 1960 | 98 | 76 - 119 | |
| Benzene | 2000 | 1940 | 97 | 77 - 120 | |
| Toluene | 2000 | 2080 | 104 | 78 - 124 | |
| Chlorobenzene | 2000 | 2070 | 104 | 79 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E300189

WO #: LD3QW1AM

BATCH: 9152044

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 51.1 | ND | 58.0 | 113 | 59 - 129 | |
| Trichloroethene | 51.1 | ND | 54.7 | 107 | 76 - 119 | |
| Benzene | 51.1 | ND | 52.3 | 102 | 77 - 120 | |
| Toluene | 51.1 | ND | 45.5 | 89 | 78 - 124 | |
| Chlorobenzene | 51.1 | ND | 46.6 | 91 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9E300189

WO #: LD3QW1AN

BATCH: 9152044

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|------|
| | ADDED (ug/kg) | CONCENT. (ug/kg) | % REC | % RPD | RPD | REC | |
| 1,1-Dichloroethene | 51.1 | 57.4 | 112 | 0.99 | 25 | 59 - 129 | |
| Trichloroethene | 51.1 | 55.9 | 109 | 2.2 | 21 | 76 - 119 | |
| Benzene | 51.1 | 52.8 | 103 | 0.97 | 20 | 77 - 120 | |
| Toluene | 51.1 | 48.5 | 95 | 6.3 | 21 | 78 - 124 | |
| Chlorobenzene | 51.1 | 49.0 | 96 | 5.0 | 20 | 79 - 120 | |

NOTES (S) :

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LD4CA1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 3060101.D

Lot Number: C9E300194

Date Analyzed: 06/01/09

Time Analyzed: 06:45

Matrix: SOLID

Date Extracted:06/01/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP3

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LD3QW1AL | 3060102.D | 06/01/09 | 07:10 |
| 02 | LAB MS/MSD | LD3QW1AM S | 3060105.D | 06/01/09 | 08:24 |
| 03 | LAB MS/MSD | LD3QW1AN D | 3060106.D | 06/01/09 | 08:48 |
| 04 | CT-SO-B03-10 | LD3R61AU | 3060114.D | 06/01/09 | 12:07 |
| 05 | CHECK SAMPLE | LD4CA1AC C | 3060104.D | 06/01/09 | 07:59 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E300194
 MB Lot-Sample #: C9F010000-044

Work Order #...: LD4CA1AA

Matrix.....: SOLID

Analysis Date...: 06/01/09
 Dilution Factor: 1

Prep Date.....: 06/01/09
 Prep Batch #...: 9152044
 Initial Wgt/Vol: 5 g
 Analyst ID.....: 010099

Analysis Time...: 06:45
 Final Wgt/Vol...: 5 mL
 Instrument ID...: HP3

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------------|------------|--------------|--|--------------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 100 | ug/kg | | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/kg | | SW846 8260B |
| Benzene | ND | 5.0 | ug/kg | | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/kg | | SW846 8260B |
| Bromoform | ND | 5.0 | ug/kg | | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/kg | | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/kg | | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | | SW846 8260B |
| Chloroform | ND | 5.0 | ug/kg | | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/kg | | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/kg | | SW846 8260B |
| Methylene chloride | 2.0 J | 5.0 | ug/kg | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/kg | | SW846 8260B |
| Toluene | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/kg | | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/kg | | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/kg | | SW846 8260B |
| SURROGATE | PERCENT | | RECOVERY | | |
| | RECOVERY | | LIMITS | | |
| 1,2-Dichloroethane-d4 | 96 | | (52 - 124) | | |
| Toluene-d8 | 89 | | (72 - 127) | | |
| 4-Bromofluorobenzene | 85 | | (63 - 120) | | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E300194

Work Order #...: LD4CA1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 103 | (68 - 121) | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LD7MH1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4060201.D

Lot Number: C9E300194

Date Analyzed: 06/02/09

Time Analyzed: 13:19

Matrix: SOLID

Date Extracted: 06/02/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-DUP1 | LD3R81AU | 4060211.D | 06/02/09 | 18:20 |
| 02 | CT-SO-B03-20 | LD3R91AU | 4060212.D | 06/02/09 | 18:44 |
| 03 | CT-SO-B03-22 | LD3TA1AU | 4060213.D | 06/02/09 | 19:08 |
| 04 | CHECK SAMPLE | LD7MH1AC C | 4060202.D | 06/02/09 | 14:00 |
| 05 | DUPLICATE CHECK | LD7MH1AD L | 4060203.D | 06/02/09 | 14:22 |
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COMMENTS:

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E300194
MB Lot-Sample #: C9F030000-132

Work Order #...: LD7MH1AA

Matrix.....: SOLID

Analysis Date...: 06/02/09
Dilution Factor: 1

Prep Date.....: 06/02/09
Prep Batch #...: 9154132
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 13:19
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 80 | (52 - 124) |
| Toluene-d8 | 100 | (72 - 127) |
| 4-Bromofluorobenzene | 93 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9E300194

Work Order #...: LD7MH1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 91 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E300194
 Lab File ID (Standard): CC30601 Date Analyzed: 06/01/09
 Instrument ID: HP3 Time Analyzed: 0604
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

| | IS1 | | IS2 (CBZ) | | IS3 (DCB) | |
|-----------------|--------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 262066 | 7.40 | 70722 | 10.49 | 156932 | 12.81 |
| UPPER LIMIT | 524132 | 7.60 | 141444 | 10.69 | 313864 | 13.01 |
| LOWER LIMIT | 131033 | 7.20 | 35361 | 10.29 | 78466 | 12.61 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 303417 | 7.41 | 83029 | 10.49 | 203316 | 12.81 |
| 02 INTRA-LAB CH | 263594 | 7.40 | 71530 | 10.49 | 160723 | 12.81 |
| 03 CT-SO-B03-10 | 305405 | 7.41 | 81783 | 10.49 | 193990 | 12.81 |
| 04 | | | | | | |
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IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9E300194
 Lab File ID (Standard): 3C40602 Date Analyzed: 06/02/09
 Instrument ID: HP4 Time Analyzed: 1100
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1(CBZ) | | IS2(DCB) | | IS3 | |
|-------------------|----------|-------|----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 203273 | 10.76 | 356664 | 13.09 | 888288 | 7.68 |
| UPPER LIMIT | 406546 | 10.96 | 713328 | 13.29 | 1776576 | 7.88 |
| LOWER LIMIT | 101637 | 10.56 | 178332 | 12.89 | 444144 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 306522 | 10.76 | 564541 | 13.09 | 1436980 | 7.68 |
| 02 INTRA-LAB CH | 202157 | 10.76 | 386251 | 13.09 | 833674 | 7.68 |
| 03 INTRA-LAB CH | 223661 | 10.76 | 402361 | 13.09 | 1001738 | 7.68 |
| 04 CT-SO-DUP1 | 184077 | 10.76 | 333885 | 13.09 | 833430 | 7.68 |
| 05 CT-SO-B03-20 | 181114 | 10.76 | 330888 | 13.09 | 818521 | 7.68 |
| 06 CT-SO-B03-22 | 179031 | 10.76 | 325880 | 13.09 | 827824 | 7.68 |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Semivolatiles

Lot-Sample #....: C9E300194-001 Work Order #....: LD3R61AC Matrix.....: SOLID
 Date Sampled....: 05/29/09 13:00 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 12:28
 Dilution Factor: 0.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 14 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 9.7 | 3.9 | ug/kg | 0.58 |
| 2-Methylnaphthalene | 19 | 3.9 | ug/kg | 0.76 |
| Naphthalene | 160 | 3.9 | ug/kg | 0.56 |
| Acenaphthylene | 15 | 3.9 | ug/kg | 0.77 |
| Acenaphthene | 3.8 J | 3.9 | ug/kg | 0.62 |
| Fluorene | 8.2 | 3.9 | ug/kg | 0.58 |
| Phenanthrene | 160 | 3.9 | ug/kg | 0.46 |
| Anthracene | 26 | 19 | ug/kg | 0.68 |
| Fluoranthene | 320 | 3.9 | ug/kg | 0.33 |
| Pyrene | 200 | 3.9 | ug/kg | 1.0 |
| Benzo(a)anthracene | 140 | 3.9 | ug/kg | 0.62 |
| Chrysene | 170 | 3.9 | ug/kg | 0.68 |
| Benzo(b)fluoranthene | 220 | 3.9 | ug/kg | 0.78 |
| Benzo(k)fluoranthene | ND | 3.9 | ug/kg | 0.80 |
| Benzo(a)pyrene | 110 | 3.9 | ug/kg | 1.1 |
| Indeno(1,2,3-cd)pyrene | 83 | 3.9 | ug/kg | 0.21 |
| Dibenzo(a,h)anthracene | 28 | 3.9 | ug/kg | 0.85 |
| Benzo(ghi)perylene | 86 | 3.9 | ug/kg | 0.28 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 83 | (21 - 130) |
| 2-Fluorobiphenyl | 78 | (28 - 108) |
| 2-Fluorophenol | 44 | (28 - 107) |
| Phenol-d5 | 73 | (30 - 112) |
| 2,4,6-Tribromophenol | 34 | (21 - 116) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Semivolatiles

| | | |
|--|---|---------------------------------|
| Lot-Sample #....: C9E300194-002 | Work Order #....: LD3R81AC | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 | Date Received...: 05/30/09 10:05 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 10:08 | |
| Dilution Factor: 25 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 13 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3300 | 190 | ug/kg | 29 |
| 2-Methylnaphthalene | 8100 | 190 | ug/kg | 38 |
| Naphthalene | 39000 E | 190 | ug/kg | 28 |
| Acenaphthylene | 6600 | 190 | ug/kg | 38 |
| Acenaphthene | 700 | 190 | ug/kg | 31 |
| Fluorene | 5000 | 190 | ug/kg | 29 |
| Phenanthrene | 10000 | 190 | ug/kg | 23 |
| Anthracene | 1600 | 950 | ug/kg | 34 |
| Fluoranthene | 3000 | 190 | ug/kg | 16 |
| Pyrene | 1700 | 190 | ug/kg | 51 |
| Benzo (a) anthracene | 530 | 190 | ug/kg | 31 |
| Chrysene | 580 | 190 | ug/kg | 33 |
| Benzo (b) fluoranthene | 590 | 190 | ug/kg | 39 |
| Benzo (k) fluoranthene | ND | 190 | ug/kg | 40 |
| Benzo (a) pyrene | 420 | 190 | ug/kg | 54 |
| Indeno (1,2,3-cd) pyrene | 220 | 190 | ug/kg | 11 |
| Dibenzo (a,h) anthracene | 61 J | 190 | ug/kg | 42 |
| Benzo (ghi) perylene | 220 | 190 | ug/kg | 14 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1 *DL*

GC/MS Semivolatiles

| | | |
|--|--|----------------------------------|
| Lot-Sample #... : C9E300194-002 | Work Order #... : LD3R82AC | Matrix..... : SOLID |
| Date Sampled... : 05/29/09 | Date Received... : 05/30/09 10:05 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 17:23 | |
| Dilution Factor: 100 | Initial Wgt/Vol: 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 13 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3300 | 770 | ug/kg | 120 |
| 2-Methylnaphthalene | 8100 | 770 | ug/kg | 150 |
| Naphthalene | 40000 | 770 | ug/kg | 110 |
| Acenaphthylene | 7100 | 770 | ug/kg | 150 |
| Acenaphthene | 750 J | 770 | ug/kg | 120 |
| Fluorene | 5200 | 770 | ug/kg | 120 |
| Phenanthrene | 11000 | 770 | ug/kg | 91 |
| Anthracene | 1800 J | 3800 | ug/kg | 130 |
| Fluoranthene | 3200 | 770 | ug/kg | 65 |
| Pyrene | 1900 | 770 | ug/kg | 200 |
| Benzo (a) anthracene | 610 J | 770 | ug/kg | 120 |
| Chrysene | 650 J | 770 | ug/kg | 130 |
| Benzo (b) fluoranthene | 530 J | 770 | ug/kg | 160 |
| Benzo (k) fluoranthene | ND | 770 | ug/kg | 160 |
| Benzo (a) pyrene | 480 J | 770 | ug/kg | 210 |
| Indeno (1,2,3-cd) pyrene | 270 J | 770 | ug/kg | 42 |
| Dibenzo (a,h) anthracene | ND | 770 | ug/kg | 170 |
| Benzo (ghi) perylene | 310 J | 770 | ug/kg | 56 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.
J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Semivolatiles

| | | |
|---|--|---------------------------------|
| Lot-Sample #... : C9E300194-003 | Work Order #... : LD3R91AC | Matrix..... : SOLID |
| Date Sampled... : 05/29/09 14:30 | Date Received... : 05/30/09 10:05 | MS Run #..... : 9152003 |
| Prep Date..... : 06/01/09 | Analysis Date... : 06/01/09 | |
| Prep Batch #... : 9152011 | Analysis Time... : 10:28 | |
| Dilution Factor: 74.5 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture..... : 16 | Analyst ID..... : 003200 | Instrument ID...: 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------|--------------------|-------|-----|
| 1-Methylnaphthalene | 8500 | 600 | ug/kg | 90 |
| 2-Methylnaphthalene | 13000 | 600 | ug/kg | 120 |
| Naphthalene | 81000 | 600 | ug/kg | 86 |
| Acenaphthylene | 31000 | 600 | ug/kg | 120 |
| Acenaphthene | 3700 | 600 | ug/kg | 95 |
| Fluorene | 32000 | 600 | ug/kg | 89 |
| Phenanthrene | 120000 E | 600 | ug/kg | 71 |
| Anthracene | 30000 | 2900 | ug/kg | 100 |
| Fluoranthene | 84000 | 600 | ug/kg | 50 |
| Pyrene | 44000 | 600 | ug/kg | 160 |
| Benzo (a) anthracene | 24000 | 600 | ug/kg | 95 |
| Chrysene | 20000 | 600 | ug/kg | 100 |
| Benzo (b) fluoranthene | 25000 | 600 | ug/kg | 120 |
| Benzo (k) fluoranthene | ND | 600 | ug/kg | 120 |
| Benzo (a) pyrene | 18000 | 600 | ug/kg | 170 |
| Indeno (1,2,3-cd) pyrene | 9500 | 600 | ug/kg | 33 |
| Dibenzo (a,h) anthracene | 3000 | 600 | ug/kg | 130 |
| Benzo (ghi) perylene | 9400 | 600 | ug/kg | 44 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20 DL

GC/MS Semivolatiles

| | | |
|----------------------------------|----------------------------------|--------------------------|
| Lot-Sample #....: C9E300194-003 | Work Order #....: LD3R92AC | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 14:30 | Date Received...: 05/30/09 10:05 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 17:42 | |
| Dilution Factor: 198.68 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 16 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 8800 | 1600 | ug/kg | 240 |
| 2-Methylnaphthalene | 13000 | 1600 | ug/kg | 310 |
| Naphthalene | 81000 | 1600 | ug/kg | 230 |
| Acenaphthylene | 33000 | 1600 | ug/kg | 310 |
| Acenaphthene | 4000 | 1600 | ug/kg | 250 |
| Fluorene | 32000 | 1600 | ug/kg | 240 |
| Phenanthrene | 120000 | 1600 | ug/kg | 190 |
| Anthracene | 30000 | 7800 | ug/kg | 280 |
| Fluoranthene | 79000 | 1600 | ug/kg | 130 |
| Pyrene | 44000 | 1600 | ug/kg | 420 |
| Benzo (a) anthracene | 24000 | 1600 | ug/kg | 250 |
| Chrysene | 21000 | 1600 | ug/kg | 280 |
| Benzo (b) fluoranthene | 25000 | 1600 | ug/kg | 320 |
| Benzo (k) fluoranthene | ND | 1600 | ug/kg | 330 |
| Benzo (a) pyrene | 18000 | 1600 | ug/kg | 440 |
| Indeno (1,2,3-cd) pyrene | 10000 | 1600 | ug/kg | 87 |
| Dibenzo (a,h) anthracene | 3000 | 1600 | ug/kg | 350 |
| Benzo (ghi) perylene | 10000 | 1600 | ug/kg | 120 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9E300194-004 | Work Order #....: LD3TA1AC | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 15:00 | Date Received...: 05/30/09 10:05 | MS Run #.....: 9152003 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152011 | Analysis Time...: 10:48 | |
| Dilution Factor: 35 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 14 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3600 | 270 | ug/kg | 41 |
| 2-Methylnaphthalene | 8500 | 270 | ug/kg | 54 |
| Naphthalene | 43000 | 270 | ug/kg | 40 |
| Acenaphthylene | 7100 | 270 | ug/kg | 54 |
| Acenaphthene | 770 | 270 | ug/kg | 44 |
| Fluorene | 5300 | 270 | ug/kg | 41 |
| Phenanthrene | 11000 | 270 | ug/kg | 33 |
| Anthracene | 1700 | 1400 | ug/kg | 48 |
| Fluoranthene | 3200 | 270 | ug/kg | 23 |
| Pyrene | 1800 | 270 | ug/kg | 73 |
| Benzo (a) anthracene | 540 | 270 | ug/kg | 44 |
| Chrysene | 560 | 270 | ug/kg | 48 |
| Benzo (b) fluoranthene | 550 | 270 | ug/kg | 55 |
| Benzo (k) fluoranthene | ND | 270 | ug/kg | 57 |
| Benzo (a) pyrene | 380 | 270 | ug/kg | 76 |
| Indeno (1,2,3-cd) pyrene | 250 J | 270 | ug/kg | 15 |
| Dibenzo (a,h) anthracene | 68 J | 270 | ug/kg | 60 |
| Benzo (ghi) perylene | 250 J | 270 | ug/kg | 20 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9E300194

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|-----------------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B03-10 | 82 | 83 | 78 | 44 | 73 | 34 | 00 |
| 02 | CT-SO-DUP1 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | CT-SO-DUP1 RE-1 <i>DL</i> | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | CT-SO-B03-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | CT-SO-B03-20 RE-1 <i>DL</i> | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 06 | CT-SO-B03-22 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 07 | METHOD BLK. LD39D1AA | 82 | 84 | 74 | 81 | 83 | 76 | 00 |
| 08 | LCS LD39D1AC | 90 | 81 | 83 | 92 | 93 | 88 | 00 |
| 09 | CT-SO-DUP1 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 10 | CT-SO-DUP1 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F010000

WO #: LD39D1AC

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Phenol | 333 | 312 | 94 | 39- 105 | |
| 2-Chlorophenol | 333 | 276 | 83 | 40- 105 | |
| 1,4-Dichlorobenzene | 333 | 267 | 80 | 41- 101 | |
| N-Nitrosodi-n-propylamine | 333 | 288 | 86 | 42- 108 | |
| 1,2,4-Trichlorobenzene | 333 | 264 | 79 | 41- 105 | |
| 4-Chloro-3-methylphenol | 333 | 284 | 85 | 43- 110 | |
| Acenaphthene | 333 | 274 | 82 | 42- 104 | |
| 4-Nitrophenol | 333 | 324 | 97 | 27- 131 | |
| 2,4-Dinitrotoluene | 333 | 305 | 92 | 48- 118 | |
| Pentachlorophenol | 333 | 267 | 80 | 18- 125 | |
| Pyrene | 333 | 255 | 76 | 39- 113 | |
| 4-Methylphenol | 667 | 579 | 87 | 43- 107 | |
| Hexachloroethane | 333 | 272 | 82 | 40- 102 | |
| Naphthalene | 333 | 273 | 82 | 42- 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 266 | 80 | 43- 111 | |
| Butyl benzyl phthalate | 333 | 270 | 81 | 40- 117 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-DUP1

Level: (low/med) LOW

Lot #: C9E300194

WO #: LD3R81AV

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | 130 | | 0* | 39 - 105 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40 - 117 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 333 | 610 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 333 | 1400 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | 77 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 333 | 34000 | | 0* | 42 - 104 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-DUP1

Level: (low/med) LOW

Lot #: C9E300194

WO #: LD3R81AW

BATCH: 9152011

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LD39D1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0601001.

Lot Number: C9E300194

Date Analyzed: 06/01/09

Time Analyzed: 08:28

Matrix: SOLID

Date Extracted: 06/01/09

GC Column: ID: .00

Extraction Method:

Instrument ID: 733

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B03-10 | LD3R61AC | N0601027. | 06/01/09 | 12:28 |
| 02 | CT-SO-DUP1 | LD3R81AC | N0601004. | 06/01/09 | 10:08 |
| 03 | CT-SO-DUP1 | LD3R81AV S | N0601005. | 06/01/09 | 12:47 |
| 04 | CT-SO-DUP1 | LD3R81AW D | N0601006. | 06/01/09 | 13:07 |
| 05 | CT-SO-DUP1 DL | LD3R82AC | N0601028. | 06/01/09 | 17:23 |
| 06 | CT-SO-B03-20 | LD3R91AC | N0601007. | 06/01/09 | 10:28 |
| 07 | CT-SO-B03-20 DL | LD3R92AC | N0601029. | 06/01/09 | 17:42 |
| 08 | CT-SO-B03-22 | LD3TA1AC | N0601008. | 06/01/09 | 10:48 |
| 09 | CHECK SAMPLE | LD39D1AC C | N0601002. | 06/01/09 | 09:08 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9E300194
MB Lot-Sample #: C9F010000-011

Work Order #....: LD39D1AA

Matrix.....: SOLID

Analysis Date...: 06/01/09

Prep Date.....: 06/01/09

Analysis Time...: 08:28

Dilution Factor: 0.5

Prep Batch #....: 9152011

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 733

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|--------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 84 | (21 - 130) |
| 2-Fluorobiphenyl | 74 | (28 - 108) |
| 2-Fluorophenol | 81 | (28 - 107) |
| Phenol-d5 | 83 | (30 - 112) |
| 2,4,6-Tribromophenol | 76 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9E300194

Lab File ID (Standard): N06010CC

Date Analyzed: 06/01/09

Instrument ID: 733

Time Analyzed: 0809

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 132269 | 4.42 | 535862 | 5.39 | 317857 | 6.73 |
| UPPER LIMIT | 264538 | 4.92 | 1071724 | 5.89 | 635714 | 7.23 |
| LOWER LIMIT | 66135 | 3.92 | 267931 | 4.89 | 158929 | 6.23 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 132510 | 4.42 | 523256 | 5.39 | 316892 | 6.72 |
| 02 INTRA-LAB CH | 116338 | 4.43 | 461325 | 5.40 | 273352 | 6.73 |
| 03 CT-SO-DUP1 | 121114 | 4.43 | 469756 | 5.39 | 285874 | 6.73 |
| 04 CT-SO-B03-20 | 120233 | 4.43 | 471298 | 5.39 | 285142 | 6.73 |
| 05 CT-SO-B03-22 | 130119 | 4.42 | 513843 | 5.39 | 302608 | 6.72 |
| 06 CT-SO-B03-10 | 119964 | 4.45 | 461303 | 5.40 | 293901 | 6.73 |
| 07 CT-SO-DUP1MS | 114713 | 4.42 | 448708 | 5.39 | 270287 | 6.73 |
| 08 CT-SO-DUP1MS | 120132 | 4.42 | 473667 | 5.39 | 287994 | 6.72 |
| 09 CT-SO-DUP1 D | 108675 | 4.42 | 425073 | 5.39 | 247977 | 6.72 |
| 10 CT-SO-B03-20 | 114332 | 4.42 | 437044 | 5.38 | 255514 | 6.72 |
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| 22 | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9E300194
Lab File ID (Standard): N06010CC Date Analyzed: 06/01/09
Instrument ID: 733 Time Analyzed: 0809

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 520490 | 7.86 | 420954 | 9.89 | 320324 | 11.19 |
| UPPER LIMIT | 1040980 | 8.36 | 841908 | 10.39 | 640648 | 11.69 |
| LOWER LIMIT | 260245 | 7.36 | 210477 | 9.39 | 160162 | 10.69 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 510774 | 7.85 | 376050 | 9.88 | 296277 | 11.17 |
| 02 INTRA-LAB CH | 448839 | 7.86 | 384207 | 9.89 | 287714 | 11.19 |
| 03 CT-SO-DUP1 | 487813 | 7.86 | 416449 | 9.88 | 351771 | 11.18 |
| 04 CT-SO-B03-20 | 467071 | 7.86 | 398640 | 9.89 | 323437 | 11.18 |
| 05 CT-SO-B03-22 | 495754 | 7.85 | 414107 | 9.88 | 341391 | 11.17 |
| 06 CT-SO-B03-10 | 474837 | 7.86 | 411974 | 9.89 | 337153 | 11.18 |
| 07 CT-SO-DUP1MS | 459378 | 7.86 | 389505 | 9.88 | 332895 | 11.18 |
| 08 CT-SO-DUP1MS | 490279 | 7.85 | 388619 | 9.87 | 333735 | 11.17 |
| 09 CT-SO-DUP1 D | 410618 | 7.86 | 342271 | 9.87 | 301506 | 11.17 |
| 10 CT-SO-B03-20 | 423235 | 7.85 | 348302 | 9.87 | 299475 | 11.16 |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

TOTAL Metals

Lot-Sample #...: C9E300194-001

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 14

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9152173 | | | | | | |
| Silver | 0.32 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0070 | |
| Arsenic | 4.0 E | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.048 | |
| Beryllium | 0.58 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 2.1 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.026 | |
| Chromium | 1420 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.023 | |
| Copper | 82.5 J,E | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.025 | |
| Nickel | 25.5 E | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 219 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0098 | |
| Antimony | 1.9 E | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0096 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

TOTAL Metals

Lot-Sample #...: C9E300194-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|-------------------------|-------|------------------------|-------------------------------|-----------------|
| Selenium | ND | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AM |
| | | Dilution Factor: 2.5 | | Analysis Time..: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.15 B | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AN |
| | | Dilution Factor: 2.5 | | Analysis Time..: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0058 | |
| Zinc | 640 J,E | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AP |
| | | Dilution Factor: 2.5 | | Analysis Time..: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |

Prep Batch #...: 9153013

| | | | | | | |
|---------|-------|--------------------------|-------|------------------------|-------------------------|----------|
| Mercury | 0.075 | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3R61AR |
| | | Dilution Factor: 0.5 | | Analysis Time..: 08:31 | Analyst ID.....: 031043 | |
| | | Instrument ID..: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0063 | |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

TOTAL Metals

Lot-Sample #...: C9E300194-002

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 13

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #...: 9152173 | | | | | | |
| Silver | 0.086 B | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0069 | |
| Arsenic | 3.2 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.047 | |
| Beryllium | 0.50 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 5.1 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.026 | |
| Chromium | 678 J | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.023 | |
| Copper | 75.2 J | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.024 | |
| Nickel | 36.5 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 244 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0098 | |
| Antimony | 1.3 | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0095 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

TOTAL Metals

Lot-Sample #...: C9E300194-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.38 B | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.034 B | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0057 | |
| Zinc | 1190 J | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |

Prep Batch #...: 9153013

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.023 | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3R81AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:36 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0063 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

TOTAL Metals

Lot-Sample #...: C9E300194-003

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9152173 | | | | | | |
| Silver | 0.23 B | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0072 | |
| Arsenic | 5.5 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.049 | |
| Beryllium | 0.50 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 5.2 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.027 | |
| Chromium | 729 J | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.024 | |
| Copper | 92.0 J | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.025 | |
| Nickel | 44.6 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 384 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.010 | |
| Antimony | 1.7 | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0098 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

TOTAL Metals

Lot-Sample #...: C9E300194-003

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.76 B | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.083 B | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0060 | |
| Zinc | 2090 J | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.035 | |

Prep Batch #...: 9153013

| | | | | | | |
|----------------|--------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.048 | 0.020 | mg/kg | SW846 7471A | 06/02/09 | LD3R91AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:41 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0065 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

TOTAL Metals

Lot-Sample #....: C9E300194-004

Matrix.....: SOLID

Date Sampled....: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 14

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9152173 | | | | | | |
| Silver | 0.39 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0070 | |
| Arsenic | 4.9 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.048 | |
| Beryllium | 0.49 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 11.5 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.027 | |
| Chromium | 626 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.023 | |
| Copper | 106 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.025 | |
| Nickel | 50.6 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 306 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0099 | |
| Antimony | 2.2 | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0096 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

TOTAL Metals

Lot-Sample #...: C9E300194-004

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Selenium | 0.56 B | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| | | | | | | |
| Thallium | 0.027 B | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0058 | |
| | | | | | | |
| Zinc | 2140 J | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |

Prep Batch #...: 9153013

| | | | | | | |
|----------------|--------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.039 | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3TA1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:43 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0064 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------|-------------------------|-------|-------------------------|-------------------------------|-----------------------|
| MB Lot-Sample #: C9F010000-173 Prep Batch #...: 9152173 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | 0.084 B | 0.10 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | 0.015 B | 0.10 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9E300194

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------------|---------|-------------------------|-------|-----------------------|-------------------------------|-----------------|
| Zinc | 0.031 B | 0.25 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD4NE1AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 18:51 | | Analyst ID.....: 400149 | | Instrument ID...: ICP | | |

MB Lot-Sample #: C9F020000-013 Prep Batch #....: 9153013

| | | | | | | |
|-------------------------|----|-------------------------|-------|-----------------------|----------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/02/09 | LD5N61AA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 08:21 | | Analyst ID.....: 031043 | | Instrument ID...: HGH | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|------------|-------------------------------|-------------------------|
| LCS Lot-Sample#: C9F010000-173 Prep Batch #... : 9152173 | | | | | |
| Arsenic | 91 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AP | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 92 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AQ | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 92 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AR | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 101 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AT | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 100 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AU | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 97 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AV | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 99 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AW | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 92 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1AX | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 89 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1A0 | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 94 | (80 - 120) | SW846 6020 | 06/01-06/03/09 LD4NE1A1 | |
| | | Dilution Factor: 0.5 | | Analysis Time..: 18:55 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9E300194

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| Zinc | 88 | (80 - 120) | SW846 6020 | 06/01-06/03/09 | LD4NE1A2 |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 100 | (80 - 120) | SW846 6020 | 06/01-06/03/09 | LD4NE1A3 |
| | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: C9F020000-013 Prep Batch #....: 9153013 | | | | | |
| Mercury | 96 | (80 - 120) | SW846 7471A | 06/02/09 | LD5N61AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 08:23 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E300194

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F010000-173 Prep Batch #....: 9152173 | | | | | | | |
| Arsenic | 2.00 | 1.82 | mg/kg | 91 | SW846 6020 | 06/01-06/03/09 | LD4NE1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.30 | mg/kg | 92 | SW846 6020 | 06/01-06/03/09 | LD4NE1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.30 | mg/kg | 92 | SW846 6020 | 06/01-06/03/09 | LD4NE1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 10.1 | mg/kg | 101 | SW846 6020 | 06/01-06/03/09 | LD4NE1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 12.5 | mg/kg | 100 | SW846 6020 | 06/01-06/03/09 | LD4NE1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 24.2 | mg/kg | 97 | SW846 6020 | 06/01-06/03/09 | LD4NE1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 0.987 | mg/kg | 99 | SW846 6020 | 06/01-06/03/09 | LD4NE1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.1 | mg/kg | 92 | SW846 6020 | 06/01-06/03/09 | LD4NE1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.443 | mg/kg | 89 | SW846 6020 | 06/01-06/03/09 | LD4NE1A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Thallium | 2.50 | 2.36 | mg/kg | 94 | SW846 6020 | 06/01-06/03/09 | LD4NE1A1 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|-----------------|--------------------|-------|---------------------------|-------------------------|-------------------------------|-----------------|
| Zinc | 25.0 | 22.0 | mg/kg | 88 | SW846 6020 | 06/01-06/03/09 | LD4NE1A2 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Silver | 2.50 | 2.50 | mg/kg | 100 | SW846 6020 | 06/01-06/03/09 | LD4NE1A3 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 18:55 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| LCS Lot-Sample#: C9F020000-013 Prep Batch #...: 9153013 | | | | | | | |
| Mercury | 0.208 | 0.200 | mg/kg | 96 | SW846 7471A | 06/02/09 | LD5N61AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 08:23 | Analyst ID.....: 031043 | |
| | | | | Instrument ID...: HGHYDRA | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9E300194-001 Prep Batch #...: 9152173 | | | | | | |
| | | | | | % Moisture.....: 14 | |
| Antimony | 58 N | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61CC |
| | 60 N | (75 - 125) | 4.3 (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CD |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Arsenic | 30 N | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61AV |
| | 54 N | (75 - 125) | 11 (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61AW |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Beryllium | 93 | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61AX |
| | 87 | (75 - 125) | 5.5 (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61A0 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Cadmium | 98 | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61A1 |
| | 73 N | (75 - 125) | 16 (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61A2 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Chromium | NC | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61A3 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61A4 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Copper | NC | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61A5 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61A6 |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/01-06/03/09 | LD3R61A9 |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CA |
| Dilution Factor: 2.5 | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9152108 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| | PERCENT | RECOVERY | | RPD | | PREPARATION- | WORK |
|-----------|----------|-------------------------|------|--------------------------|------------|-------------------------|----------|
| PARAMETER | RECOVERY | LIMITS | | LIMITS | METHOD | ANALYSIS DATE | ORDER # |
| Nickel | 30 N | (75 - 125) | | | SW846 6020 | 06/01-06/03/09 | LD3R61A7 |
| | 31 N | (75 - 125) | 0.67 | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61A8 |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9152108 | | | | | |
| Selenium | 106 | (75 - 125) | | | SW846 6020 | 06/01-06/03/09 | LD3R61CE |
| | 83 * | (75 - 125) | 25 | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CF |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9152108 | | | | | |
| Silver | 87 | (75 - 125) | | | SW846 6020 | 06/01-06/03/09 | LD3R61CL |
| | 85 | (75 - 125) | 2.4 | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CM |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9152108 | | | | | |
| Thallium | 90 | (75 - 125) | | | SW846 6020 | 06/01-06/03/09 | LD3R61CG |
| | 89 | (75 - 125) | 0.08 | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CH |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9152108 | | | | | |
| Zinc | NC | (75 - 125) | | | SW846 6020 | 06/01-06/03/09 | LD3R61CJ |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/01-06/03/09 | LD3R61CK |
| | | Dilution Factor: 2.5 | | | | | |
| | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | MS Run #.....: 9152108 | | | | | |

MS Lot-Sample #: C9E300194-001 Prep Batch #...: 9153013

% Moisture.....: 14

| | | | | | | | |
|---------|---------|------------|------------------------|--------|--------------------------|-------------------------|----------|
| Mercury | 85 | (75 - 125) | | | SW846 7471A | 06/02/09 | LD3R61CN |
| | 132 N,* | (75 - 125) | 25 | (0-20) | SW846 7471A | 06/02/09 | LD3R61CP |
| | | | Dilution Factor: 0.5 | | | | |
| | | | Analysis Time..: 08:33 | | Instrument ID..: HGHYDRA | Analyst ID.....: 031043 | |
| | | | MS Run #.....: 9153005 | | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9E300194-001 Prep Batch #...: 9152173

% Moisture.....: 14

Antimony

| | | | | | | | | | |
|--|------|--------|-------|----|-----|--|------------|----------------|----------|
| 1.9 | 29.0 | 18.6 N | mg/kg | 58 | | | SW846 6020 | 06/01-06/03/09 | LD3R61CC |
| 1.9 | 29.0 | 19.4 N | mg/kg | 60 | 4.3 | | SW846 6020 | 06/01-06/03/09 | LD3R61CD |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

Arsenic

| | | | | | | | | | |
|--|------|--------|-------|----|----|--|------------|----------------|----------|
| 4.0 | 2.32 | 4.65 N | mg/kg | 30 | | | SW846 6020 | 06/01-06/03/09 | LD3R61AV |
| 4.0 | 2.32 | 5.20 N | mg/kg | 54 | 11 | | SW846 6020 | 06/01-06/03/09 | LD3R61AW |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

Beryllium

| | | | | | | | | | |
|--|------|------|-------|----|-----|--|------------|----------------|----------|
| 0.58 | 2.90 | 3.28 | mg/kg | 93 | | | SW846 6020 | 06/01-06/03/09 | LD3R61AX |
| 0.58 | 2.90 | 3.10 | mg/kg | 87 | 5.5 | | SW846 6020 | 06/01-06/03/09 | LD3R61A0 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

Cadmium

| | | | | | | | | | |
|--|------|--------|-------|----|----|--|------------|----------------|----------|
| 2.1 | 2.90 | 4.91 | mg/kg | 98 | | | SW846 6020 | 06/01-06/03/09 | LD3R61A1 |
| 2.1 | 2.90 | 4.18 N | mg/kg | 73 | 16 | | SW846 6020 | 06/01-06/03/09 | LD3R61A2 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

Chromium

| | | | | | | | | | |
|--|------|---------|-------|--|--|--|------------|----------------|----------|
| 1420 | 11.6 | 1190 NC | mg/kg | | | | SW846 6020 | 06/01-06/03/09 | LD3R61A3 |
| 1420 | 11.6 | 1460 NC | mg/kg | | | | SW846 6020 | 06/01-06/03/09 | LD3R61A4 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

Copper

| | | | | | | | | | |
|--|------|---------|-------|--|--|--|------------|----------------|----------|
| 82.5 | 14.5 | 63.4 NC | mg/kg | | | | SW846 6020 | 06/01-06/03/09 | LD3R61A5 |
| 82.5 | 14.5 | 68.4 NC | mg/kg | | | | SW846 6020 | 06/01-06/03/09 | LD3R61A6 |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 19:23 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9152108 | | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9E300194

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------|---------------|-----------|-------------------------|-------|--------------------------|------|-------------------------|----------------------------|--------------|
| Lead | | | | | | | | | |
| | 219 | 1.16 | 182 NC | mg/kg | | | SW846 6020 | 06/01-06/03/09 | LD3R61A9 |
| | 219 | 1.16 | 173 NC | mg/kg | | | SW846 6020 | 06/01-06/03/09 | LD3R61CA |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |
| Nickel | | | | | | | | | |
| | 25.5 | 29.0 | 34.1 N | mg/kg | 30 | | SW846 6020 | 06/01-06/03/09 | LD3R61A7 |
| | 25.5 | 29.0 | 34.3 N | mg/kg | 31 | 0.67 | SW846 6020 | 06/01-06/03/09 | LD3R61A8 |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |
| Selenium | | | | | | | | | |
| | ND | 0.579 | 0.615 | mg/kg | 106 | | SW846 6020 | 06/01-06/03/09 | LD3R61CE |
| | ND | 0.579 | 0.480 * | mg/kg | 83 | 25 | SW846 6020 | 06/01-06/03/09 | LD3R61CF |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |
| Silver | | | | | | | | | |
| | 0.32 | 2.90 | 2.86 | mg/kg | 87 | | SW846 6020 | 06/01-06/03/09 | LD3R61CL |
| | 0.32 | 2.90 | 2.79 | mg/kg | 85 | 2.4 | SW846 6020 | 06/01-06/03/09 | LD3R61CM |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |
| Thallium | | | | | | | | | |
| | 0.15 | 2.90 | 2.74 | mg/kg | 90 | | SW846 6020 | 06/01-06/03/09 | LD3R61CG |
| | 0.15 | 2.90 | 2.74 | mg/kg | 89 | 0.08 | SW846 6020 | 06/01-06/03/09 | LD3R61CH |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |
| Zinc | | | | | | | | | |
| | 640 | 29.0 | 820 NC | mg/kg | | | SW846 6020 | 06/01-06/03/09 | LD3R61CJ |
| | 640 | 29.0 | 976 NC | mg/kg | | | SW846 6020 | 06/01-06/03/09 | LD3R61CK |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 19:23 | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | | |
| | | | MS Run #.....: 9152108 | | | | | | |

MS Lot-Sample #: C9E300194-001 Prep Batch #....: 9153013

% Moisture.....: 14

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9E300194

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 0.075 | 0.0966 | 0.157 | mg/kg | 85 | | SW846 7471A | 06/02/09 | LD3R61CN |
| | 0.075 | 0.0966 | 0.203 | mg/kg | 132 | 25 | SW846 7471A | 06/02/09 | LD3R61CP |

Qualifiers: N,*

Dilution Factor: 0.5

Analysis Time...: 08:33

Instrument ID...: HGHYDRA

Analyst ID.....: 031043

MS Run #.....: 9153005

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9E300194

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B03-10 | C9E300194 001 | LD3R61AT | 2.2 | mg/kg | 0.10 | 0.58 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |
| CT-SO-DUP1 | C9E300194 002 | LD3R81AT | 10.9 | mg/kg | 0.099 | 0.57 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |
| CT-SO-B03-20 | C9E300194 003 | LD3R91AT | 6.0 | mg/kg | 0.10 | 0.60 | 1 | 6/3/2009 - 6/3/2009 16:12 | 9154107 |
| CT-SO-B03-22 | C9E300194 004 | LD3TA1AT | 6.3 | mg/kg | 0.10 | 0.58 | 1 | 6/3/2009 - 6/3/2009 16:12 | 9154107 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SM20 2540G
 Lot Number: C9E300194

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B03-10 | C9E300194 001 | LD3R61AA | 86.3 | % | 0.0 | 1.0 | 1 | 6/2/2009 - 6/3/2009 06:32 | 9153097 |
| CT-SO-DUP1 | C9E300194 002 | LD3R81AA | 87.1 | % | 0.0 | 1.0 | 1 | 6/2/2009 - 6/3/2009 06:32 | 9153097 |
| CT-SO-B03-20 | C9E300194 003 | LD3R91AA | 83.8 | % | 0.0 | 1.0 | 1 | 6/2/2009 - 6/3/2009 06:32 | 9153097 |
| CT-SO-B03-22 | C9E300194 004 | LD3TA1AA | 85.5 | % | 0.0 | 1.0 | 1 | 6/2/2009 - 6/3/2009 06:32 | 9153097 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9E300194

Matrix: SOLID

Date/Time Received: 6/2/2009 9:30:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F030000107B | 107 MB | LD7LC1AA | ND | mg/kg | 0.50 | 6/3/2009 - 6/3/2009 15:27 | 9154107 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9E300194

Matrix: SOLID

Date/Time Received: 5/29/2009 9:45:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LD11E1A4 | 97.5 | % | 1.0 | 6/2/2009 - 6/3/2009 06:32 | 9153097 | 1.1 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F030000
 Date/Time Received: 6/2/2009 9:30:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|--------------|--------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LD7LC1AC | 97 | 38 - 162 | 6/3/2009 - 6/3/2009 15:27 | 9154107 | |
| LAB MS/MSD | MS | LDX8W1DH | 100 | 85 - 115 | 6/3/2009 - 6/3/2009 16:06 | 9154107 | 0.90 / 20 |
| LAB MS/MSD | MS | LD60E1CK | 87 | 85 - 115 | 6/3/2009 - 6/3/2009 16:12 | 9154107 | 5.6 / 20 |
| LAB MS/MSD | MSD | LDX8W1DJ | 101 | 85 - 115 | 6/3/2009 - 6/3/2009 16:06 | 9154107 | 0.90 / 20 |
| LAB MS/MSD | MSD | LD60E1CL | 92 | 85 - 115 | 6/3/2009 - 6/3/2009 16:12 | 9154107 | 5.6 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E300194

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B03-10 | C9E300194-001 | Soil |
| 2 | CT-SO-DUP1 | C9E300194-002 | Soil |
| 3 | CT-SO-B03-20 | C9E300194-003 | Soil |
| 4 | CT-SO-B03-22 | C9E300194-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values.

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate results are summarized below.

| Compound | CT-SO-B03-20 mg/kg | CT-SO-DUP1 mg/kg | RPD | Qualifier |
|----------|-----------------------|---------------------|-----|-----------|
| Cyanide | 6.0 | 10.9 | 58% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

Cyanide, Total

1-4

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9E300194

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B03-10 | C9E300194 001 | LD3R61AT | 2.2 | mg/kg | 0.10 | 0.58 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |
| CT-SO-DUP1 | C9E300194 002 | LD3R81AT | 10.9 | mg/kg | 0.099 | 0.57 | 1 | 6/3/2009 - 6/3/2009 16:06 | 9154107 |
| CT-SO-B03-20 | C9E300194 003 | LD3R91AT | 6.0 | mg/kg | 0.10 | 0.60 | 1 | 6/3/2009 - 6/3/2009 16:12 | 9154107 |
| CT-SO-B03-22 | C9E300194 004 | LD3TA1AT | 6.3 | mg/kg | 0.10 | 0.58 | 1 | 6/3/2009 - 6/3/2009 16:12 | 9154107 |

LMW 8/3/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E300194

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B03-10 | C9E300194-001 | Soil |
| 1MS | CT-SO-B03-10MS | C9E300194-001MS | Soil |
| 1MSD | CT-SO-B03-10MSD | C9E300194-001MSD | Soil |
| 2 | CT-SO-DUP1 | C9E300194-002 | Soil |
| 3 | CT-SO-B03-20 | C9E300194-003 | Soil |
| 4 | CT-SO-B03-22 | C9E300194-004 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 1 | Antimony | 58%/60%/Ok | None | See ICP SD |
| | Arsenic | 30%/54%/Ok | None | See ICP SD |
| | Cadmium | Ok/73%/Ok | L/UL | All samples |
| | Nickel | 30%/31%/Ok | None | See ICP SD |
| | Selenium | Ok/83%/Ok | L/UL | All samples |
| | Mercury | Ok/132%/25 | K | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following.

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 1 | Antimony | 12.6% | J | All samples |
| | Arsenic | 34.7% | J | All samples |
| | Copper | 13.6% | J | All samples |
| | Nickel | 11.7% | J | All samples |
| | Zinc | 17.5% | J | All samples |

Field Duplicates - Field duplicate results are summarized below.

| Compound | CT-SO-B03-20 mg/kg | CT-SO-DUP1 mg/kg | RPD | Qualifier |
|-----------|-----------------------|---------------------|-----|-----------|
| Silver | 0.23 | 0.086 | 91% | None |
| Arsenic | 5.5 | 3.2 | 53% | None |
| Beryllium | 0.50 | 0.50 | 0% | None |
| Cadmium | 5.2 | 5.1 | 2% | None |
| Chromium | 729 | 678 | 7% | None |
| Copper | 92.0 | 75.2 | 20% | None |
| Nickel | 44.6 | 36.5 | 20% | None |
| Lead | 384 | 244 | 45% | None |
| Antimony | 1.7 | 1.3 | 27% | None |
| Selenium | 0.76 | 0.38 | 67% | None |
| Thallium | 0.083 | 0.034 | 84% | None |
| Zinc | 2090 | 1190 | 55% | None |
| Mercury | 0.048 | 0.023 | 70% | None |

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

TOTAL Metals

Lot-Sample #....: C9E300194-001

Matrix.....: SOLID

Date Sampled....: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 14

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 9152173 | | | | | | |
| Silver | 0.32 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0070 | |
| Arsenic | 4.0 <i>JS</i> | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.048 | |
| Beryllium | 0.58 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 2.1 <i>L</i> | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.026 | |
| Chromium | 1420 <i>J</i> | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.023 | |
| Copper | 82.5 <i>JJS</i> | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.025 | |
| Nickel | 25.5 <i>J</i> | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 219 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0098 | |
| Antimony | 1.9 <i>J</i> | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0096 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

TOTAL Metals

Lot-Sample #...: C9E300194-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | ND <i>UL</i> | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.15 J <i>J</i> | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0058 | |
| Zinc | 640 J <i>J</i> | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R61AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 18:59 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |
| Prep Batch #... | 9153013 | | | | | |
| Mercury | 0.075 <i>K</i> | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3R61AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:31 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0063 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

mw
8/3/09

Maryland Environmental Service

2

Client Sample ID: CT-SO-DUP1

TOTAL Metals

Lot-Sample #....: C9E300194-002

Matrix.....: SOLID

Date Sampled....: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 13

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|---------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #....: 9152173 | | | | | | |
| Silver | 0.086 J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0069 |
| Arsenic | 3.2 J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.047 |
| Beryllium | 0.50 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.011 |
| Cadmium | 5.1 L | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.026 |
| Chromium | 678 J | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.023 |
| Copper | 75.2 J | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.024 |
| Nickel | 36.5 J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.020 |
| Lead | 244 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0098 |
| Antimony | 1.3 J | 0.57 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0095 |

(Continued on next page)

luw
8/3/09
55

Maryland Environmental Service

2

Client Sample ID: CT-SO-DUP1

TOTAL Metals

Lot-Sample #....: C9E300194-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.38 <i>L</i> | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.034 <i>J</i> | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0057 | |
| Zinc | 1190 <i>J</i> | 1.4 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R81AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:31 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |

Prep Batch #....: 9153013

| | | | | | | |
|---------|----------------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.023 <i>K</i> | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3R81AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:36 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0063 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

rw
8/3/09

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

TOTAL Metals

Lot-Sample #...: C9E300194-003

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9152173 | | | | | | |
| Silver | 0.23 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0072 | |
| Arsenic | 5.5 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.049 | |
| Beryllium | 0.50 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.011 | |
| Cadmium | 5.2 <i>L</i> | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.027 | |
| Chromium | 729 <i>J</i> | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.024 | |
| Copper | 92.0 <i>J J</i> | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.025 | |
| Nickel | 44.6 <i>J</i> | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.020 | |
| Lead | 384 | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.010 | |
| Antimony | 1.7 <i>J</i> | 0.60 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0098 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

TOTAL Metals

Lot-Sample #...: C9E300194-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.76 B L | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.083 B J | 0.30 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0060 | |
| Zinc | 2090 B J | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3R91AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:35 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.035 | |

Prep Batch #...: 9153013

| | | | | | | |
|---------|---------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.048 K | 0.020 | mg/kg | SW846 7471A | 06/02/09 | LD3R91AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:41 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0065 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

new
8/3/09

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

TOTAL Metals

Lot-Sample #...: C9E300194-004

Matrix.....: SOLID

Date Sampled...: 05/29/09

Date Received...: 05/30/09

% Moisture.....: 14

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|---------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9152173 | | | | | |
| Silver | 0.39 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0070 |
| Arsenic | 4.9 J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.048 |
| Beryllium | 0.49 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.011 |
| Cadmium | 11.5 L | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.027 |
| Chromium | 626 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.023 |
| Copper | 106 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.025 |
| Nickel | 50.6 J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.020 |
| Lead | 306 | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0099 |
| Antimony | 2.2 J | 0.58 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | | MDL.....: 0.0096 |

(Continued on next page)

llw
8/3/09
59

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

TOTAL Metals

4

Lot-Sample #....: C9E300194-004

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|-----------------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.56 PL J | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.12 | |
| Thallium | 0.027 PL J | 0.29 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.0058 | |
| Zinc | 2140 PL J | 1.5 | mg/kg | SW846 6020 | 06/01-06/03/09 | LD3TA1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 19:39 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9152108 | MDL.....: 0.034 | |
| Prep Batch #....: 9153013 | | | | | | |
| Mercury | 0.039 PL K | 0.019 | mg/kg | SW846 7471A | 06/02/09 | LD3TA1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:43 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9153005 | MDL.....: 0.0064 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

MP
8/31/09

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E300194

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B03-10 | C9E300194-001 | Soil |
| 2 | CT-SO-DUP1 | C9E300194-002 | Soil |
| 2MS | CT-SO-DUP1MS | C9E300194-002MS | Soil |
| 2MSD | CT-SO-DUP1MSD | C9E300194-002MSD | Soil |
| 2DL | CT-SO-DUP1DL | C9E300194-002DL | Soil |
| 3 | CT-SO-B03-20 | C9E300194-003 | Soil |
| 4 | CT-SO-B03-22 | C9E300194-004 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

| Compound | CT-SO-B03-20 ug/kg | CT-SO-DUP1 ug/kg | RPD | Qualifier |
|--------------------------|-----------------------|---------------------|------|-----------|
| 1-Methylnaphthalene | 8500 | 3300 | 88% | None |
| 2-Methylnaphthalene | 13000 | 8100 | 46% | None |
| Naphthalene | 81000 | 40000 | 68% | None |
| Acenaphthylene | 31000 | 6600 | 130% | J |
| Acenaphthene | 3700 | 700 | 136% | J |
| Fluorene | 32000 | 5000 | 146% | J |
| Phenanthrene | 120000 | 10000 | 169% | J |
| Anthracene | 30000 | 1600 | 180% | J |
| Fluoranthene | 84000 | 3000 | 186% | J |
| Pyrene | 44000 | 1700 | 185% | J |
| Benzo (a) anthracene | 24000 | 530 | 191% | J |
| Chrysene | 20000 | 580 | 189% | J |
| Benzo (b) fluoranthene | 25000 | 590 | 191% | J |
| Benzo (a) pyrene | 18000 | 420 | 191% | J |
| Indeno (1,2,3-cd) pyrene | 9500 | 220 | 191% | J |
| Dibenzo (a,h) anthracene | 3000 | 61 | 192% | J |
| Benzo (g,h,i) perylene | 9400 | 220 | 191% | J |

Compound Quantitation - EDS sample ID #s 2 and 3 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed these samples. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Semivolatiles

Lot-Sample #....: C9E300194-001 Work Order #....: LD3R61AC Matrix.....: SOLID
Date Sampled....: 05/29/09 13:00 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
Prep Batch #....: 9152011 Analysis Time...: 12:28
Dilution Factor: 0.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
% Moisture.....: 14 Analyst ID.....: 003200 Instrument ID...: 733
Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 9.7 | 3.9 | ug/kg | 0.58 |
| 2-Methylnaphthalene | 19 | 3.9 | ug/kg | 0.76 |
| Naphthalene | 160 | 3.9 | ug/kg | 0.56 |
| Acenaphthylene | 15 | 3.9 | ug/kg | 0.77 |
| Acenaphthene | 3.8 J | 3.9 | ug/kg | 0.62 |
| Fluorene | 8.2 | 3.9 | ug/kg | 0.58 |
| Phenanthrene | 160 | 3.9 | ug/kg | 0.46 |
| Anthracene | 26 | 19 | ug/kg | 0.68 |
| Fluoranthene | 320 | 3.9 | ug/kg | 0.33 |
| Pyrene | 200 | 3.9 | ug/kg | 1.0 |
| Benzo(a)anthracene | 140 | 3.9 | ug/kg | 0.62 |
| Chrysene | 170 | 3.9 | ug/kg | 0.68 |
| Benzo(b)fluoranthene | 220 | 3.9 | ug/kg | 0.78 |
| Benzo(k)fluoranthene | ND | 3.9 | ug/kg | 0.80 |
| Benzo(a)pyrene | 110 | 3.9 | ug/kg | 1.1 |
| Indeno(1,2,3-cd)pyrene | 83 | 3.9 | ug/kg | 0.21 |
| Dibenzo(a,h)anthracene | 28 | 3.9 | ug/kg | 0.85 |
| Benzo(ghi)perylene | 86 | 3.9 | ug/kg | 0.28 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 82 | (27 - 110) |
| Terphenyl-d14 | 83 | (21 - 130) |
| 2-Fluorobiphenyl | 78 | (28 - 108) |
| 2-Fluorophenol | 44 | (28 - 107) |
| Phenol-d5 | 73 | (30 - 112) |
| 2,4,6-Tribromophenol | 34 | (21 - 116) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

W
8/3/09

2

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Semivolatiles

Lot-Sample #....: C9E300194-002 Work Order #....: LD3R81AC Matrix.....: SOLID
 Date Sampled....: 05/29/09 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 10:08
 Dilution Factor: 25 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 13 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------------|--------------------|-------|--------|
| 1-Methylnaphthalene | 3300 | 190 | ug/kg | 29 |
| 2-Methylnaphthalene | 8100 | 190 | ug/kg | 38 |
| Naphthalene | 40000 39000 E 770 190 | 190 | ug/kg | 110 20 |
| Acenaphthylene | 6600 J | 190 | ug/kg | 38 |
| Acenaphthene | 700 | 190 | ug/kg | 31 |
| Fluorene | 5000 | 190 | ug/kg | 29 |
| Phenanthrene | 10000 | 190 | ug/kg | 23 |
| Anthracene | 1600 | 950 | ug/kg | 34 |
| Fluoranthene | 3000 | 190 | ug/kg | 16 |
| Pyrene | 1700 | 190 | ug/kg | 51 |
| Benzo (a) anthracene | 530 | 190 | ug/kg | 31 |
| Chrysene | 580 | 190 | ug/kg | 33 |
| Benzo (b) fluoranthene | 590 | 190 | ug/kg | 39 |
| Benzo (k) fluoranthene | ND | 190 | ug/kg | 40 |
| Benzo (a) pyrene | 420 J | 190 | ug/kg | 54 |
| Indeno (1,2,3-cd) pyrene | 220 | 190 | ug/kg | 11 |
| Dibenzo (a, h) anthracene | 61 J | 190 | ug/kg | 42 |
| Benzo (ghi) perylene | 220 | 190 | ug/kg | 14 |
| | | | | |
| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS | | |
| Nitrobenzene-d5 | NC, DIL | (27 - 110) | | |
| Terphenyl-d14 | NC, DIL | (21 - 130) | | |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) | | |
| 2-Fluorophenol | NC, DIL | (28 - 107) | | |
| Phenol-d5 | NC, DIL | (30 - 112) | | |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) | | |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

hw
8/31/09

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1 DL

GC/MS Semivolatiles

Use original

Lot-Sample #....: C9E300194-002 Work Order #....: LD3R82AC Matrix.....: SOLID
 Date Sampled....: 05/29/09 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 17:23
 Dilution Factor: 100 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 13 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3300 | 770 | ug/kg | 120 |
| 2-Methylnaphthalene | 8100 | 770 | ug/kg | 150 |
| Naphthalene | 40000 | 770 | ug/kg | 110 |
| Acenaphthylene | 7100 | 770 | ug/kg | 150 |
| Acenaphthene | 750 J | 770 | ug/kg | 120 |
| Fluorene | 5200 | 770 | ug/kg | 120 |
| Phenanthrene | 11000 | 770 | ug/kg | 91 |
| Anthracene | 1800 J | 3800 | ug/kg | 130 |
| Fluoranthene | 3200 | 770 | ug/kg | 65 |
| Pyrene | 1900 | 770 | ug/kg | 200 |
| Benzo(a)anthracene | 610 J | 770 | ug/kg | 120 |
| Chrysene | 650 J | 770 | ug/kg | 130 |
| Benzo(b)fluoranthene | 530 J | 770 | ug/kg | 160 |
| Benzo(k)fluoranthene | ND | 770 | ug/kg | 160 |
| Benzo(a)pyrene | 480 J | 770 | ug/kg | 210 |
| Indeno(1,2,3-cd)pyrene | 270 J | 770 | ug/kg | 42 |
| Dibenzo(a,h)anthracene | ND | 770 | ug/kg | 170 |
| Benzo(ghi)perylene | 310 J | 770 | ug/kg | 56 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Semivolatiles

Lot-Sample #....: C9E300194-003 Work Order #....: LD3R91AC Matrix.....: SOLID
 Date Sampled....: 05/29/09 14:30 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 10:28
 Dilution Factor: 74.5 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|-----------------------|-----------------|-------|--------|
| 1-Methylnaphthalene | 8500 | 600 | ug/kg | 90 |
| 2-Methylnaphthalene | 13000 | 600 | ug/kg | 120 |
| Naphthalene | 81000 | 600 | ug/kg | 86 |
| Acenaphthylene | 31000 J | 600 | ug/kg | 120 |
| Acenaphthene | 3700 JJ | 600 | ug/kg | 95 |
| Fluorene | 32000 J | 600 | ug/kg | 89 |
| Phenanthrene | 120000 120000 EJ 1600 | 600 | ug/kg | 190 71 |
| Anthracene | 30000 J | 2900 | ug/kg | 100 |
| Fluoranthene | 84000 | 600 | ug/kg | 50 |
| Pyrene | 44000 | 600 | ug/kg | 160 |
| Benzo (a) anthracene | 24000 | 600 | ug/kg | 95 |
| Chrysene | 20000 | 600 | ug/kg | 100 |
| Benzo (b) fluoranthene | 25000 ↓ | 600 | ug/kg | 120 |
| Benzo (k) fluoranthene | ND | 600 | ug/kg | 120 |
| Benzo (a) pyrene | 18000 J | 600 | ug/kg | 170 |
| Indeno (1,2,3-cd) pyrene | 9500 ↓ | 600 | ug/kg | 33 |
| Dibenzo (a,h) anthracene | 3000 | 600 | ug/kg | 130 |
| Benzo (ghi) perylene | 9400 ↓ | 600 | ug/kg | 44 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

- NC The recovery and/or RPD were not calculated.
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.
 E Estimated result. Result concentration exceeds the calibration range.

aw
8/3/09

300

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20 DL

GC/MS Semivolatiles

use original

Lot-Sample #....: C9E300194-003 Work Order #....: LD3R92AC Matrix.....: SOLID
Date Sampled....: 05/29/09 14:30 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
Prep Batch #....: 9152011 Analysis Time...: 17:42
Dilution Factor: 198.68 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
% Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 8800 | 1600 | ug/kg | 240 |
| 2-Methylnaphthalene | 13000 | 1600 | ug/kg | 310 |
| Naphthalene | 81000 | 1600 | ug/kg | 230 |
| Acenaphthylene | 33000 | 1600 | ug/kg | 310 |
| Acenaphthene | 4000 | 1600 | ug/kg | 250 |
| Fluorene | 32000 | 1600 | ug/kg | 240 |
| Phenanthrene | 120000 | 1600 | ug/kg | 190 |
| Anthracene | 30000 | 7800 | ug/kg | 280 |
| Fluoranthene | 79000 | 1600 | ug/kg | 130 |
| Pyrene | 44000 | 1600 | ug/kg | 420 |
| Benzo(a)anthracene | 24000 | 1600 | ug/kg | 250 |
| Chrysene | 21000 | 1600 | ug/kg | 280 |
| Benzo(b)fluoranthene | 25000 | 1600 | ug/kg | 320 |
| Benzo(k)fluoranthene | ND | 1600 | ug/kg | 330 |
| Benzo(a)pyrene | 18000 | 1600 | ug/kg | 440 |
| Indeno(1,2,3-cd)pyrene | 10000 | 1600 | ug/kg | 87 |
| Dibenzo(a,h)anthracene | 3000 | 1600 | ug/kg | 350 |
| Benzo(ghi)perylene | 10000 | 1600 | ug/kg | 120 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

HW
8/3/09

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Semivolatiles

Lot-Sample #....: C9E300194-004 Work Order #....: LD3TA1AC Matrix.....: SOLID
 Date Sampled....: 05/29/09 15:00 Date Received...: 05/30/09 10:05 MS Run #.....: 9152003
 Prep Date.....: 06/01/09 Analysis Date...: 06/01/09
 Prep Batch #....: 9152011 Analysis Time...: 10:48
 Dilution Factor: 35 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 14 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 3600 | 270 | ug/kg | 41 |
| 2-Methylnaphthalene | 8500 | 270 | ug/kg | 54 |
| Naphthalene | 43000 | 270 | ug/kg | 40 |
| Acenaphthylene | 7100 | 270 | ug/kg | 54 |
| Acenaphthene | 770 | 270 | ug/kg | 44 |
| Fluorene | 5300 | 270 | ug/kg | 41 |
| Phenanthrene | 11000 | 270 | ug/kg | 33 |
| Anthracene | 1700 | 1400 | ug/kg | 48 |
| Fluoranthene | 3200 | 270 | ug/kg | 23 |
| Pyrene | 1800 | 270 | ug/kg | 73 |
| Benzo (a) anthracene | 540 | 270 | ug/kg | 44 |
| Chrysene | 560 | 270 | ug/kg | 48 |
| Benzo (b) fluoranthene | 550 | 270 | ug/kg | 55 |
| Benzo (k) fluoranthene | ND | 270 | ug/kg | 57 |
| Benzo (a) pyrene | 380 | 270 | ug/kg | 76 |
| Indeno (1,2,3-cd) pyrene | 250 J | 270 | ug/kg | 15 |
| Dibenzo (a,h) anthracene | 68 J | 270 | ug/kg | 60 |
| Benzo (ghi) perylene | 250 J | 270 | ug/kg | 20 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

lw
8/3/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9E300194

Client: Maryland Environmental Service, Millersville, MD Date: August 3, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B03-10 | C9E300194-001 | Soil |
| 2 | CT-SO-DUP1 | C9E300194-002 | Soil |
| 3 | CT-SO-B03-20 | C9E300194-003 | Soil |
| 4 | CT-SO-B03-22 | C9E300194-004 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/14/09 | Acrolein | 0.033 RRF | L/R | 1 |
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 2-4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------|-----------|-------------------------------|
| 06/01/09 | Acrolein | 0.035 RRF | None | Already qualified due to ICAL |
| | 2-Butanone | 27.2% | None | All ND |
| | 1,1,2,2-Tetrachloroethane | 29.1% | None | All ND |
| 06/02/09 | Acrolein | 0.044 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|--------------------|----------------|-----------------------|-----------|------------------|
| MBLK | Methylene chloride | 2.0 | 20 | B | 1 |

Trip, Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate results are summarized below.

| Compound | CT-SO-B03-20 ug/kg | CT-SO-DUP1 ug/kg | RPD | Qualifier |
|--------------|-----------------------|---------------------|-----|-----------|
| Benzene | 680 | 400 | 52% | None |
| Ethylbenzene | 120 | 120 | 0% | None |
| Toluene | 740 | 560 | 28% | None |

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-001 | Work Order #....: LD3R61AU | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: 9152043 |
| Prep Date.....: 06/01/09 | Analysis Date...: 06/01/09 | |
| Prep Batch #....: 9152044 | Analysis Time...: 12:07 | |
| Dilution Factor: 0.99 | Initial Wgt/Vol: 5.03 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 14 | Analyst ID.....: 010099 | Instrument ID...: HP3 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|------|
| Acrolein | ND R | 110 | ug/kg | 8.1 |
| Acrylonitrile | ND | 110 | ug/kg | 12 |
| Benzene | ND | 5.7 | ug/kg | 0.77 |
| Bromodichloromethane | ND | 5.7 | ug/kg | 0.64 |
| Bromoform | ND | 5.7 | ug/kg | 0.51 |
| Bromomethane | ND | 5.7 | ug/kg | 0.85 |
| 2-Butanone (MEK) | ND | 5.7 | ug/kg | 1.0 |
| Carbon tetrachloride | ND | 5.7 | ug/kg | 0.51 |
| Chloroethane | ND | 5.7 | ug/kg | 1.8 |
| 2-Chloroethyl vinyl ether | ND | 11 | ug/kg | 0.89 |
| Chloroform | ND | 5.7 | ug/kg | 0.67 |
| Chloromethane | ND | 5.7 | ug/kg | 0.98 |
| Dibromochloromethane | ND | 5.7 | ug/kg | 0.81 |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/kg | 0.91 |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/kg | 0.75 |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/kg | 0.73 |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/kg | 0.68 |
| Dichlorodifluoromethane | ND | 5.7 | ug/kg | 0.76 |
| 1,1-Dichloroethane | ND | 5.7 | ug/kg | 0.66 |
| 1,2-Dichloroethane | ND | 5.7 | ug/kg | 0.70 |
| 1,1-Dichloroethene | ND | 5.7 | ug/kg | 0.97 |
| 1,2-Dichloropropane | ND | 5.7 | ug/kg | 0.62 |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/kg | 0.78 |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/kg | 0.69 |
| Ethylbenzene | ND | 5.7 | ug/kg | 0.74 |
| Methylene chloride | 2.0 J B B | 5.7 | ug/kg | 0.77 |
| 1,1,2,2-Tetrachloroethane | ND | 5.7 | ug/kg | 0.82 |
| Tetrachloroethene | ND | 5.7 | ug/kg | 0.78 |
| Toluene | ND | 5.7 | ug/kg | 0.84 |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/kg | 0.56 |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/kg | 0.95 |
| Trichloroethene | 2.6 J | 5.7 | ug/kg | 0.75 |
| Trichlorofluoromethane | ND | 5.7 | ug/kg | 1.1 |
| Vinyl chloride | ND | 5.7 | ug/kg | 0.54 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B03-10

GC/MS Volatiles

Lot-Sample #...: C9E300194-001 Work Order #...: LD3R61AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 100 | (52 - 124) |
| Toluene-d8 | 92 | (72 - 127) |
| 4-Bromofluorobenzene | 88 | (63 - 120) |
| Dibromofluoromethane | 102 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QW
8/3/09

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Volatiles

Lot-Sample #....: C9E300194-002 Work Order #....: LD3R81AU Matrix.....: SOLID
 Date Sampled....: 05/29/09 Date Received...: 05/30/09 MS Run #.....:
 Prep Date.....: 06/02/09 Analysis Date...: 06/02/09
 Prep Batch #....: 9154132 Analysis Time...: 18:20
 Dilution Factor: 0.99 Initial Wgt/Vol: 5.05 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 13 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 5700 | ug/kg | 900 |
| Acrylonitrile | ND | 5700 | ug/kg | 460 |
| Benzene | 400 | 280 | ug/kg | 56 |
| Bromodichloromethane | ND | 280 | ug/kg | 53 |
| Bromoform | ND | 280 | ug/kg | 61 |
| Bromomethane | ND | 280 | ug/kg | 90 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 62 |
| Carbon tetrachloride | ND | 280 | ug/kg | 62 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 570 | ug/kg | 63 |
| Chloroform | ND | 280 | ug/kg | 57 |
| Chloromethane | ND | 280 | ug/kg | 53 |
| Dibromochloromethane | ND | 280 | ug/kg | 37 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 39 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 30 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 43 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 36 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 58 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 55 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 61 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 72 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 41 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 33 |
| Ethylbenzene | 120 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 62 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 53 |
| Tetrachloroethene | ND | 280 | ug/kg | 47 |
| Toluene | 560 | 280 | ug/kg | 48 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 59 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 66 |
| Trichloroethene | ND | 280 | ug/kg | 46 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 64 |
| Vinyl chloride | ND | 280 | ug/kg | 73 |

(Continued on next page)

dw
 8/3/09

Maryland Environmental Service

Client Sample ID: CT-SO-DUP1

GC/MS Volatiles

Lot-Sample #....: C9E300194-002 Work Order #....: LD3R81AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 91 | (52 - 124) |
| Toluene-d8 | 105 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 99 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

aw
8/13/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-003 | Work Order #....: LD3R91AU | Matrix.....: SOLID |
| Date Sampled....: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: |
| Prep Date.....: 06/02/09 | Analysis Date...: 06/02/09 | |
| Prep Batch #....: 9154132 | Analysis Time...: 18:44 | |
| Dilution Factor: 0.98 | Initial Wgt/Vol.: 5.11 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|-----|
| Acrolein | ND R | 5800 | ug/kg | 930 |
| Acrylonitrile | ND | 5800 | ug/kg | 470 |
| Benzene | 680 | 290 | ug/kg | 58 |
| Bromodichloromethane | ND | 290 | ug/kg | 54 |
| Bromoform | ND | 290 | ug/kg | 62 |
| Bromomethane | ND | 290 | ug/kg | 92 |
| 2-Butanone (MEK) | ND | 290 | ug/kg | 63 |
| Carbon tetrachloride | ND | 290 | ug/kg | 63 |
| Chloroethane | ND | 290 | ug/kg | 44 |
| 2-Chloroethyl vinyl ether | ND | 580 | ug/kg | 65 |
| Chloroform | ND | 290 | ug/kg | 59 |
| Chloromethane | ND | 290 | ug/kg | 54 |
| Dibromochloromethane | ND | 290 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 290 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 290 | ug/kg | 30 |
| 1,4-Dichlorobenzene | ND | 290 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 290 | ug/kg | 44 |
| Dichlorodifluoromethane | ND | 290 | ug/kg | 37 |
| 1,1-Dichloroethane | ND | 290 | ug/kg | 59 |
| 1,2-Dichloroethane | ND | 290 | ug/kg | 56 |
| 1,1-Dichloroethene | ND | 290 | ug/kg | 62 |
| 1,2-Dichloropropane | ND | 290 | ug/kg | 75 |
| cis-1,3-Dichloropropene | ND | 290 | ug/kg | 42 |
| trans-1,3-Dichloropropene | ND | 290 | ug/kg | 34 |
| Ethylbenzene | 120 J | 290 | ug/kg | 36 |
| Methylene chloride | ND | 290 | ug/kg | 64 |
| 1,1,2,2-Tetrachloroethane | ND | 290 | ug/kg | 55 |
| Tetrachloroethene | ND | 290 | ug/kg | 48 |
| Toluene | 740 | 290 | ug/kg | 49 |
| 1,1,1-Trichloroethane | ND | 290 | ug/kg | 60 |
| 1,1,2-Trichloroethane | ND | 290 | ug/kg | 68 |
| Trichloroethene | ND | 290 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 290 | ug/kg | 65 |
| Vinyl chloride | ND | 290 | ug/kg | 75 |

(Continued on next page)

lu
8/3/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B03-20

GC/MS Volatiles

Lot-Sample #....: C9E300194-003 Work Order #....: LD3R91AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 91 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 101 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

JW
8/2/09

4

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9E300194-004 | Work Order #....: LD3TA1AU | Matrix.....: SOLID |
| Date Sampled...: 05/29/09 | Date Received...: 05/30/09 | MS Run #.....: |
| Prep Date.....: 06/02/09 | Analysis Date...: 06/02/09 | |
| Prep Batch #....: 9154132 | Analysis Time...: 19:08 | |
| Dilution Factor: 0.97 | Initial Wgt/Vol: 5.16 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 14 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 5700 | ug/kg | 900 |
| Acrylonitrile | ND | 5700 | ug/kg | 460 |
| Benzene | 320 | 280 | ug/kg | 56 |
| Bromodichloromethane | ND | 280 | ug/kg | 53 |
| Bromoform | ND | 280 | ug/kg | 61 |
| Bromomethane | ND | 280 | ug/kg | 89 |
| 2-Butanone (MEK) | ND | 280 | ug/kg | 61 |
| Carbon tetrachloride | ND | 280 | ug/kg | 61 |
| Chloroethane | ND | 280 | ug/kg | 42 |
| 2-Chloroethyl vinyl ether | ND | 570 | ug/kg | 63 |
| Chloroform | ND | 280 | ug/kg | 57 |
| Chloromethane | ND | 280 | ug/kg | 53 |
| Dibromochloromethane | ND | 280 | ug/kg | 37 |
| 1,2-Dichlorobenzene | ND | 280 | ug/kg | 39 |
| 1,3-Dichlorobenzene | ND | 280 | ug/kg | 29 |
| 1,4-Dichlorobenzene | ND | 280 | ug/kg | 30 |
| trans-1,2-Dichloroethene | ND | 280 | ug/kg | 43 |
| Dichlorodifluoromethane | ND | 280 | ug/kg | 36 |
| 1,1-Dichloroethane | ND | 280 | ug/kg | 57 |
| 1,2-Dichloroethane | ND | 280 | ug/kg | 54 |
| 1,1-Dichloroethene | ND | 280 | ug/kg | 60 |
| 1,2-Dichloropropane | ND | 280 | ug/kg | 72 |
| cis-1,3-Dichloropropene | ND | 280 | ug/kg | 41 |
| trans-1,3-Dichloropropene | ND | 280 | ug/kg | 33 |
| Ethylbenzene | 95 J | 280 | ug/kg | 35 |
| Methylene chloride | ND | 280 | ug/kg | 62 |
| 1,1,2,2-Tetrachloroethane | ND | 280 | ug/kg | 53 |
| Tetrachloroethene | ND | 280 | ug/kg | 47 |
| Toluene | 430 | 280 | ug/kg | 48 |
| 1,1,1-Trichloroethane | ND | 280 | ug/kg | 58 |
| 1,1,2-Trichloroethane | ND | 280 | ug/kg | 66 |
| Trichloroethene | ND | 280 | ug/kg | 45 |
| Trichlorofluoromethane | ND | 280 | ug/kg | 63 |
| Vinyl chloride | ND | 280 | ug/kg | 73 |

(Continued on next page)

lw
8/3/09

4

Maryland Environmental Service

Client Sample ID: CT-SO-B03-22

GC/MS Volatiles

Lot-Sample #....: C9E300194-004 Work Order #....: LD3TA1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 87 | (52 - 124) |
| Toluene-d8 | 106 | (72 - 127) |
| 4-Bromofluorobenzene | 104 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

mw
208/3/09

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

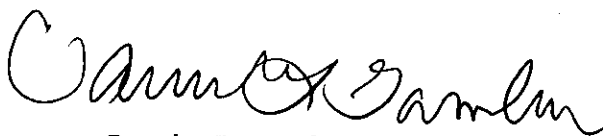
MES Sparrows Point 18001868

Lot #: C9F050380

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

June 15, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | -- | -- |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F050380

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 5, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, the sediment samples were analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. The samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Metals:

The serial dilution percent difference for CT-SO-B04-18 was outside the control limit for thallium.

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F050380

Metals cont.:

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spike and matrix spike duplicate recovered outside the control limits for antimony. The matrix spike duplicate recovered outside the control limit for zinc. The matrix spike recovered outside the control limit for chromium and copper.

The RPD was outside the control limit for copper, nickel and zinc.

For the matrix spike and matrix spike duplicate, lead recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C9F050380

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F050380

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LEFWN | 001 | CT-SO-B04-10 | 06/04/09 | 11:10 |
| LEFWQ | 002 | CT-SO-B04-18 | 06/04/09 | 12:10 |
| LEFWR | 003 | CT-SO-B04-14 | 06/04/09 | 12:30 |
| LEFWV | 004 | TRIP BLANK | 06/04/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

[illegible]

TestAmerica Pittsburgh

UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

**Please use an asterisk if bottle lot number was covered by the label

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____
Sulfuric Acid _____

Hydrochloric Acid _____
Sodium Hydroxide _____

FedEx US Airbill
Express

8694 4003 0539

0200

Form
10 No.

FedEx Retrieval Copy

1 From
Date 6/4/09 Sender's FedEx Account Number 0212-0722-5
Sender's Name Steve Xankay Phone 717 487-6632
Company EA Engineering
Address 15 Loveton Circle
City Sparks State MD ZIP 21152 Dept./Floor/Suite/Room

2 Your Internal Billing Reference 1453406.0001.000413

3 To
Recipient's Name Sample Receiving Phone 412 963-2428
Company Test America
Recipient's Address 301 Alpha Drive
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address RIDC Park
To request a package be held at a specific FedEx location, print FedEx address here.
City Pittsburgh State PA ZIP 15238



8694 4003 0539

4a Express Package Service *Packages up to 150 lbs.*
1 ☐ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☒ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
3 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.
* To meet locations. FedEx Envelope rate not available. Minimum charge: One-pound rate.

4b Express Freight Service *Packages over 150 lbs.*
7 ☐ FedEx 1Day Freight* Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ FedEx 2Day Freight Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight Third business day.* Saturday Delivery NOT available.
** To meet locations.

5 Packaging
6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other
* Declared value limit \$500.

6 Special Handling *Include FedEx address in Section 3.*
3 ☐ SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
1 ☐ HOLD Weekday at FedEx Location Not available for FedEx First Overnight.
31 ☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods? One box must be checked.
☒ No 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required.
6 ☐ Dry Ice Dry ice, 9, UN1845 x ☐ Cargo Aircraft Only
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 37

8 Residential Delivery Signature Options *If you require a signature, check Direct or Indirect.*
No Signature Required Package may be left without obtaining a signature for delivery. 10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies. 34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
520

Rev. Date 10/09-Part #15623-01/09-2009 FedEx-PRINTED IN U.S.A. 31Y

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F050380-001 | Work Order #....: LEFWN1AV | Matrix.....: SOLID |
| Date Sampled....: 06/04/09 | Date Received...: 06/05/09 | MS Run #.....: |
| Prep Date.....: 06/08/09 | Analysis Date...: 06/08/09 | |
| Prep Batch #....: 9159373 | Analysis Time...: 13:28 | |
| Dilution Factor: 0.94 | Initial Wgt/Vol: 5.33 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 24 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 6200 | ug/kg | 980 |
| Acrylonitrile | ND | 6200 | ug/kg | 500 |
| Benzene | 510 | 310 | ug/kg | 61 |
| Bromodichloromethane | ND | 310 | ug/kg | 58 |
| Bromoform | ND | 310 | ug/kg | 66 |
| Bromomethane | ND | 310 | ug/kg | 98 |
| 2-Butanone (MEK) | ND | 310 | ug/kg | 67 |
| Carbon tetrachloride | ND | 310 | ug/kg | 67 |
| Chloroethane | ND | 310 | ug/kg | 46 |
| 2-Chloroethyl vinyl ether | ND | 620 | ug/kg | 69 |
| Chloroform | ND | 310 | ug/kg | 63 |
| Chloromethane | ND | 310 | ug/kg | 58 |
| Dibromochloromethane | ND | 310 | ug/kg | 40 |
| 1,2-Dichlorobenzene | ND | 310 | ug/kg | 42 |
| 1,3-Dichlorobenzene | ND | 310 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 310 | ug/kg | 33 |
| trans-1,2-Dichloroethene | ND | 310 | ug/kg | 47 |
| Dichlorodifluoromethane | ND | 310 | ug/kg | 39 |
| 1,1-Dichloroethane | ND | 310 | ug/kg | 63 |
| 1,2-Dichloroethane | ND | 310 | ug/kg | 60 |
| 1,1-Dichloroethene | ND | 310 | ug/kg | 66 |
| 1,2-Dichloropropane | ND | 310 | ug/kg | 79 |
| cis-1,3-Dichloropropene | ND | 310 | ug/kg | 45 |
| trans-1,3-Dichloropropene | ND | 310 | ug/kg | 36 |
| Ethylbenzene | ND | 310 | ug/kg | 39 |
| Methylene chloride | ND | 310 | ug/kg | 68 |
| 1,1,2,2-Tetrachloroethane | ND | 310 | ug/kg | 58 |
| Tetrachloroethene | ND | 310 | ug/kg | 51 |
| Toluene | 280 J | 310 | ug/kg | 53 |
| 1,1,1-Trichloroethane | ND | 310 | ug/kg | 64 |
| 1,1,2-Trichloroethane | ND | 310 | ug/kg | 72 |
| Trichloroethene | ND | 310 | ug/kg | 50 |
| Trichlorofluoromethane | ND | 310 | ug/kg | 70 |
| Vinyl chloride | ND | 310 | ug/kg | 80 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Volatiles

Lot-Sample #...: C9F050380-001 Work Order #...: LEFWN1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 80 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 103 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F050380-002 | Work Order #...: LEFWQ1AV | Matrix.....: SOLID |
| Date Sampled...: 06/04/09 | Date Received...: 06/05/09 | MS Run #.....: |
| Prep Date.....: 06/08/09 | Analysis Date...: 06/08/09 | |
| Prep Batch #...: 9159373 | Analysis Time...: 12:41 | |
| Dilution Factor: 0.92 | Initial Wgt/Vol: 5.42 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 24 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|-------------|------------|--------------|-----------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 6000 | ug/kg | 960 |
| Acrylonitrile | ND | 6000 | ug/kg | 490 |
| Benzene | 4700 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 56 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 95 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 66 |
| Carbon tetrachloride | ND | 300 | ug/kg | 65 |
| Chloroethane | ND | 300 | ug/kg | 45 |
| 2-Chloroethyl vinyl ether | ND | 600 | ug/kg | 67 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 56 |
| Dibromochloromethane | ND | 300 | ug/kg | 39 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 41 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 61 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 64 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 77 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 320 | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 56 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 4500 | 300 | ug/kg | 51 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 62 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 70 |
| Trichloroethene | ND | 300 | ug/kg | 48 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 78 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Volatiles

Lot-Sample #...: C9F050380-002 Work Order #...: LEFWQ1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 79 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F050380-003 | Work Order #...: LEFWR1AV | Matrix.....: SOLID |
| Date Sampled...: 06/04/09 | Date Received...: 06/05/09 | MS Run #.....: |
| Prep Date.....: 06/08/09 | Analysis Date...: 06/08/09 | |
| Prep Batch #...: 9159373 | Analysis Time...: 13:04 | |
| Dilution Factor: 0.97 | Initial Wgt/Vol: 5.13 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 18 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | LIMIT | UNITS | MDL |
|---------------------------|-------------|------------|--------------|-----------|
| Acrolein | ND | 5900 | ug/kg | 940 |
| Acrylonitrile | ND | 5900 | ug/kg | 480 |
| Benzene | 750 | 300 | ug/kg | 59 |
| Bromodichloromethane | ND | 300 | ug/kg | 55 |
| Bromoform | ND | 300 | ug/kg | 63 |
| Bromomethane | ND | 300 | ug/kg | 93 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 64 |
| Carbon tetrachloride | ND | 300 | ug/kg | 64 |
| Chloroethane | ND | 300 | ug/kg | 44 |
| 2-Chloroethyl vinyl ether | ND | 590 | ug/kg | 66 |
| Chloroform | ND | 300 | ug/kg | 60 |
| Chloromethane | ND | 300 | ug/kg | 55 |
| Dibromochloromethane | ND | 300 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 30 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 60 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 57 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 63 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 76 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 43 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 40 J | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 65 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 55 |
| Tetrachloroethene | ND | 300 | ug/kg | 49 |
| Toluene | ND | 300 | ug/kg | 50 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 61 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 69 |
| Trichloroethene | ND | 300 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 66 |
| Vinyl chloride | ND | 300 | ug/kg | 76 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Volatiles

Lot-Sample #...: C9F050380-003 Work Order #...: LEFWR1AV Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 82 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F050380-004 | Work Order #....: LEFWV1AA | Matrix.....: WATER |
| Date Sampled....: 06/04/09 | Date Received...: 06/05/09 | MS Run #.....: 9160269 |
| Prep Date.....: 06/09/09 | Analysis Date...: 06/09/09 | |
| Prep Batch #....: 9160429 | Analysis Time...: 16:51 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP4 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F050380-004 Work Order #...: LEFWV1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 82 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 100 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F050380

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B04-10 | 80 | 104 | 103 | 97 | 00 |
| 02 | CT-SO-B04-18 | 79 | 103 | 102 | 98 | 00 |
| 03 | CT-SO-B04-14 | 82 | 103 | 102 | 98 | 00 |
| 04 | METHOD BLK. LEH371AA | 78 | 106 | 97 | 91 | 00 |
| 05 | LCS LEH371AC | 74 | 106 | 98 | 91 | 00 |
| 06 | LCSD LEH371AD | 77 | 106 | 96 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F050380

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 83 | 101 | 100 | 100 | 00 |
| 02 | TRIP BLANK | 82 | 100 | 100 | 101 | 00 |
| 03 | METHOD BLK. LEKP41AA | 77 | 105 | 96 | 90 | 00 |
| 04 | LCS LEKP41AC | 80 | 108 | 99 | 95 | 00 |
| 05 | LAB MS/MSD D | 76 | 108 | 98 | 97 | 00 |
| 06 | LAB MS/MSD S | 76 | 106 | 97 | 95 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F080000

WO #: LEH371AC

BATCH: 9159373

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 1,1-Dichloroethene | 2000 | 1880 | 94 | 59 - 129 | |
| Trichloroethene | 2000 | 1970 | 98 | 76 - 119 | |
| Benzene | 2000 | 1910 | 96 | 77 - 120 | |
| Toluene | 2000 | 2190 | 109 | 78 - 124 | |
| Chlorobenzene | 2000 | 2180 | 109 | 79 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F080000

WO #: LEH371AD

BATCH: 9159373

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 1940 | 97 | 59 - 129 | |
| Trichloroethene | 2000 | 1970 | 99 | 76 - 119 | |
| Benzene | 2000 | 1920 | 96 | 77 - 120 | |
| Toluene | 2000 | 2210 | 110 | 78 - 124 | |
| Chlorobenzene | 2000 | 2120 | 106 | 79 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F090000

WO #: LEKP41AC

BATCH: 9160429

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 40.8 | 102 | 69 - 127 | |
| Trichloroethene | 40.0 | 41.3 | 103 | 80 - 120 | |
| Benzene | 40.0 | 39.2 | 98 | 80 - 120 | |
| Toluene | 40.0 | 46.0 | 115 | 80 - 124 | |
| Chlorobenzene | 40.0 | 44.3 | 111 | 83 - 120 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F050258

WO #: LEEW61AC

BATCH: 9160429

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | ND | 1950 | 98 | 69 - 127 | |
| Trichloroethene | 2000 | ND | 2030 | 101 | 80 - 120 | |
| Benzene | 2000 | ND | 1950 | 97 | 80 - 120 | |
| Toluene | 2000 | 3300 | 6180 | 145* | 80 - 124 | a |
| Chlorobenzene | 2000 | ND | 2190 | 109 | 83 - 120 | |

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 1 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F050258

WO #: LEEW61AD

BATCH: 9160429

| COMPOUND | SPIKE | MSD | MSD | QC LIMITS | | | | QUAL |
|--------------------|------------------|---------------------|----------|-----------|-----|----------|--|------|
| | ADDED (ug/L) | CONCENT. (ug/L) | % REC | % RPD | RPD | REC | | |
| 1,1-Dichloroethene | 2000 | 1930 | 97 | 1.0 | 20 | 69 - 127 | | |
| Trichloroethene | 2000 | 1990 | 99 | 1.8 | 20 | 80 - 120 | | |
| Benzene | 2000 | 1930 | 96 | 1.0 | 20 | 80 - 120 | | |
| Toluene | 2000 | 5960 | 134* | 3.6 | 20 | 80 - 124 | | a |
| Chlorobenzene | 2000 | 2190 | 110 | 0.18 | 20 | 83 - 120 | | |

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ___0___ out of ___5___ outside limits

Spike Recovery: ___1___ out of ___5___ outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

LEH371AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4060801.D

Lot Number: C9F050380

Date Analyzed: 06/08/09

Time Analyzed: 09:52

Matrix: SOLID

Date Extracted: 06/08/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level: (low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B04-10 | LEFWN1AV | 4060809.D | 06/08/09 | 13:28 |
| 02 | CT-SO-B04-18 | LEFWQ1AV | 4060807.D | 06/08/09 | 12:41 |
| 03 | CT-SO-B04-14 | LEFWR1AV | 4060808.D | 06/08/09 | 13:04 |
| 04 | CHECK SAMPLE | LEH371AC C | 4060804.D | 06/08/09 | 11:03 |
| 05 | DUPLICATE CHECK | LEH371AD L | 4060805.D | 06/08/09 | 11:50 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F050380
MB Lot-Sample #: C9F080000-373

Work Order #...: LEH371AA

Matrix.....: SOLID

Analysis Date...: 06/08/09
Dilution Factor: 1

Prep Date.....: 06/08/09
Prep Batch #...: 9159373
Initial Wgt/Vol: 5 g
Analyst ID.....: 034635

Analysis Time...: 09:52
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---------------------------|--------|--------------------|-------|-------------|
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|-----------------------|---------------------|--------------------|
| 1,2-Dichloroethane-d4 | 78 | (52 - 124) |
| Toluene-d8 | 106 | (72 - 127) |
| 4-Bromofluorobenzene | 97 | (63 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F050380

Work Order #...: LEH371AA

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|----------------------|--------|--------------------|-------|--------|
| Dibromofluoromethane | 91 | (68 - 121) | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

LEKP41AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4060901.D

Lot Number: C9F050380

Date Analyzed: 06/09/09

Time Analyzed: 09:30

Matrix: WATER

Date Extracted:06/09/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP4

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LEEW61AA | 4060904.D | 06/09/09 | 10:42 |
| 02 | LAB MS/MSD | LEEW61AC S | 4060906.D | 06/09/09 | 11:30 |
| 03 | LAB MS/MSD | LEEW61AD D | 4060907.D | 06/09/09 | 11:53 |
| 04 | TRIP BLANK | LEFWV1AA | 4060919.D | 06/09/09 | 16:51 |
| 05 | CHECK SAMPLE | LEKP41AC C | 4060908.D | 06/09/09 | 12:20 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F050380
MB Lot-Sample #: C9F090000-429

Work Order #...: LEKP41AA

Matrix.....: WATER

Analysis Date...: 06/09/09
Dilution Factor: 1

Prep Date.....: 06/09/09

Prep Batch #...: 9160429

Analysis Time...: 09:30

Initial Wgt/Vol: 5 mL

Final Wgt/Vol...: 5 mL

Analyst ID.....: 034635

Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|-------------|
| | | LIMIT | UNITS | METHOD |
| Acrolein | ND | 100 | ug/L | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 77 | (62 - 123) |
| Toluene-d8 | 105 | (80 - 120) |
| 4-Bromofluorobenzene | 96 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F050380

Work Order #...: LEKP41AA

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|----------------------|--------|--------------------|-------|--------|
| Dibromofluoromethane | 90 | (80 - 120) | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F050380
 Lab File ID (Standard): 1C40608 Date Analyzed: 06/08/09
 Instrument ID: HP4 Time Analyzed: 0819
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 235143 | 10.76 | 420910 | 13.09 | 1129795 | 7.68 |
| UPPER LIMIT | 470286 | 10.96 | 841820 | 13.29 | 2259590 | 7.88 |
| LOWER LIMIT | 117572 | 10.56 | 210455 | 12.89 | 564898 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 278998 | 10.76 | 501289 | 13.09 | 1388140 | 7.68 |
| 02 INTRA-LAB CH | 259528 | 10.76 | 455311 | 13.09 | 1204125 | 7.68 |
| 03 INTRA-LAB CH | 229039 | 10.76 | 409154 | 13.09 | 1079163 | 7.68 |
| 04 CT-SO-B04-18 | 230007 | 10.76 | 420841 | 13.09 | 998337 | 7.68 |
| 05 CT-SO-B04-14 | 223959 | 10.76 | 422219 | 13.09 | 976692 | 7.68 |
| 06 CT-SO-B04-10 | 218512 | 10.76 | 407324 | 13.09 | 977447 | 7.68 |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F050380
 Lab File ID (Standard): 1C40609 Date Analyzed: 06/09/09
 Instrument ID: HP4 Time Analyzed: 0743
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) | | IS2 (DCB) | | IS3 | |
|-------------------|-----------|-------|-----------|-------|---------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 199795 | 10.76 | 372005 | 13.09 | 954886 | 7.68 |
| UPPER LIMIT | 399590 | 10.96 | 744010 | 13.29 | 1909772 | 7.88 |
| LOWER LIMIT | 99898 | 10.56 | 186003 | 12.89 | 477443 | 7.48 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 301441 | 10.76 | 547354 | 13.09 | 1467304 | 7.68 |
| 02 INTRA-LAB CH | 203584 | 10.76 | 361377 | 13.09 | 973506 | 7.67 |
| 03 TRIP BLANK | 221545 | 10.76 | 383179 | 13.09 | 933572 | 7.69 |
| 04 | | | | | | |
| 05 | | | | | | |
| 06 | | | | | | |
| 07 | | | | | | |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F050380-001 | Work Order #....: LEFWN1AC | Matrix.....: SOLID |
| Date Sampled....: 06/04/09 11:10 | Date Received...: 06/05/09 09:50 | MS Run #.....: 9160023 |
| Prep Date.....: 06/09/09 | Analysis Date...: 06/09/09 | |
| Prep Batch #....: 9160050 | Analysis Time...: 11:39 | |
| Dilution Factor: 39.74 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 24 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 970 | 350 | ug/kg | 53 |
| 2-Methylnaphthalene | 1900 | 350 | ug/kg | 69 |
| Naphthalene | 9600 | 350 | ug/kg | 51 |
| Acenaphthylene | 770 | 350 | ug/kg | 70 |
| Acenaphthene | 160 J | 350 | ug/kg | 56 |
| Fluorene | 630 | 350 | ug/kg | 53 |
| Phenanthrene | 3500 | 350 | ug/kg | 42 |
| Anthracene | 700 J | 1700 | ug/kg | 61 |
| Fluoranthene | 3100 | 350 | ug/kg | 30 |
| Pyrene | 2200 | 350 | ug/kg | 93 |
| Benzo (a) anthracene | 1500 | 350 | ug/kg | 56 |
| Chrysene | 1800 | 350 | ug/kg | 61 |
| Benzo (b) fluoranthene | 2200 | 350 | ug/kg | 71 |
| Benzo (k) fluoranthene | ND | 350 | ug/kg | 73 |
| Benzo (a) pyrene | 1200 | 350 | ug/kg | 98 |
| Indeno (1,2,3-cd) pyrene | 730 | 350 | ug/kg | 19 |
| Dibenzo (a,h) anthracene | 290 J | 350 | ug/kg | 77 |
| Benzo (ghi) perylene | 780 | 350 | ug/kg | 26 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.
J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-002 Work Order #....: LEFWQ1AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 12:10 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 11:59
 Dilution Factor: 200 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|----------|--------------------|-------|-----|
| 1-Methylnaphthalene | 34000 | 1800 | ug/kg | 270 |
| 2-Methylnaphthalene | 83000 | 1800 | ug/kg | 340 |
| Naphthalene | 410000 E | 1800 | ug/kg | 250 |
| Acenaphthylene | 56000 | 1800 | ug/kg | 350 |
| Acenaphthene | 4900 | 1800 | ug/kg | 280 |
| Fluorene | 47000 | 1800 | ug/kg | 260 |
| Phenanthrene | 130000 | 1800 | ug/kg | 210 |
| Anthracene | 33000 | 8700 | ug/kg | 310 |
| Fluoranthene | 86000 | 1800 | ug/kg | 150 |
| Pyrene | 56000 | 1800 | ug/kg | 470 |
| Benzo (a) anthracene | 34000 | 1800 | ug/kg | 280 |
| Chrysene | 32000 | 1800 | ug/kg | 310 |
| Benzo (b) fluoranthene | 36000 | 1800 | ug/kg | 350 |
| Benzo (k) fluoranthene | ND | 1800 | ug/kg | 370 |
| Benzo (a) pyrene | 28000 | 1800 | ug/kg | 490 |
| Indeno (1,2,3-cd) pyrene | 13000 | 1800 | ug/kg | 96 |
| Dibenzo (a,h) anthracene | 4000 | 1800 | ug/kg | 390 |
| Benzo (ghi) perylene | 13000 | 1800 | ug/kg | 130 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18 DL

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-002 Work Order #....: LEFWQ2AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 12:10 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 13:17
 Dilution Factor: 500 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 30000 | 4400 | ug/kg | 660 |
| 2-Methylnaphthalene | 74000 | 4400 | ug/kg | 860 |
| Naphthalene | 470000 | 4400 | ug/kg | 640 |
| Acenaphthylene | 49000 | 4400 | ug/kg | 870 |
| Acenaphthene | 4300 J | 4400 | ug/kg | 700 |
| Fluorene | 40000 | 4400 | ug/kg | 660 |
| Phenanthrene | 110000 | 4400 | ug/kg | 520 |
| Anthracene | 28000 | 22000 | ug/kg | 770 |
| Fluoranthene | 73000 | 4400 | ug/kg | 370 |
| Pyrene | 49000 | 4400 | ug/kg | 1200 |
| Benzo (a) anthracene | 31000 | 4400 | ug/kg | 700 |
| Chrysene | 27000 | 4400 | ug/kg | 770 |
| Benzo (b) fluoranthene | 33000 | 4400 | ug/kg | 890 |
| Benzo (k) fluoranthene | ND | 4400 | ug/kg | 910 |
| Benzo (a) pyrene | 24000 | 4400 | ug/kg | 1200 |
| Indeno (1,2,3-cd) pyrene | 12000 | 4400 | ug/kg | 240 |
| Dibenzo (a,h) anthracene | 2400 J | 4400 | ug/kg | 960 |
| Benzo (ghi) perylene | 12000 | 4400 | ug/kg | 320 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 Results and reporting limits have been adjusted for dry weight.
 J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Semivolatiles

| | | |
|---|---|---------------------------------|
| Lot-Sample #....: C9F050380-003 | Work Order #....: LEFWRIAC | Matrix.....: SOLID |
| Date Sampled....: 06/04/09 12:30 | Date Received...: 06/05/09 09:50 | MS Run #.....: 9160023 |
| Prep Date.....: 06/09/09 | Analysis Date...: 06/09/09 | |
| Prep Batch #....: 9160050 | Analysis Time...: 13:37 | |
| Dilution Factor: 12.5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol...: 0.5 mL |
| % Moisture.....: 18 | Analyst ID.....: 003200 | Instrument ID...: 733 |
| | Method.....: SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 480 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 1200 | 100 | ug/kg | 20 |
| Naphthalene | 7100 | 100 | ug/kg | 15 |
| Acenaphthylene | 670 | 100 | ug/kg | 20 |
| Acenaphthene | 120 | 100 | ug/kg | 16 |
| Fluorene | 600 | 100 | ug/kg | 15 |
| Phenanthrene | 2600 | 100 | ug/kg | 12 |
| Anthracene | 860 | 500 | ug/kg | 18 |
| Fluoranthene | 2800 | 100 | ug/kg | 8.6 |
| Pyrene | 2000 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 1400 | 100 | ug/kg | 16 |
| Chrysene | 1300 | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 1600 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | ND | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 1200 | 100 | ug/kg | 29 |
| Indeno (1,2,3-cd) pyrene | 620 | 100 | ug/kg | 5.6 |
| Dibenzo (a,h) anthracene | 170 | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | 610 | 100 | ug/kg | 7.5 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.
DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F050380

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|-----------------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B04-10 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | CT-SO-B04-18 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 03 | CT-SO-B04-18 RE-1 <i>DL</i> | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | CT-SO-B04-14 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | METHOD BLK. LEJMS1AA | 59 | 67 | 55 | 60 | 63 | 46 | 00 |
| 06 | LCS LEJMS1AC | 64 | 61 | 62 | 65 | 62 | 59 | 00 |
| 07 | CT-SO-B04-18 D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | CT-SO-B04-18 S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = Terphenyl-d14
 SRG03 = 2-Fluorobiphenyl
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(27-110)
 (21-130)
 (28-108)
 (28-107)
 (30-112)
 (21-116)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F090000

WO #: LEJM51AC

BATCH: 9160050

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| 4-Bromophenyl phenyl ethe | 333 | 195 | 58 | 43 - 111 | |
| Butyl benzyl phthalate | 333 | 197 | 59 | 40 - 117 | |
| Phenol | 333 | 200 | 60 | 39 - 105 | |
| 2-Chlorophenol | 333 | 192 | 57 | 40 - 105 | |
| 1,4-Dichlorobenzene | 333 | 196 | 59 | 41 - 101 | |
| N-Nitrosodi-n-propylamine | 333 | 202 | 61 | 42 - 108 | |
| 1,2,4-Trichlorobenzene | 333 | 195 | 59 | 41 - 105 | |
| 4-Chloro-3-methylphenol | 333 | 172 | 52 | 43 - 110 | |
| Acenaphthene | 333 | 199 | 60 | 42 - 104 | |
| 4-Nitrophenol | 333 | 201 | 60 | 27 - 131 | |
| 2,4-Dinitrotoluene | 333 | 217 | 65 | 48 - 118 | |
| Pentachlorophenol | 333 | 152 | 46 | 18 - 125 | |
| Pyrene | 333 | 195 | 59 | 39 - 113 | |
| 4-Methylphenol | 667 | 378 | 57 | 43 - 107 | |
| Hexachloroethane | 333 | 195 | 59 | 40 - 102 | |
| Naphthalene | 333 | 195 | 58 | 42 - 104 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B04-18

Level: (low/med) LOW

Lot #: C9F050380

WO #: LEFWQ1CR

BATCH: 9160050

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 438 | 3000 | | 0* | 39 - 105 | NC DIL |
| 2-Chlorophenol | 438 | ND | | 0* | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 438 | ND | | 0* | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 438 | ND | | 0* | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 438 | ND | | 0* | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 438 | ND | | 0* | 43 - 110 | NC DIL |
| Acenaphthene | 438 | 4900 | | 0* | 42 - 104 | NC DIL |
| 4-Nitrophenol | 438 | ND | | 0* | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 438 | ND | | 0* | 48 - 118 | NC DIL |
| Pentachlorophenol | 438 | ND | | 0* | 18 - 125 | NC DIL |
| Pyrene | 438 | 56000 | | 0* | 39 - 113 | NC DIL |
| 4-Methylphenol | 438 | 2200 | | 0* | 43 - 107 | NC DIL |
| Hexachloroethane | 438 | ND | | 0* | 40 - 102 | NC DIL |
| Naphthalene | 438 | 410000 | | 0* | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 438 | ND | | 0* | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 438 | ND | | 0* | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: CT-SO-B04-18

Level: (low/med) LOW

Lot #: C9F050380

WO #: LEFWQ1CT

BATCH: 9160050

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|--------|
| Hexachloroethane | 438 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 438 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Methylphenol | 438 | | 0* | | 36 | 43 - 107 | NC DIL |
| 4-Bromophenyl phenyl ethe | 438 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 438 | | 0* | | 34 | 40 - 117 | NC DIL |
| Phenol | 438 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 438 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 438 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 438 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 438 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 438 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 438 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 438 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 438 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 438 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 438 | | 0* | | 28 | 39 - 113 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits

Spike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEJM51AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0609005.

Lot Number: C9F050380

Date Analyzed: 06/09/09

Time Analyzed: 11:00

Matrix: SOLID

Date Extracted:06/09/09

GC Column: DB5

ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B04-10 | LEFWN1AC | N0609007. | 06/09/09 | 11:39 |
| 02 | CT-SO-B04-18 | LEFWQ1AC | N0609008. | 06/09/09 | 11:59 |
| 03 | CT-SO-B04-18 | LEFWQ1CR S | N0609009. | 06/09/09 | 12:38 |
| 04 | CT-SO-B04-18 | LEFWQ1CT D | N0609010. | 06/09/09 | 12:58 |
| 05 | CT-SO-B04-18 DL | LEFWQ2AC | N0609012. | 06/09/09 | 13:17 |
| 06 | CT-SO-B04-14 | LEFWR1AC | N0609013. | 06/09/09 | 13:37 |
| 07 | CHECK SAMPLE | LEJM51AC C | N0609006. | 06/09/09 | 11:20 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: C9F050380
MB Lot-Sample #: C9F090000-050

Work Order #....: LEJM51AA

Matrix.....: SOLID

Analysis Date...: 06/09/09

Prep Date.....: 06/09/09

Analysis Time...: 11:00

Dilution Factor: 0.5

Prep Batch #....: 9160050

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 733

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|------------------------|--------|--------------------|-------|-------------|
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo(a)anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo(a)pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Indeno(1,2,3-cd)pyrene | ND | 3.4 | ug/kg | SW846 8270C |
| Dibenzo(a,h)anthracene | ND | 3.4 | ug/kg | SW846 8270C |
| Benzo(ghi)perylene | ND | 3.4 | ug/kg | SW846 8270C |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 59 | (27 - 110) |
| Terphenyl-d14 | 67 | (21 - 130) |
| 2-Fluorobiphenyl | 55 | (28 - 108) |
| 2-Fluorophenol | 60 | (28 - 107) |
| Phenol-d5 | 63 | (30 - 112) |
| 2,4,6-Tribromophenol | 46 | (21 - 116) |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH

Contract:

Lab Code: TA

Case No.:

SAS No.:

SDG No.: C9F050380

Lab File ID (Standard): N06090CC

Date Analyzed: 06/09/09

Instrument ID: 733

Time Analyzed: 0904

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 166298 | 4.40 | 645203 | 5.37 | 384747 | 6.71 |
| UPPER LIMIT | 332596 | 4.90 | 1290406 | 5.87 | 769494 | 7.21 |
| LOWER LIMIT | 83149 | 3.90 | 322602 | 4.87 | 192374 | 6.21 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 161582 | 4.41 | 659562 | 5.38 | 405679 | 6.72 |
| 02 INTRA-LAB CH | 156022 | 4.41 | 614032 | 5.38 | 361523 | 6.72 |
| 03 CT-SO-B04-10 | 169149 | 4.41 | 691047 | 5.38 | 394272 | 6.71 |
| 04 CT-SO-B04-18 | 161459 | 4.40 | 645181 | 5.37 | 372585 | 6.71 |
| 05 CT-SO-B04-18 | 165242 | 4.41 | 645711 | 5.38 | 380198 | 6.71 |
| 06 CT-SO-B04-18 | 156750 | 4.41 | 625178 | 5.38 | 368018 | 6.71 |
| 07 CT-SO-B04-18 | 167849 | 4.41 | 664370 | 5.38 | 392129 | 6.71 |
| 08 CT-SO-B04-14 | 166882 | 4.41 | 681776 | 5.38 | 393063 | 6.71 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9F050380
Lab File ID (Standard): N06090CC Date Analyzed: 06/09/09
Instrument ID: 733 Time Analyzed: 0904

| | IS4 (PHN) | RT # | IS5 (CRY) | RT # | IS6 (PRY) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 618699 | 7.85 | 459488 | 9.88 | 329351 | 11.17 |
| UPPER LIMIT | 1237398 | 8.35 | 918976 | 10.38 | 658702 | 11.67 |
| LOWER LIMIT | 309350 | 7.35 | 229744 | 9.38 | 164676 | 10.67 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 678702 | 7.85 | 458247 | 9.88 | 315587 | 11.18 |
| 02 INTRA-LAB CH | 587987 | 7.85 | 427142 | 9.88 | 311904 | 11.18 |
| 03 CT-SO-B04-10 | 630422 | 7.85 | 448714 | 9.88 | 343422 | 11.18 |
| 04 CT-SO-B04-18 | 602242 | 7.84 | 442806 | 9.87 | 337082 | 11.16 |
| 05 CT-SO-B04-18 | 590201 | 7.85 | 438906 | 9.87 | 336756 | 11.17 |
| 06 CT-SO-B04-18 | 587333 | 7.85 | 427676 | 9.87 | 348944 | 11.17 |
| 07 CT-SO-B04-18 | 621868 | 7.85 | 443161 | 9.88 | 345889 | 11.17 |
| 08 CT-SO-B04-14 | 629207 | 7.84 | 448945 | 9.87 | 360153 | 11.17 |
| 09 | | | | | | |
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| 22 | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

TOTAL Metals

Lot-Sample #....: C9F050380-001

Matrix.....: SOLID

Date Sampled....: 06/04/09

Date Received...: 06/05/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|--------------------------|--------|-------------------------|-------|-------------------------|-------------------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Prep Batch #...: 9157086 | | | | | | |
| Silver | 0.20 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0016 | |
| Arsenic | 7.5 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.011 | |
| Beryllium | 2.6 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0024 | |
| Cadmium | 0.53 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0060 | |
| Chromium | 67.6 J | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0053 | |
| Copper | 31.6 | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0056 | |
| Nickel | 64.3 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0045 | |
| Lead | 87.3 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |
| Antimony | 0.38 | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

TOTAL Metals

Lot-Sample #...: C9F050380-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|-------------------------|-------|------------------------|-------------------------------|-----------------|
| Selenium | 4.5 J | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.027 | |
| Thallium | 0.078 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0013 | |
| Zinc | 89.8 | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0077 | |

Prep Batch #...: 9160028

| | | | | | | |
|---------|-------|--------------------------|-------|------------------------|-------------------------|----------|
| Mercury | 0.072 | 0.022 | mg/kg | SW846 7471A | 06/09/09 | LEFWN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time..: 08:08 | Analyst ID.....: 031043 | |
| | | Instrument ID..: HGHYDRA | | MS Run #.....: 9160014 | MDL.....: 0.0072 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

TOTAL Metals

Lot-Sample #...: C9F050380-002

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|--------------------------|---------|--------------------------|-------|-------------------------|-------------------------|----------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Prep Batch #...: 9157086 | | | | | | |
| Silver | 0.064 B | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0016 | |
| Arsenic | 2.2 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.011 | |
| Beryllium | 0.48 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0024 | |
| Cadmium | 0.20 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0060 | |
| Chromium | 25.2 J | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0053 | |
| Copper | 10.4 | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0056 | |
| Nickel | 22.0 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0045 | |
| Lead | 31.5 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |
| Antimony | 0.12 B | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

TOTAL Metals

Lot-Sample #....: C9F050380-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|------------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.70 J | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.027 | |
| Thallium | 0.050 B,E | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0013 | |
| Zinc | 52.4 | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0077 | |

Prep Batch #....: 9160028

| | | | | | | |
|----------------|--------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.029 | 0.022 | mg/kg | SW846 7471A | 06/09/09 | LEFWQ1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:10 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9160014 | MDL.....: 0.0072 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

TOTAL Metals

Lot-Sample #...: C9F050380-003

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

% Moisture.....: 18

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------------|---------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9157086 | | | | | | |
| Silver | 0.13 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0015 | |
| Arsenic | 8.0 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.010 | |
| Beryllium | 3.1 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0023 | |
| Cadmium | 0.50 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0056 | |
| Chromium | 70.2 J | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0049 | |
| Copper | 30.3 | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0052 | |
| Nickel | 26.7 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0042 | |
| Lead | 43.8 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0021 | |
| Antimony | 0.62 | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0020 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

TOTAL Metals

Lot-Sample #....: C9F050380-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|--------------|--------------------------|--------------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.8 J | 0.31 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.025 | |
| | | | | | | |
| Thallium | 0.063 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0012 | |
| | | | | | | |
| Zinc | 55.5 | 0.31 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0071 | |

Prep Batch #....: 9160028

| | | | | | | |
|----------------|--------------|---------------------------|--------------|-------------------------|-------------------------|-----------------|
| Mercury | 0.087 | 0.020 | mg/kg | SW846 7471A | 06/09/09 | LEFWR1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:15 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9160014 | MDL.....: 0.0067 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---|---------|-------------------------|-------|-------------------------|-------------------------------|-----------------|
| MB Lot-Sample #: C9F060000-086 Prep Batch #....: 9157086 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Chromium | 0.014 B | 0.10 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Selenium | 0.051 B | 0.25 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:02 | | Analyst ID.....: 400149 | Instrument ID...: ICP | |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-------------------------|--------|-------------------------|-------|-----------------------|-------------------------------|-----------------|
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEGC91AM |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:02 | | Analyst ID.....: 400149 | | Instrument ID...: ICP | | |

MB Lot-Sample #: C9F090000-028 Prep Batch #....: 9160028

| | | | | | | |
|-------------------------|----|-------------------------|-------|-----------------------|----------|----------|
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/09/09 | LEJMH1AA |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 08:05 | | Analyst ID.....: 031043 | | Instrument ID...: HGH | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F060000-086 Prep Batch #....: 9157086 | | | | | |
| Arsenic | 85 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AP |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 94 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AQ |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 94 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AR |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 98 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AT |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 97 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AU |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 93 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AV |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 100 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AW |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 95 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AX |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 103 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91AO |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Thallium | 96 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91A1 |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|-------------|-------------------------------|--------------|
| Zinc | 86 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91A2 |
| Dilution Factor: 0.5 Analysis Time...: 20:06 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| Silver | 101 | (80 - 120) | SW846 6020 | 06/06-06/10/09 | LEGC91A3 |
| Dilution Factor: 0.5 Analysis Time...: 20:06 Analyst ID.....: 400149 | | | | | |
| Instrument ID...: ICPMS2 | | | | | |
| LCS Lot-Sample#: C9F090000-028 Prep Batch #....: 9160028 | | | | | |
| Mercury | 94 | (80 - 120) | SW846 7471A | 06/09/09 | LEJMH1AC |
| Dilution Factor: 0.5 Analysis Time...: 08:06 Analyst ID.....: 031043 | | | | | |
| Instrument ID...: HGHYDRA | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|--------------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: C9F060000-086 Prep Batch #....: 9157086 | | | | | | | |
| Arsenic | 2.00 | 1.70 | mg/kg | 85 | SW846 6020 | 06/06-06/10/09 | LEGC91AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 2.50 | 2.36 | mg/kg | 94 | SW846 6020 | 06/06-06/10/09 | LEGC91AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 2.50 | 2.36 | mg/kg | 94 | SW846 6020 | 06/06-06/10/09 | LEGC91AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Chromium | 10.0 | 9.81 | mg/kg | 98 | SW846 6020 | 06/06-06/10/09 | LEGC91AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Copper | 12.5 | 12.1 | mg/kg | 97 | SW846 6020 | 06/06-06/10/09 | LEGC91AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Nickel | 25.0 | 23.4 | mg/kg | 93 | SW846 6020 | 06/06-06/10/09 | LEGC91AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Lead | 1.00 | 0.996 | mg/kg | 100 | SW846 6020 | 06/06-06/10/09 | LEGC91AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Antimony | 25.0 | 23.9 | mg/kg | 95 | SW846 6020 | 06/06-06/10/09 | LEGC91AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Selenium | 0.500 | 0.516 | mg/kg | 103 | SW846 6020 | 06/06-06/10/09 | LEGC91A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |
| Thallium | 2.50 | 2.39 | mg/kg | 96 | SW846 6020 | 06/06-06/10/09 | LEGC91A1 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:06 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|-------------|-------------------------------|-----------------|
| Zinc | 25.0 | 21.6 | mg/kg | 86 | SW846 6020 | 06/06-06/10/09 | LEGC91A2 |
| Dilution Factor: 0.5 Analysis Time...: 20:06 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.53 | mg/kg | 101 | SW846 6020 | 06/06-06/10/09 | LEGC91A3 |
| Dilution Factor: 0.5 Analysis Time...: 20:06 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| LCS Lot-Sample#: C9F090000-028 Prep Batch #....: 9160028 | | | | | | | |
| Mercury | 0.208 | 0.196 | mg/kg | 94 | SW846 7471A | 06/09/09 | LEJMH1AC |
| Dilution Factor: 0.5 Analysis Time...: 08:06 Analyst ID.....: 031043 | | | | | | | |
| Instrument ID...: HGHYDRA | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

Date Sampled....: 06/04/09

Date Received...: 06/05/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| MS Lot-Sample #: C9F050380-002 Prep Batch #....: 9157086 | | | | | | |
| | | | | | % Moisture.....: 24 | |
| Antimony | 62 N | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CD |
| | 64 N | (75 - 125) | 3.3 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CE |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Arsenic | 92 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1AW |
| | 95 | (75 - 125) | 1.9 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1AX |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Beryllium | 95 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A0 |
| | 94 | (75 - 125) | 0.97 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1A1 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Cadmium | 93 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A2 |
| | 92 | (75 - 125) | 0.63 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1A3 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Chromium | 161 N | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A4 |
| | 103 | (75 - 125) | 18 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1A5 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Copper | 131 N | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A6 |
| | 90 * | (75 - 125) | 23 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1A7 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Lead | NC | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CA |
| | NC | (75 - 125) | (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CC |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F050380

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|--------------------|---------------|------------|-------------------------------|-----------------|
| Nickel | 118 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A8 |
| | 82 * | (75 - 125) | 21 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1A9 |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Selenium | 84 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CF |
| | 77 | (75 - 125) | 3.5 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CG |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Silver | 96 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CM |
| | 97 | (75 - 125) | 0.64 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CN |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Thallium | 93 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CH |
| | 94 | (75 - 125) | 1.1 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CJ |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |
| Zinc | 93 | (75 - 125) | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CK |
| | 42 N, * | (75 - 125) | 22 (0-20) | SW846 6020 | 06/06-06/10/09 | LEFWQ1CL |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | |
| MS Run #.....: 9157040 | | | | | | |

MS Lot-Sample #: C9F050380-002 Prep Batch #...: 9160028

% Moisture.....: 24

| | | | | | | |
|---|----|------------|------------|-------------|----------|----------|
| Mercury | 88 | (75 - 125) | | SW846 7471A | 06/09/09 | LEFWQ1CP |
| | 82 | (75 - 125) | 5.4 (0-20) | SW846 7471A | 06/09/09 | LEFWQ1CQ |
| Dilution Factor: 0.5 | | | | | | |
| Analysis Time...: 08:11 Instrument ID...: HGHYDRA Analyst ID.....: 031043 | | | | | | |
| MS Run #.....: 9160014 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

Date Sampled....: 06/04/09

Date Received...: 06/05/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|
|-----------|---------------|-----------|---------------|-------|---------------|-----|--------|----------------------------|--------------|

MS Lot-Sample #: C9F050380-002 Prep Batch #....: 9157086

% Moisture.....: 24

Antimony

| | | | | | | | | |
|--|------|--------|-------|----|-----|------------|----------------|----------|
| 0.12 | 32.9 | 20.3 N | mg/kg | 62 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CD |
| 0.12 | 32.9 | 21.0 N | mg/kg | 64 | 3.3 | SW846 6020 | 06/06-06/10/09 | LEFWQ1CE |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

Arsenic

| | | | | | | | | |
|--|------|------|-------|----|-----|------------|----------------|----------|
| 2.2 | 2.63 | 4.59 | mg/kg | 92 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1AW |
| 2.2 | 2.63 | 4.68 | mg/kg | 95 | 1.9 | SW846 6020 | 06/06-06/10/09 | LEFWQ1AX |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

Beryllium

| | | | | | | | | |
|--|------|------|-------|----|------|------------|----------------|----------|
| 0.48 | 3.29 | 3.60 | mg/kg | 95 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A0 |
| 0.48 | 3.29 | 3.57 | mg/kg | 94 | 0.97 | SW846 6020 | 06/06-06/10/09 | LEFWQ1A1 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

Cadmium

| | | | | | | | | |
|--|------|------|-------|----|------|------------|----------------|----------|
| 0.20 | 3.29 | 3.25 | mg/kg | 93 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A2 |
| 0.20 | 3.29 | 3.23 | mg/kg | 92 | 0.63 | SW846 6020 | 06/06-06/10/09 | LEFWQ1A3 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

Chromium

| | | | | | | | | |
|--|------|--------|-------|-----|----|------------|----------------|----------|
| 25.2 | 13.1 | 46.4 N | mg/kg | 161 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A4 |
| 25.2 | 13.1 | 38.8 | mg/kg | 103 | 18 | SW846 6020 | 06/06-06/10/09 | LEFWQ1A5 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

Copper

| | | | | | | | | |
|--|------|--------|-------|-----|----|------------|----------------|----------|
| 10.4 | 16.4 | 31.9 N | mg/kg | 131 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A6 |
| 10.4 | 16.4 | 25.2 * | mg/kg | 90 | 23 | SW846 6020 | 06/06-06/10/09 | LEFWQ1A7 |
| Dilution Factor: 0.5 | | | | | | | | |
| Analysis Time...: 20:41 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

Date Sampled....: 06/04/09

Date Received...: 06/05/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------------|-----------|---------------|-------|---------------|------|------------|----------------------------|--------------|
| Lead | | | | | | | | | |
| | 31.5 | 1.31 | 38.8 NC | mg/kg | | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CA |
| | 31.5 | 1.31 | 24.8 NC | mg/kg | | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CC |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |
| Nickel | | | | | | | | | |
| | 22.0 | 32.9 | 60.6 | mg/kg | 118 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1A8 |
| | 22.0 | 32.9 | 49.0 * | mg/kg | 82 | 21 | SW846 6020 | 06/06-06/10/09 | LEFWQ1A9 |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |
| Selenium | | | | | | | | | |
| | 0.70 | 0.657 | 1.25 | mg/kg | 84 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CF |
| | 0.70 | 0.657 | 1.21 | mg/kg | 77 | 3.5 | SW846 6020 | 06/06-06/10/09 | LEFWQ1CG |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |
| Silver | | | | | | | | | |
| | 0.064 | 3.29 | 3.23 | mg/kg | 96 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CM |
| | 0.064 | 3.29 | 3.25 | mg/kg | 97 | 0.64 | SW846 6020 | 06/06-06/10/09 | LEFWQ1CN |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |
| Thallium | | | | | | | | | |
| | 0.050 | 3.29 | 3.09 | mg/kg | 93 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CH |
| | 0.050 | 3.29 | 3.12 | mg/kg | 94 | 1.1 | SW846 6020 | 06/06-06/10/09 | LEFWQ1CJ |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |
| Zinc | | | | | | | | | |
| | 52.4 | 32.9 | 82.9 | mg/kg | 93 | | SW846 6020 | 06/06-06/10/09 | LEFWQ1CK |
| | 52.4 | 32.9 | 66.2 | mg/kg | 42 | 22 | SW846 6020 | 06/06-06/10/09 | LEFWQ1CL |
| Qualifiers: N,* | | | | | | | | | |
| Dilution Factor: 0.5 | | | | | | | | | |
| Analysis Time...: 20:41 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9157040 | | | | | | | | | |

MS Lot-Sample #: C9F050380-002 Prep Batch #....: 9160028

% Moisture.....: 24

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F050380

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|---------------|-------|---------------|-----|-------------|----------------------------|--------------|
| Mercury | 0.029 | 0.110 | 0.126 | mg/kg | 88 | | SW846 7471A | 06/09/09 | LEFWQ1CP |
| | 0.029 | 0.110 | 0.119 | mg/kg | 82 | 5.4 | SW846 7471A | 06/09/09 | LEFWQ1CQ |

Dilution Factor: 0.5

Analysis Time...: 08:11

Instrument ID...: HGHYDRA

Analyst ID.....: 031043

MS Run #.....: 9160014

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F050380

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B04-10 | C9F050380 001 | LEFWN1AT | 8.3 | mg/kg | 0.11 | 0.66 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |
| CT-SO-B04-18 | C9F050380 002 | LEFWQ1AT | 3.0 | mg/kg | 0.11 | 0.66 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |
| CT-SO-B04-14 | C9F050380 003 | LEFWR1AT | 9.2 | mg/kg | 0.11 | 0.61 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F050380

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B04-10 | C9F050380 001 | LEFWN1AA | 75.7 | % | 0.0 | 1.0 | 1 | 6/8/2009 - 6/9/2009 07:53 | 9159074 |
| CT-SO-B04-18 | C9F050380 002 | LEFWQ1AA | 76.1 | % | 0.0 | 1.0 | 1 | 6/8/2009 - 6/9/2009 07:53 | 9159074 |
| CT-SO-B04-14 | C9F050380 003 | LEFWR1AA | 81.9 | % | 0.0 | 1.0 | 1 | 6/8/2009 - 6/9/2009 07:53 | 9159074 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F050380

Matrix: SOLID

Date/Time Received: 6/3/2009 9:50:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| BLK - C9F090000302B | 302 MB | LEJ541AA | ND | mg/kg | 0.50 | 6/9/2009 - 6/9/2009 16:06 | 9160302 | |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Report ID: C9F050380

Matrix: SOLID

Date/Time Received: 6/5/2009 2:07:00PM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|---------------|-----------|--------|-------|-----------------|------------------------------|----------|-----------------|
| INTRA-LAB QC | 001 DUP | LEFVP1AD | 85.9 | % | 1.0 | 6/8/2009 - 6/9/2009 07:53 | 9159074 | 0.79 / 20 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F090000

Matrix: SOLID

Date/Time Received: 6/3/2009 9:50:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LEJ541AC | 95 | 38 - 162 | 6/9/2009 - 6/9/2009 16:22 | 9160302 | |
| LAB MS/MSD | MS | LD84X1DM | 79 N | 85 - 115 | 6/9/2009 - 6/9/2009 16:06 | 9160302 | 16 / 20 |
| LAB MS/MSD | MSD | LD84X1DN | 93 | 85 - 115 | 6/9/2009 - 6/9/2009 16:06 | 9160302 | 16 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F050380

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B04-10 | C9F050380-001 | Soil |
| 2 | CT-SO-B04-18 | C9F050380-002 | Soil |
| 3 | CT-SO-B04-14 | C9F050380-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| Reference | Cyanide | 79%/Ok/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

1-3

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method:

SW846 9012A

Client Name: Maryland Environmental Service

Lot Number:

C9F050380

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B04-10 | C9F050380 001 | LEFWN1AT | L 8.3 | mg/kg | 0.11 | 0.66 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |
| CT-SO-B04-18 | C9F050380 002 | LEFWQ1AT | L 3.0 | mg/kg | 0.11 | 0.66 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |
| CT-SO-B04-14 | C9F050380 003 | LEFWR1AT | L 9.2 | mg/kg | 0.11 | 0.61 | 1 | 6/9/2009 - 6/9/2009 16:12 | 9160302 |

mw
8/12/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F050380

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B04-10 | C9F050380-001 | Soil |
| 2 | CT-SO-B04-18 | C9F050380-002 | Soil |
| 2MS | CT-SO-B04-18MS | C9F050380-002MS | Soil |
| 2MSD | CT-SO-B04-18MSD | C9F050380-002MSD | Soil |
| 3 | CT-SO-B04-14 | C9F050380-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|------------------|
| 2 | Antimony | 62%/64%/Ok | L/UL | All samples |
| | Chromium | 161%/Ok/Ok | K | All samples |
| | Copper | 131%/Ok/Ok | K | All samples |
| | Zinc | Ok/42%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 2 | Thallium | 13.4% | J | All Samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

TOTAL Metals

Lot-Sample #...: C9F050380-001

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|-----------------|--------------------------|-------|-------------------------|-------------------------------|-------------------------|
| Prep Batch #... | 9157086 | | | | | |
| Silver | 0.20 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0016 |
| Arsenic | 7.5 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.011 |
| Beryllium | 2.6 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0024 |
| Cadmium | 0.53 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0060 |
| Chromium | 67.6 <i>y K</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0053 |
| Copper | 31.6 <i>K</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0056 |
| Nickel | 64.3 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0045 |
| Lead | 87.3 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0022 |
| Antimony | 0.38 <i>L</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:24 | | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | | MDL.....: 0.0022 |

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W
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

TOTAL Metals

Lot-Sample #....: C9F050380-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|---------------------------|----------------|-------------------------|-------|------------------------|-------------------------------|-----------------|
| Selenium | 4.5 <i>J</i> | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AM |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.027 | |
| Thallium | 0.078 <i>J</i> | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AN |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0013 | |
| Zinc | 89.8 <i>L</i> | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWN1AP |
| | | Dilution Factor: 0.5 | | Analysis Time..: 20:24 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0077 | |
| Prep Batch #....: 9160028 | | | | | | |
| Mercury | 0.072 | 0.022 | mg/kg | SW846 7471A | 06/09/09 | LEFWN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time..: 08:08 | Analyst ID.....: 031043 | |
| | | Instrument ID..: HGHDRA | | MS Run #.....: 9160014 | MDL.....: 0.0072 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

hw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

TOTAL Metals

Lot-Sample #...: C9F050380-002

Matrix.....: SOLID

Date Sampled...: 06/04/09

Date Received...: 06/05/09

% Moisture.....: 24

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9157086 | | | | | | |
| Silver | 0.064 <i>J</i> | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0016 | |
| Arsenic | 2.2 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.011 | |
| Beryllium | 0.48 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0024 | |
| Cadmium | 0.20 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0060 | |
| Chromium | 25.2 <i>K</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0053 | |
| Copper | 10.4 <i>K</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0056 | |
| Nickel | 22.0 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0045 | |
| Lead | 31.5 | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |
| Antimony | 0.12 <i>L</i> | 0.13 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0022 | |

(Continued on next page)

hw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

TOTAL Metals

Lot-Sample #....: C9F050380-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-------------------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 0.70 B | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.027 | |
| Thallium | 0.050 B, E J | 0.066 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0013 | |
| Zinc | 52.4 L | 0.33 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWQ1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:33 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0077 | |

Prep Batch #....: 9160028

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.029 | 0.022 | mg/kg | SW846 7471A | 06/09/09 | LEFWQ1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:10 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9160014 | MDL.....: 0.0072 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Matrix interference.

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Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

TOTAL Metals

Lot-Sample #...: C9F050380-003

Date Sampled...: 06/04/09

% Moisture.....: 18

Date Received...: 06/05/09

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9157086 | | | | | | |
| Silver | 0.13 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAQ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0015 | |
| Arsenic | 8.0 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAD |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.010 | |
| Beryllium | 3.1 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAE |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0023 | |
| Cadmium | 0.50 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAF |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0056 | |
| Chromium | 70.2 <i>JK</i> | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAG |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0049 | |
| Copper | 30.3 <i>K</i> | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAH |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0052 | |
| Nickel | 26.7 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAJ |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0042 | |
| Lead | 43.8 | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAK |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0021 | |
| Antimony | 0.62 <i>L</i> | 0.12 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWRIAL |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0020 | |

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Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

TOTAL Metals

Lot-Sample #...: C9F050380-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Selenium | 3.8 <i>J</i> | 0.31 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AM |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.025 | |
| Thallium | 0.063 <i>J</i> | 0.061 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AN |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0012 | |
| Zinc | 55.5 <i>L</i> | 0.31 | mg/kg | SW846 6020 | 06/06-06/10/09 | LEFWR1AP |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:50 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9157040 | MDL.....: 0.0071 | |

Prep Batch #...: 9160028

| | | | | | | |
|---------|-------|---------------------------|-------|-------------------------|-------------------------|----------|
| Mercury | 0.087 | 0.020 | mg/kg | SW846 7471A | 06/09/09 | LEFWR1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 08:15 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9160014 | MDL.....: 0.0067 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

POLYNUCLEAR AROMATIC HYDROCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F050380

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B04-10 | C9F050380-001 | Soil |
| 2 | CT-SO-B04-18 | C9F050380-002 | Soil |
| 2MS | CT-SO-B04-18MS | C9F050380-002MS | Soil |
| 2MSD | CT-SO-B04-18MSD | C9F050380-002MSD | Soil |
| 2DL | CT-SO-B04-18DL | C9F050380-002DL | Soil |
| 3 | CT-SO-B04-14 | C9F050380-003 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - All %R and RPD values were not recovered due to dilution.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - EDS sample ID# 2 exhibited high concentrations of target compounds and were flagged (E) by the laboratory. The laboratory diluted and reanalyzed this sample. The reviewer replaced the original results with the dilution results. The original Form Is should be used for reporting purposes.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-001 Work Order #....: LEFWN1AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 11:10 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 11:39
 Dilution Factor: 39.74 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 970 | 350 | ug/kg | 53 |
| 2-Methylnaphthalene | 1900 | 350 | ug/kg | 69 |
| Naphthalene | 9600 | 350 | ug/kg | 51 |
| Acenaphthylene | 770 | 350 | ug/kg | 70 |
| Acenaphthene | 160 J | 350 | ug/kg | 56 |
| Fluorene | 630 | 350 | ug/kg | 53 |
| Phenanthrene | 3500 | 350 | ug/kg | 42 |
| Anthracene | 700 J | 1700 | ug/kg | 61 |
| Fluoranthene | 3100 | 350 | ug/kg | 30 |
| Pyrene | 2200 | 350 | ug/kg | 93 |
| Benzo(a)anthracene | 1500 | 350 | ug/kg | 56 |
| Chrysene | 1800 | 350 | ug/kg | 61 |
| Benzo(b)fluoranthene | 2200 | 350 | ug/kg | 71 |
| Benzo(k)fluoranthene | ND | 350 | ug/kg | 73 |
| Benzo(a)pyrene | 1200 | 350 | ug/kg | 98 |
| Indeno(1,2,3-cd)pyrene | 730 | 350 | ug/kg | 19 |
| Dibenzo(a,h)anthracene | 290 J | 350 | ug/kg | 77 |
| Benzo(ghi)perylene | 780 | 350 | ug/kg | 26 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-002 Work Order #....: LEFWQ1AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 12:10 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 11:59
 Dilution Factor: 200 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|----------------------------|----------------------|-------|--------------------|
| 1-Methylnaphthalene | 34000 | 1800 | ug/kg | 270 |
| 2-Methylnaphthalene | 83000 | 1800 | ug/kg | 340 |
| Naphthalene | 470000 410000-E | 4400 1800 | ug/kg | 640 250 |
| Acenaphthylene | 56000 | 1800 | ug/kg | 350 |
| Acenaphthene | 4900 | 1800 | ug/kg | 280 |
| Fluorene | 47000 | 1800 | ug/kg | 260 |
| Phenanthrene | 130000 | 1800 | ug/kg | 210 |
| Anthracene | 33000 | 8700 | ug/kg | 310 |
| Fluoranthene | 86000 | 1800 | ug/kg | 150 |
| Pyrene | 56000 | 1800 | ug/kg | 470 |
| Benzo(a)anthracene | 34000 | 1800 | ug/kg | 280 |
| Chrysene | 32000 | 1800 | ug/kg | 310 |
| Benzo(b)fluoranthene | 36000 | 1800 | ug/kg | 350 |
| Benzo(k)fluoranthene | ND | 1800 | ug/kg | 370 |
| Benzo(a)pyrene | 28000 | 1800 | ug/kg | 490 |
| Indeno(1,2,3-cd)pyrene | 13000 | 1800 | ug/kg | 96 |
| Dibenzo(a,h)anthracene | 4000 | 1800 | ug/kg | 390 |
| Benzo(ghi)perylene | 13000 | 1800 | ug/kg | 130 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|------------------|-----------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18 DL

Use original

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-002 Work Order #....: LEFWQ2AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 12:10 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 13:17
 Dilution Factor: 500 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 24 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|------------------------|--------|--------------------|-------|------|
| 1-Methylnaphthalene | 30000 | 4400 | ug/kg | 660 |
| 2-Methylnaphthalene | 74000 | 4400 | ug/kg | 860 |
| Naphthalene | 470000 | 4400 | ug/kg | 640 |
| Acenaphthylene | 49000 | 4400 | ug/kg | 870 |
| Acenaphthene | 4300 J | 4400 | ug/kg | 700 |
| Fluorene | 40000 | 4400 | ug/kg | 660 |
| Phenanthrene | 110000 | 4400 | ug/kg | 520 |
| Anthracene | 28000 | 22000 | ug/kg | 770 |
| Fluoranthene | 73000 | 4400 | ug/kg | 370 |
| Pyrene | 49000 | 4400 | ug/kg | 1200 |
| Benzo(a)anthracene | 31000 | 4400 | ug/kg | 700 |
| Chrysene | 27000 | 4400 | ug/kg | 770 |
| Benzo(b)fluoranthene | 33000 | 4400 | ug/kg | 890 |
| Benzo(k)fluoranthene | ND | 4400 | ug/kg | 910 |
| Benzo(a)pyrene | 24000 | 4400 | ug/kg | 1200 |
| Indeno(1,2,3-cd)pyrene | 12000 | 4400 | ug/kg | 240 |
| Dibenzo(a,h)anthracene | 2400 J | 4400 | ug/kg | 960 |
| Benzo(ghi)perylene | 12000 | 4400 | ug/kg | 320 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Semivolatiles

Lot-Sample #....: C9F050380-003 Work Order #....: LEFWR1AC Matrix.....: SOLID
 Date Sampled....: 06/04/09 12:30 Date Received...: 06/05/09 09:50 MS Run #.....: 9160023
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160050 Analysis Time...: 13:37
 Dilution Factor: 12.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 18 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 480 | 100 | ug/kg | 15 |
| 2-Methylnaphthalene | 1200 | 100 | ug/kg | 20 |
| Naphthalene | 7100 | 100 | ug/kg | 15 |
| Acenaphthylene | 670 | 100 | ug/kg | 20 |
| Acenaphthene | 120 | 100 | ug/kg | 16 |
| Fluorene | 600 | 100 | ug/kg | 15 |
| Phenanthrene | 2600 | 100 | ug/kg | 12 |
| Anthracene | 860 | 500 | ug/kg | 18 |
| Fluoranthene | 2800 | 100 | ug/kg | 8.6 |
| Pyrene | 2000 | 100 | ug/kg | 27 |
| Benzo (a) anthracene | 1400 | 100 | ug/kg | 16 |
| Chrysene | 1300 | 100 | ug/kg | 18 |
| Benzo (b) fluoranthene | 1600 | 100 | ug/kg | 21 |
| Benzo (k) fluoranthene | ND | 100 | ug/kg | 21 |
| Benzo (a) pyrene | 1200 | 100 | ug/kg | 29 |
| Indeno (1,2,3-cd) pyrene | 620 | 100 | ug/kg | 5.6 |
| Dibenzo (a,h) anthracene | 170 | 100 | ug/kg | 22 |
| Benzo (ghi) perylene | 610 | 100 | ug/kg | 7.5 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F050380

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B04-10 | C9F050380-001 | Soil |
| 2 | CT-SO-B04-18 | C9F050380-002 | Soil |
| 3 | CT-SO-B04-14 | C9F050380-003 | Soil |
| 4 | TRIP BLANK | C9F050380-004 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------|-----------|-------------------------------|
| 06/08/09 | Chloroethane | 29.4% | None | All ND |
| | 2-Butanone | 22.2% | None | All ND |
| | 1,2-Dichloroethane | 26.7% | None | All ND |
| | 1,1,2,2-Tetrachloroethane | 29.2% | None | All ND |
| | Acrolein | 0.039 RRF | None | Already qualified due to ICAL |
| 06/09/09 | Acrolein | 0.029 RRF | None | Already qualified due to ICAL |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Volatiles

Lot-Sample #....: C9F050380-001 Work Order #....: LEFWN1AV Matrix.....: SOLID
 Date Sampled...: 06/04/09 Date Received...: 06/05/09 MS Run #.....:
 Prep Date.....: 06/08/09 Analysis Date...: 06/08/09
 Prep Batch #....: 9159373 Analysis Time...: 13:28
 Dilution Factor: 0.94 Initial Wgt/Vol: 5.33 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 24 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-----------------|--------------------|-------|-----|
| Acrolein | ND R | 6200 | ug/kg | 980 |
| Acrylonitrile | ND | 6200 | ug/kg | 500 |
| Benzene | 510 | 310 | ug/kg | 61 |
| Bromodichloromethane | ND | 310 | ug/kg | 58 |
| Bromoform | ND | 310 | ug/kg | 66 |
| Bromomethane | ND | 310 | ug/kg | 98 |
| 2-Butanone (MEK) | ND | 310 | ug/kg | 67 |
| Carbon tetrachloride | ND | 310 | ug/kg | 67 |
| Chloroethane | ND | 310 | ug/kg | 46 |
| 2-Chloroethyl vinyl ether | ND | 620 | ug/kg | 69 |
| Chloroform | ND | 310 | ug/kg | 63 |
| Chloromethane | ND | 310 | ug/kg | 58 |
| Dibromochloromethane | ND | 310 | ug/kg | 40 |
| 1,2-Dichlorobenzene | ND | 310 | ug/kg | 42 |
| 1,3-Dichlorobenzene | ND | 310 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 310 | ug/kg | 33 |
| trans-1,2-Dichloroethene | ND | 310 | ug/kg | 47 |
| Dichlorodifluoromethane | ND | 310 | ug/kg | 39 |
| 1,1-Dichloroethane | ND | 310 | ug/kg | 63 |
| 1,2-Dichloroethane | ND | 310 | ug/kg | 60 |
| 1,1-Dichloroethene | ND | 310 | ug/kg | 66 |
| 1,2-Dichloropropane | ND | 310 | ug/kg | 79 |
| cis-1,3-Dichloropropene | ND | 310 | ug/kg | 45 |
| trans-1,3-Dichloropropene | ND | 310 | ug/kg | 36 |
| Ethylbenzene | ND | 310 | ug/kg | 39 |
| Methylene chloride | ND | 310 | ug/kg | 68 |
| 1,1,2,2-Tetrachloroethane | ND | 310 | ug/kg | 58 |
| Tetrachloroethene | ND | 310 | ug/kg | 51 |
| Toluene | 280 J | 310 | ug/kg | 53 |
| 1,1,1-Trichloroethane | ND | 310 | ug/kg | 64 |
| 1,1,2-Trichloroethane | ND | 310 | ug/kg | 72 |
| Trichloroethene | ND | 310 | ug/kg | 50 |
| Trichlorofluoromethane | ND | 310 | ug/kg | 70 |
| Vinyl chloride | ND | 310 | ug/kg | 80 |

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Maryland Environmental Service

Client Sample ID: CT-SO-B04-10

GC/MS Volatiles

Lot-Sample #....: C9F050380-001 Work Order #....: LEFWN1AV

Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 80 | (52 - 124) |
| Toluene-d8 | 104 | (72 - 127) |
| 4-Bromofluorobenzene | 103 | (63 - 120) |
| Dibromofluoromethane | 97 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

hw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Volatiles

Lot-Sample #....: C9F050380-002 Work Order #....: LEFWQ1AV Matrix.....: SOLID
Date Sampled....: 06/04/09 Date Received...: 06/05/09 MS Run #.....:
Prep Date.....: 06/08/09 Analysis Date...: 06/08/09
Prep Batch #....: 9159373 Analysis Time...: 12:41
Dilution Factor: 0.92 Initial Wgt/Vol.: 5.42 g Final Wgt/Vol...: 5 mL
% Moisture.....: 24 Analyst ID.....: 034635 Instrument ID...: HP4
Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 6000 | ug/kg | 960 |
| Acrylonitrile | ND | 6000 | ug/kg | 490 |
| Benzene | 4700 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 56 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 95 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 66 |
| Carbon tetrachloride | ND | 300 | ug/kg | 65 |
| Chloroethane | ND | 300 | ug/kg | 45 |
| 2-Chloroethyl vinyl ether | ND | 600 | ug/kg | 67 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 56 |
| Dibromochloromethane | ND | 300 | ug/kg | 39 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 41 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 61 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 64 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 77 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 320 | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 56 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 4500 | 300 | ug/kg | 51 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 62 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 70 |
| Trichloroethene | ND | 300 | ug/kg | 48 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 78 |

(Continued on next page)

WJ
8/2/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-18

GC/MS Volatiles

Lot-Sample #...: C9F050380-002 Work Order #...: LEFWQ1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 79 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Law
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F050380-003 | Work Order #....: LEFWRLAV | Matrix.....: SOLID |
| Date Sampled....: 06/04/09 | Date Received...: 06/05/09 | MS Run #.....: |
| Prep Date.....: 06/08/09 | Analysis Date...: 06/08/09 | |
| Prep Batch #....: 9159373 | Analysis Time...: 13:04 | |
| Dilution Factor: 0.97 | Initial Wgt/Vol: 5.13 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 18 | Analyst ID.....: 034635 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 5900 | ug/kg | 940 |
| Acrylonitrile | ND | 5900 | ug/kg | 480 |
| Benzene | 750 | 300 | ug/kg | 59 |
| Bromodichloromethane | ND | 300 | ug/kg | 55 |
| Bromoform | ND | 300 | ug/kg | 63 |
| Bromomethane | ND | 300 | ug/kg | 93 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 64 |
| Carbon tetrachloride | ND | 300 | ug/kg | 64 |
| Chloroethane | ND | 300 | ug/kg | 44 |
| 2-Chloroethyl vinyl ether | ND | 590 | ug/kg | 66 |
| Chloroform | ND | 300 | ug/kg | 60 |
| Chloromethane | ND | 300 | ug/kg | 55 |
| Dibromochloromethane | ND | 300 | ug/kg | 38 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 40 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 30 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 60 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 57 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 63 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 76 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 43 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 40 J | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 65 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 55 |
| Tetrachloroethene | ND | 300 | ug/kg | 49 |
| Toluene | ND | 300 | ug/kg | 50 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 61 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 69 |
| Trichloroethene | ND | 300 | ug/kg | 47 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 66 |
| Vinyl chloride | ND | 300 | ug/kg | 76 |

(Continued on next page)

1111
8/12/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B04-14

GC/MS Volatiles

Lot-Sample #...: C9F050380-003 Work Order #...: LEFWR1AV Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 82 | (52 - 124) |
| Toluene-d8 | 103 | (72 - 127) |
| 4-Bromofluorobenzene | 102 | (63 - 120) |
| Dibromofluoromethane | 98 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

lw
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F050380-004 Work Order #....: LEFWV1AA Matrix.....: WATER
 Date Sampled....: 06/04/09 Date Received...: 06/05/09 MS Run #.....: 9160269
 Prep Date.....: 06/09/09 Analysis Date...: 06/09/09
 Prep Batch #....: 9160429 Analysis Time...: 16:51
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|------|
| Acrolein | ND R | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

lw
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F050380-004 Work Order #....: LEFWV1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 82 | (62 - 123) |
| Toluene-d8 | 100 | (80 - 120) |
| 4-Bromofluorobenzene | 100 | (75 - 120) |
| Dibromofluoromethane | 101 | (80 - 120) |

ANALYTICAL REPORT

PROJECT NO. MES SPARROWS

MES Sparrows Point 18001868

Lot #: C9F100297

Megan Simon

Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108

TESTAMERICA LABORATORIES, INC.


Carrie L. Gamber
Project Manager

June 17, 2009



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
 WW Non-potable Water and/or Wastewater certification
 X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
Maryland Environmental Service
Sparrows Point

LOT # C9F100297

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on June 10, 2009. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was adjusted to account for the percent moisture of each sample whenever possible.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

Due to the concentration of target compounds detected, the sediment samples were analyzed as medium level.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D > 25%; but were within expected performance range for these compounds.

The method blank had toluene detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had toluene detected had the result flagged with a "B" qualifier.

GC/MS Semivolatiles:

Due to the concentration of target compounds detected, the samples were analyzed at a dilution. Samples CT-SO-B05-8 and CT-SO-B05-20 had the surrogates diluted out.

Sample CT-SO-B05-16 had the surrogate recovery of 2,4,6-tribromophenol recover below the control limit. The sample was analyzed at a dilution, therefore no reextraction was performed.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

METHODS SUMMARY

C9F100297

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|--|------------------------------|-------------------------------|
| Cyanide, Total | SW846 9012A | SW846 9012A |
| ICP-MS (6020) | SW846 6020 | SW846 3050B |
| Mercury in Solid Waste (Manual Cold-Vapor) | SW846 7471A | SW846 7471A |
| Semivolatile Organics GCMS BNA 8270C | SW846 8270C | |
| Total Residue as Percent Solids | SM20 2540G | |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C9F100297

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|-----------------|--------------|
| LENHE | 001 | CT-SO-B05-8 | 06/09/09 | 11:20 |
| LENHL | 002 | CT-SO-B05-16 | 06/09/09 | 12:15 |
| LENHN | 003 | CT-SO-B05-20 | 06/09/09 | 12:30 |
| LENHQ | 004 | TRIP BLANK | 06/09/09 | |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COC # 10

[illegible]

Cooler Receipt Form
TestAmerica Pittsburgh

Client: MES Project: _____ Quote: 82013
Cooler Rec'd & Opened for Temp. Check on: 6 10 9
Coolers Opened and Unpacked on: 6 10 9 By: JL (Signature)
TestAmerica Pittsburgh Lot Number: C9F100297

| | Yes | No | NA |
|---|-----|----|----|
| 1. Were custody seals on the outside of the cooler? _____ | / | | |
| If YES, how many and where? Quantity <u>1</u> Location <u>F</u> | | | |
| Were signatures and date correct? _____ | / | | |
| 2. Were custody papers included inside the cooler? _____ | / | | |
| 3. Were custody papers properly filled out (ink, signed, match labels)? _____ | / | | |
| 4. Did you sign the custody papers in the appropriate place? _____ | / | | |
| 5. Was shippers packing slip attached to this form? _____ | / | | |
| 6. Were packing materials used? _____ | / | | |
| If YES, what type? <u>BUBBLE BAGS</u> | | | |
| 7. Were the samples received within the acceptable temperature range? _____ | / | | |
| 8. Were the samples appropriately preserved? _____ | / | | |
| 9. Were all bottles sealed in separate plastic bags? _____ | / | | |
| 10. Did all bottles arrive in good condition (unbroken)? _____ | / | | |
| 11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____ | / | | |
| 12. Did all bottle labels and/or tags agree with custody papers? _____ | / | | |
| 13. Were correct bottles used for tests indicated? _____ | / | | |
| 14. Were all VOA vials checked for the presence of air bubbles? _____ | / | | |
| 15. Was a sufficient amount of sample sent in each bottle? _____ | / | | |
| 16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER DHL US CARGO | | | |

Explain any discrepancies: _____

Level 2 Review _____
Was contacted on _____ by _____ to resolve discrepancies.

TestAmerica Pittsburgh

P: Preserved
UP: Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

[illegible]

*Acceptable Temperature Range: $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

[illegible]

****Please use an asterisk if bottle lot number was covered by the label**

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____
Sulfuric Acid _____

Hydrochloric Acid _____
Sodium Hydroxide _____

FedEx US Airbill
Express

8694 4003 0300

0200

Form
IG No.

FedEx Retrieval Copy

1 From **6/19/09** Sender's FedEx Account Number **0212-0722-5**
Date

Sender's Name **Steve Yankay** Phone **717 487-6632**

Company **EA Engineering**

Address **15 Loveton Circle**

City **Sparks** State **MD** ZIP **21152**

2 Your Internal Billing Reference **1453406.0001.0004B**

3 To Recipient's Name **Sample Receiving** Phone **412 963-2428**

Company **Test America**

Recipient's Address **30 Alpha Drive**

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address **RIDC Park**

To request a package be held at a specific FedEx location, print FedEx address here.
City **P. Hshburgh** State **PA** ZIP **15238**



8694 4003 0300

4a Express Package Service

Packages up to 150 lbs.*

- 1 ☐ FedEx Priority Overnight
Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 5 ☒ FedEx Standard Overnight
Next business afternoon. * Saturday Delivery NOT available.
- 6 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. * Saturday Delivery NOT available.
- 3 ☐ FedEx 2Day
Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 20 ☐ FedEx Express Saver
Third business day. * Saturday Delivery NOT available.
- * To meet locations.

4b Express Freight Service

Packages over 150 lbs.

- 7 ☐ FedEx 1Day Freight*
Next business day. ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 8 ☐ FedEx 2Day Freight
Second business day. ** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 83 ☐ FedEx 3Day Freight
Third business day. ** Saturday Delivery NOT available.
- ** To meet locations.

5 Packaging

- 6 ☐ FedEx Envelope* 2 ☐ FedEx Pak*
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other
- * Declared value limit \$500.

6 Special Handling

Include FedEx address in Section 3.

- 3 ☐ SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- 1 ☐ HOLD Weekday at FedEx Location
Not available for FedEx First Overnight.
- 31 ☐ HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?
One box must be checked.

- ☒ No 4 ☐ Yes
As per attached Shipper's Declaration
- ☐ Yes
Shipper's Declaration not required.
- 6 ☐ Dry Ice
Dry ice, 9, UN 1845
- ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

- 1 ☒ Sender Acct. No. in Section 1 will be billed.
- 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages **1** Total Weight **26**

Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

- No Signature Required ☐ 10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.
- 34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F100297-001 | Work Order #....: LENHE1AU | Matrix.....: SOLID |
| Date Sampled....: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 10:49 | |
| Dilution Factor: 0.98 | Initial Wgt/Vol: 5.12 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 9.9 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------|--------------------|--------------|-----------|
| Acrolein | ND | 5400 | ug/kg | 860 |
| Acrylonitrile | ND | 5400 | ug/kg | 440 |
| Benzene | 120 J | 270 | ug/kg | 54 |
| Bromodichloromethane | ND | 270 | ug/kg | 51 |
| Bromoform | ND | 270 | ug/kg | 58 |
| Bromomethane | ND | 270 | ug/kg | 86 |
| 2-Butanone (MEK) | ND | 270 | ug/kg | 59 |
| Carbon tetrachloride | ND | 270 | ug/kg | 59 |
| Chloroethane | ND | 270 | ug/kg | 41 |
| 2-Chloroethyl vinyl ether | ND | 540 | ug/kg | 60 |
| Chloroform | ND | 270 | ug/kg | 55 |
| Chloromethane | ND | 270 | ug/kg | 50 |
| Dibromochloromethane | ND | 270 | ug/kg | 35 |
| 1,2-Dichlorobenzene | ND | 270 | ug/kg | 37 |
| 1,3-Dichlorobenzene | ND | 270 | ug/kg | 28 |
| 1,4-Dichlorobenzene | ND | 270 | ug/kg | 29 |
| trans-1,2-Dichloroethene | ND | 270 | ug/kg | 41 |
| Dichlorodifluoromethane | ND | 270 | ug/kg | 35 |
| 1,1-Dichloroethane | ND | 270 | ug/kg | 55 |
| 1,2-Dichloroethane | ND | 270 | ug/kg | 52 |
| 1,1-Dichloroethene | ND | 270 | ug/kg | 58 |
| 1,2-Dichloropropane | ND | 270 | ug/kg | 69 |
| cis-1,3-Dichloropropene | ND | 270 | ug/kg | 40 |
| trans-1,3-Dichloropropene | ND | 270 | ug/kg | 32 |
| Ethylbenzene | ND | 270 | ug/kg | 34 |
| Methylene chloride | ND | 270 | ug/kg | 59 |
| 1,1,2,2-Tetrachloroethane | ND | 270 | ug/kg | 51 |
| Tetrachloroethene | ND | 270 | ug/kg | 45 |
| Toluene | 320 B | 270 | ug/kg | 46 |
| 1,1,1-Trichloroethane | ND | 270 | ug/kg | 56 |
| 1,1,2-Trichloroethane | ND | 270 | ug/kg | 63 |
| Trichloroethene | ND | 270 | ug/kg | 44 |
| Trichlorofluoromethane | ND | 270 | ug/kg | 61 |
| Vinyl chloride | ND | 270 | ug/kg | 70 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Volatiles

Lot-Sample #....: C9F100297-001 Work Order #....: LENHE1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 110 | (72 - 127) |
| 4-Bromofluorobenzene | 104 | (63 - 120) |
| Dibromofluoromethane | 88 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F100297-002 | Work Order #....: LENHL1AU | Matrix.....: SOLID |
| Date Sampled...: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 10:26 | |
| Dilution Factor: 1.02 | Initial Wgt/Vol: 4.9 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|---------------|--------------------|--------------|-----------|
| Acrolein | ND | 6000 | ug/kg | 960 |
| Acrylonitrile | ND | 6000 | ug/kg | 490 |
| Benzene | 1700 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 56 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 95 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 65 |
| Carbon tetrachloride | ND | 300 | ug/kg | 65 |
| Chloroethane | ND | 300 | ug/kg | 45 |
| 2-Chloroethyl vinyl ether | ND | 600 | ug/kg | 67 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 56 |
| Dibromochloromethane | ND | 300 | ug/kg | 39 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 41 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 61 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 64 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 77 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 110 J | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 56 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 2000 B | 300 | ug/kg | 51 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 62 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 70 |
| Trichloroethene | ND | 300 | ug/kg | 48 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 78 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Volatiles

Lot-Sample #...: C9F100297-002 Work Order #...: LENHLL1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 74 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 98 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Volatiles

| | | |
|--------------------------------|----------------------------|------------------------|
| Lot-Sample #...: C9F100297-003 | Work Order #...: LENHN1AU | Matrix.....: SOLID |
| Date Sampled...: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #...: 9163096 | Analysis Time...: 10:03 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5.01 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|----------------|--------------------|--------------|-----------|
| Acrolein | ND | 6300 | ug/kg | 1000 |
| Acrylonitrile | ND | 6300 | ug/kg | 510 |
| Benzene | 7100 | 310 | ug/kg | 62 |
| Bromodichloromethane | ND | 310 | ug/kg | 59 |
| Bromoform | ND | 310 | ug/kg | 67 |
| Bromomethane | ND | 310 | ug/kg | 99 |
| 2-Butanone (MEK) | ND | 310 | ug/kg | 68 |
| Carbon tetrachloride | ND | 310 | ug/kg | 68 |
| Chloroethane | ND | 310 | ug/kg | 47 |
| 2-Chloroethyl vinyl ether | ND | 630 | ug/kg | 70 |
| Chloroform | ND | 310 | ug/kg | 63 |
| Chloromethane | ND | 310 | ug/kg | 58 |
| Dibromochloromethane | ND | 310 | ug/kg | 41 |
| 1,2-Dichlorobenzene | ND | 310 | ug/kg | 43 |
| 1,3-Dichlorobenzene | ND | 310 | ug/kg | 32 |
| 1,4-Dichlorobenzene | ND | 310 | ug/kg | 33 |
| trans-1,2-Dichloroethene | ND | 310 | ug/kg | 47 |
| Dichlorodifluoromethane | ND | 310 | ug/kg | 40 |
| 1,1-Dichloroethane | ND | 310 | ug/kg | 64 |
| 1,2-Dichloroethane | ND | 310 | ug/kg | 60 |
| 1,1-Dichloroethene | ND | 310 | ug/kg | 67 |
| 1,2-Dichloropropane | ND | 310 | ug/kg | 80 |
| cis-1,3-Dichloropropene | ND | 310 | ug/kg | 46 |
| trans-1,3-Dichloropropene | ND | 310 | ug/kg | 37 |
| Ethylbenzene | 540 | 310 | ug/kg | 39 |
| Methylene chloride | ND | 310 | ug/kg | 68 |
| 1,1,2,2-Tetrachloroethane | ND | 310 | ug/kg | 59 |
| Tetrachloroethene | ND | 310 | ug/kg | 52 |
| Toluene | 10000 B | 310 | ug/kg | 53 |
| 1,1,1-Trichloroethane | ND | 310 | ug/kg | 65 |
| 1,1,2-Trichloroethane | ND | 310 | ug/kg | 73 |
| Trichloroethene | ND | 310 | ug/kg | 50 |
| Trichlorofluoromethane | ND | 310 | ug/kg | 70 |
| Vinyl chloride | ND | 310 | ug/kg | 81 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Volatiles

Lot-Sample #...: C9F100297-003 Work Order #...: LENHN1AU Matrix.....: SOLID

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 76 | (52 - 124) |
| Toluene-d8 | 110 | (72 - 127) |
| 4-Bromofluorobenzene | 101 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F100297-004 | Work Order #....: LENHQ1AA | Matrix.....: WATER |
| Date Sampled...: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: 9162189 |
| Prep Date.....: 06/11/09 | Analysis Date...: 06/11/09 | |
| Prep Batch #....: 9162407 | Analysis Time...: 15:58 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5 mL | Final Wgt/Vol...: 5 mL |
| Analyst ID.....: 034635 | Instrument ID...: HP7 | |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------|-----------|-------|------|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F100297-004 Work Order #...: LENHQ1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 104 | (80 - 120) |
| 4-Bromofluorobenzene | 89 | (75 - 120) |
| Dibromofluoromethane | 93 | (80 - 120) |

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F100297

Extraction: XXA4BQK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B05-8 | 81 | 110 | 104 | 88 | 00 |
| 02 | CT-SO-B05-16 | 74 | 107 | 98 | 84 | 00 |
| 03 | CT-SO-B05-20 | 76 | 110 | 101 | 84 | 00 |
| 04 | METHOD BLK. LERMD1AA | 77 | 106 | 96 | 87 | 00 |
| 05 | LCS LERMD1AC | 77 | 109 | 102 | 90 | 00 |
| 06 | LCSD LERMD1AD | 76 | 108 | 101 | 88 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(52-124)
 (72-127)
 (63-120)
 (68-121)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F100297

Extraction: XXI15QK01

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | INTRA-LAB QC | 95 | 95 | 93 | 101 | 00 |
| 02 | TRIP BLANK | 93 | 104 | 89 | 93 | 00 |
| 03 | METHOD BLK. LEQAT1AA | 96 | 93 | 83 | 93 | 00 |
| 04 | LCS LEQAT1AC | 94 | 98 | 88 | 95 | 00 |
| 05 | LAB MS/MSD D | 92 | 97 | 87 | 93 | 00 |
| 06 | LAB MS/MSD S | 93 | 95 | 87 | 93 | 00 |

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(62-123)
 (80-120)
 (75-120)
 (80-120)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F110000

WO #: LEQAT1AC

BATCH: 9162407

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.3 | 86 | 69 - 127 | |
| Trichloroethene | 40.0 | 41.1 | 103 | 80 - 120 | |
| Benzene | 40.0 | 39.8 | 99 | 80 - 120 | |
| Toluene | 40.0 | 40.3 | 101 | 80 - 124 | |
| Chlorobenzene | 40.0 | 37.8 | 95 | 83 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120000

WO #: LERMD1AC

BATCH: 9163096

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Trichloroethene | 2000 | 1750 | 87 | 76 - 119 | |
| Benzene | 2000 | 1940 | 97 | 77 - 120 | |
| Toluene | 2000 | 2180 | 109 | 78 - 124 | |
| Chlorobenzene | 2000 | 1910 | 95 | 79 - 120 | |
| 1,1-Dichloroethene | 2000 | 2000 | 100 | 59 - 129 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F120000

WO #: LERMD1AD

BATCH: 9163096

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|----------|---------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 2000 | 2190 | 109 | 59 - 129 | |
| Trichloroethene | 2000 | 1930 | 96 | 76 - 119 | |
| Benzene | 2000 | 2150 | 108 | 77 - 120 | |
| Toluene | 2000 | 2490 | 124 | 78 - 124 | |
| Chlorobenzene | 2000 | 2150 | 107 | 79 - 120 | |

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F100295

WO #: LENGH1AC

BATCH: 9162407

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENT. (ug/L) | MS CONCENT. (ug/L) | MS % REC | LIMITS REC | QUAL |
|--------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | ND | 33.9 | 85 | 69 - 127 | |
| Trichloroethene | 40.0 | ND | 41.2 | 103 | 80 - 120 | |
| Benzene | 40.0 | ND | 40.3 | 101 | 80 - 120 | |
| Toluene | 40.0 | ND | 39.3 | 98 | 80 - 124 | |
| Chlorobenzene | 40.0 | ND | 38.2 | 96 | 83 - 120 | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C9F100295

WO #: LENGH1AD

BATCH: 9162407

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENT. (ug/L) | MSD % REC | % RPD | QC LIMITS RPD | REC | QUAL |
|--------------------|---------------------------|----------------------------|-----------------|----------|------------------|----------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,1-Dichloroethene | 40.0 | 34.3 | 86 | 1.1 | 20 | 69 - 127 | |
| Trichloroethene | 40.0 | 41.6 | 104 | 0.84 | 20 | 80 - 120 | |
| Benzene | 40.0 | 40.4 | 101 | 0.24 | 20 | 80 - 120 | |
| Toluene | 40.0 | 40.6 | 102 | 3.2 | 20 | 80 - 124 | |
| Chlorobenzene | 40.0 | 38.6 | 97 | 1.0 | 20 | 83 - 120 | |

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: ___0___ out of ___5___ outside limits
Spike Recovery: ___0___ out of ___5___ outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEQAT1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7061102.D

Lot Number: C9F100297

Date Analyzed: 06/11/09

Time Analyzed: 09:47

Matrix: WATER

Date Extracted: 06/11/09

GC Column: RTX-624 ID: .18

Extraction Method: 5030B

Instrument ID: HP7

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| 01 | INTRA-LAB QC | LENGH1AA | 70611023. | 06/11/09 | 10:12 |
| 02 | LAB MS/MSD | LENGH1AC S | 70611028. | 06/11/09 | 12:17 |
| 03 | LAB MS/MSD | LENGH1AD D | 70611029. | 06/11/09 | 12:42 |
| 04 | TRIP BLANK | LENHQ1AA | 70611036. | 06/11/09 | 15:58 |
| 05 | CHECK SAMPLE | LEQAT1AC C | 70611027. | 06/11/09 | 11:51 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F100297
MB Lot-Sample #: C9F110000-407

Work Order #...: LEQAT1AA

Matrix.....: WATER

Analysis Date...: 06/11/09
Dilution Factor: 1

Prep Date.....: 06/11/09
Prep Batch #...: 9162407
Initial Wgt/Vol: 5 mL
Analyst ID.....: 034635

Analysis Time...: 09:47
Final Wgt/Vol...: 5 mL
Instrument ID...: HP7

| PARAMETER | RESULT | REPORTING | | | METHOD |
|---------------------------|--------|-----------|-------|--|-------------|
| | | LIMIT | UNITS | | |
| Acrolein | ND | 100 | ug/L | | SW846 8260B |
| Acrylonitrile | ND | 100 | ug/L | | SW846 8260B |
| Benzene | ND | 5.0 | ug/L | | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Bromoform | ND | 5.0 | ug/L | | SW846 8260B |
| Bromomethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/L | | SW846 8260B |
| Chloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | | SW846 8260B |
| Chloroform | ND | 5.0 | ug/L | | SW846 8260B |
| Chloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/L | | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Toluene | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/L | | SW846 8260B |
| Trichlorofluoromethane | ND | 5.0 | ug/L | | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/L | | SW846 8260B |

| SURROGATE | PERCENT | RECOVERY |
|-----------------------|----------|------------|
| | RECOVERY | LIMITS |
| 1,2-Dichloroethane-d4 | 96 | (62 - 123) |
| Toluene-d8 | 93 | (80 - 120) |
| 4-Bromofluorobenzene | 83 | (75 - 120) |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F100297

Work Order #...: LEQAT1AA

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 93 | (80 - 120) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LERMD1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 4061202.D

Lot Number: C9F100297

Date Analyzed: 06/12/09

Time Analyzed: 07:44

Matrix: SOLID

Date Extracted:06/12/09

GC Column: RTX-624 ID: .18

Extraction Method: 5035

Instrument ID: HP4

Level:(low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-----------------|------------------------|----------------|------------------|------------------|
| 01 | CT-SO-B05-8 | LENHE1AU | 4061210.D | 06/12/09 | 10:49 |
| 02 | CT-SO-B05-16 | LENHL1AU | 4061209.D | 06/12/09 | 10:26 |
| 03 | CT-SO-B05-20 | LENHN1AU | 4061208.D | 06/12/09 | 10:03 |
| 04 | CHECK SAMPLE | LERMD1AC C | 4061206.D | 06/12/09 | 09:17 |
| 05 | DUPLICATE CHECK | LERMD1AD L | 4061207.D | 06/12/09 | 09:40 |
| 06 | | | | | |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F100297
MB Lot-Sample #: C9F120000-096

Work Order #...: LERMD1AA

Matrix.....: SOLID

Analysis Date...: 06/12/09
Dilution Factor: 1

Prep Date.....: 06/12/09
Prep Batch #...: 9163096
Initial Wgt/Vol: 5 g
Analyst ID.....: 010099

Analysis Time...: 07:44
Final Wgt/Vol...: 5 mL
Instrument ID...: HP4

| PARAMETER | RESULT | REPORTING | | METHOD |
|---------------------------|--------------|------------|--------------|--------------------|
| | | LIMIT | UNITS | |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 5000 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone (MEK) | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Chloromethane | ND | 250 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | 230 J | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |
| SURROGATE | PERCENT | | RECOVERY | |
| | RECOVERY | | LIMITS | |
| 1,2-Dichloroethane-d4 | 77 | | (52 - 124) | |
| Toluene-d8 | 106 | | (72 - 127) | |
| 4-Bromofluorobenzene | 96 | | (63 - 120) | |

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C9F100297

Work Order #...: LERMD1AA

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|----------------------|---------------|----------------------------------|--------------|---------------|
| Dibromofluoromethane | 87 | (68 - 121) | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F100297
 Lab File ID (Standard): 1C70611 Date Analyzed: 06/11/09
 Instrument ID: HP7 Time Analyzed: 0734
 GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 (CBZ) AREA # | RT # | IS2 (DCB) AREA # | RT # | IS3 AREA # | RT # |
|-------------------|---------------------|-------|---------------------|-------|---------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 277412 | 10.58 | 494153 | 12.91 | 1198689 | 7.51 |
| UPPER LIMIT | 554824 | 10.78 | 988306 | 13.11 | 2397378 | 7.71 |
| LOWER LIMIT | 138706 | 10.38 | 247077 | 12.71 | 599345 | 7.31 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 442803 | 10.59 | 688258 | 12.91 | 1677875 | 7.51 |
| 02 INTRA-LAB CH | 376002 | 10.59 | 583319 | 12.90 | 1419211 | 7.50 |
| 03 TRIP BLANK | 324702 | 10.59 | 481596 | 12.91 | 1339791 | 7.51 |
| 04 | | | | | | |
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| 22 | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5
 IS2 (DCB) = 1,4-Dichlorobenzene-d4
 IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: C9F100297
Lab File ID (Standard): 1C40612 Date Analyzed: 06/12/09
Instrument ID: HP4 Time Analyzed: 0544
GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 | | IS2 (CBZ) | | IS3 (DCB) | |
|-------------------|---------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 1436969 | 7.68 | 298199 | 10.76 | 488355 | 13.09 |
| UPPER LIMIT | 2873938 | 7.88 | 596398 | 10.96 | 976710 | 13.29 |
| LOWER LIMIT | 718485 | 7.48 | 149100 | 10.56 | 244178 | 12.89 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| EPA SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 1438624 | 7.68 | 294669 | 10.76 | 433860 | 13.09 |
| 02 INTRA-LAB CH | 1424897 | 7.68 | 299300 | 10.76 | 478759 | 13.09 |
| 03 INTRA-LAB CH | 1478640 | 7.68 | 305903 | 10.76 | 488733 | 13.09 |
| 04 CT-SO-B05-20 | 1434779 | 7.68 | 288146 | 10.76 | 464958 | 13.09 |
| 05 CT-SO-B05-16 | 1402745 | 7.68 | 288964 | 10.76 | 446300 | 13.09 |
| 06 CT-SO-B05-8 | 1363070 | 7.68 | 283202 | 10.76 | 452945 | 13.09 |
| 07 | | | | | | |
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| 22 | | | | | | |

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9F100297-001 | Work Order #... : LENHE1AC | Matrix..... : SOLID |
| Date Sampled... : 06/09/09 11:20 | Date Received... : 06/10/09 09:40 | MS Run #..... : 9166015 |
| Prep Date..... : 06/15/09 | Analysis Date... : 06/15/09 | |
| Prep Batch #... : 9166026 | Analysis Time... : 12:51 | |
| Dilution Factor: 7.5 | Initial Wgt/Vol: 30 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 9.9 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING | | |
|--------------------------|--------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| 1-Methylnaphthalene | 65 | 56 | ug/kg | 8.4 |
| 2-Methylnaphthalene | 140 | 56 | ug/kg | 11 |
| Naphthalene | 740 | 56 | ug/kg | 8.1 |
| Acenaphthylene | 24 J | 56 | ug/kg | 11 |
| Acenaphthene | 11 J | 56 | ug/kg | 8.9 |
| Fluorene | ND | 56 | ug/kg | 8.4 |
| Phenanthrene | 680 | 56 | ug/kg | 6.6 |
| Anthracene | 81 J | 270 | ug/kg | 9.7 |
| Fluoranthene | 1100 | 56 | ug/kg | 4.7 |
| Pyrene | 880 | 56 | ug/kg | 15 |
| Benzo (a) anthracene | 510 | 56 | ug/kg | 8.9 |
| Chrysene | 580 | 56 | ug/kg | 9.7 |
| Benzo (b) fluoranthene | 790 | 56 | ug/kg | 11 |
| Benzo (k) fluoranthene | ND | 56 | ug/kg | 12 |
| Benzo (a) pyrene | 360 | 56 | ug/kg | 16 |
| Indeno (1,2,3-cd) pyrene | 300 | 56 | ug/kg | 3.1 |
| Dibenzo (a,h) anthracene | 93 | 56 | ug/kg | 12 |
| Benzo (ghi) perylene | 320 | 56 | ug/kg | 4.1 |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Semivolatiles

| | | |
|---|--|----------------------------------|
| Lot-Sample #... : C9F100297-002 | Work Order #... : LENHL1AC | Matrix..... : SOLID |
| Date Sampled... : 06/09/09 12:15 | Date Received... : 06/10/09 09:40 | MS Run #..... : 9166015 |
| Prep Date..... : 06/15/09 | Analysis Date... : 06/15/09 | |
| Prep Batch #... : 9166026 | Analysis Time... : 13:11 | |
| Dilution Factor: 4.97 | Initial Wgt/Vol: 30.2 g | Final Wgt/Vol... : 0.5 mL |
| % Moisture..... : 16 | Analyst ID..... : 003200 | Instrument ID... : 733 |
| | Method..... : SW846 8270C | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 430 | 39 | ug/kg | 5.9 |
| 2-Methylnaphthalene | 1100 | 39 | ug/kg | 7.7 |
| Naphthalene | 7700 | 39 | ug/kg | 5.7 |
| Acenaphthylene | 660 | 39 | ug/kg | 7.8 |
| Acenaphthene | 70 | 39 | ug/kg | 6.3 |
| Fluorene | 420 | 39 | ug/kg | 5.9 |
| Phenanthrene | 450 | 39 | ug/kg | 4.7 |
| Anthracene | 88 J | 190 | ug/kg | 6.9 |
| Fluoranthene | 140 | 39 | ug/kg | 3.3 |
| Pyrene | 110 | 39 | ug/kg | 10 |
| Benzo (a) anthracene | 46 | 39 | ug/kg | 6.3 |
| Chrysene | 52 | 39 | ug/kg | 6.9 |
| Benzo (b) fluoranthene | 59 | 39 | ug/kg | 7.9 |
| Benzo (k) fluoranthene | ND | 39 | ug/kg | 8.2 |
| Benzo (a) pyrene | 32 J | 39 | ug/kg | 11 |
| Indeno (1,2,3-cd) pyrene | 9.6 J | 39 | ug/kg | 2.2 |
| Dibenzo (a,h) anthracene | ND | 39 | ug/kg | 8.6 |
| Benzo (ghi) perylene | 22 J | 39 | ug/kg | 2.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 50 | (27 - 110) |
| Terphenyl-d14 | 55 | (21 - 130) |
| 2-Fluorobiphenyl | 49 | (28 - 108) |
| 2-Fluorophenol | 45 | (28 - 107) |
| Phenol-d5 | 54 | (30 - 112) |
| 2,4,6-Tribromophenol | 14 * | (21 - 116) |

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Semivolatiles

Lot-Sample #...: C9F100297-003 Work Order #...: LENHN1AC Matrix.....: SOLID
 Date Sampled...: 06/09/09 12:30 Date Received...: 06/10/09 09:40 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #...: 9166026 Analysis Time...: 13:51
 Dilution Factor: 1000 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|------|
| 1-Methylnaphthalene | 18000 | 8400 | ug/kg | 1300 |
| 2-Methylnaphthalene | 46000 | 8400 | ug/kg | 1600 |
| Naphthalene | 570000 | 8400 | ug/kg | 1200 |
| Acenaphthylene | 56000 | 8400 | ug/kg | 1700 |
| Acenaphthene | 3100 J | 8400 | ug/kg | 1300 |
| Fluorene | 35000 | 8400 | ug/kg | 1300 |
| Phenanthrene | 100000 | 8400 | ug/kg | 1000 |
| Anthracene | 31000 J | 41000 | ug/kg | 1500 |
| Fluoranthene | 66000 | 8400 | ug/kg | 710 |
| Pyrene | 50000 | 8400 | ug/kg | 2200 |
| Benzo (a) anthracene | 25000 | 8400 | ug/kg | 1300 |
| Chrysene | 27000 | 8400 | ug/kg | 1500 |
| Benzo (b) fluoranthene | 29000 | 8400 | ug/kg | 1700 |
| Benzo (k) fluoranthene | ND | 8400 | ug/kg | 1700 |
| Benzo (a) pyrene | 20000 | 8400 | ug/kg | 2300 |
| Indeno (1,2,3-cd) pyrene | 10000 | 8400 | ug/kg | 460 |
| Dibenzo (a,h) anthracene | 2200 J | 8400 | ug/kg | 1800 |
| Benzo (ghi) perylene | 11000 | 8400 | ug/kg | 620 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC,DIL | (27 - 110) |
| Terphenyl-d14 | NC,DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC,DIL | (28 - 108) |
| 2-Fluorophenol | NC,DIL | (28 - 107) |
| Phenol-d5 | NC,DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC,DIL | (21 - 116) |

NOTE (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F100297

Extraction: XXA4F4201

| | CLIENT ID. | SRG01 | SRG02 | SRG03 | SRG04 | SRG05 | SRG06 | TOT OUT |
|----|----------------------|-------|-------|-------|-------|-------|-------|---------|
| | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B05-8 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 02 | CT-SO-B05-16 | 50 | 55 | 49 | 45 | 54 | 14 * | 01 |
| 03 | CT-SO-B05-20 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 04 | INTRA-LAB QC | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 05 | METHOD BLK. LEXDN1AA | 70 | 78 | 63 | 66 | 71 | 65 | 00 |
| 06 | LCS LEXDN1AC | 93 | 91 | 88 | 92 | 91 | 95 | 00 |
| 07 | LAB MS/MSD D | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |
| 08 | LAB MS/MSD S | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D | 06 |

SURROGATESQC LIMITS

| | | |
|-------|------------------------|-----------|
| SRG01 | = Nitrobenzene-d5 | (27-110) |
| SRG02 | = Terphenyl-d14 | (21-130) |
| SRG03 | = 2-Fluorobiphenyl | (28-108) |
| SRG04 | = 2-Fluorophenol | (28-107) |
| SRG05 | = Phenol-d5 | (30-112) |
| SRG06 | = 2,4,6-Tribromophenol | (21-116) |

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Lot #: C9F150000

WO #: LEXDN1AC

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | % REC | QC LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|----------|---------------------|------|
| Phenol | 333 | 295 | 88 | 39- 105 | |
| 2-Chlorophenol | 333 | 279 | 84 | 40- 105 | |
| 1,4-Dichlorobenzene | 333 | 276 | 83 | 41- 101 | |
| N-Nitrosodi-n-propylamine | 333 | 286 | 86 | 42- 108 | |
| 1,2,4-Trichlorobenzene | 333 | 268 | 80 | 41- 105 | |
| 4-Chloro-3-methylphenol | 333 | 270 | 81 | 43- 110 | |
| Acenaphthene | 333 | 276 | 83 | 42- 104 | |
| 4-Nitrophenol | 333 | 295 | 88 | 27- 131 | |
| 2,4-Dinitrotoluene | 333 | 294 | 88 | 48- 118 | |
| Pentachlorophenol | 333 | 284 | 85 | 18- 125 | |
| Pyrene | 333 | 278 | 83 | 39- 113 | |
| 4-Methylphenol | 667 | 553 | 83 | 43- 107 | |
| Hexachloroethane | 333 | 273 | 82 | 40- 102 | |
| Naphthalene | 333 | 274 | 82 | 42- 104 | |
| 4-Bromophenyl phenyl ethe | 333 | 277 | 83 | 43- 111 | |
| Butyl benzyl phthalate | 333 | 286 | 86 | 40- 117 | |

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9F120311

WO #: LEVER1AV

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | SAMPLE CONCENT. (ug/kg) | MS CONCENT. (ug/kg) | MS % REC | LIMITS REC | QUAL |
|---------------------------|---------------------------|-------------------------------|---------------------------|----------------|---------------|--------|
| Phenol | 333 | ND | | 0* | 39- 105 | NC DIL |
| 2-Chlorophenol | 333 | ND | | 0* | 40- 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | ND | | 0* | 41- 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | ND | | 0* | 42- 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | ND | | 0* | 41- 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | ND | | 0* | 43- 110 | NC DIL |
| Acenaphthene | 333 | 1500 | | 0* | 42- 104 | NC DIL |
| 4-Nitrophenol | 333 | ND | | 0* | 27- 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | ND | | 0* | 48- 118 | NC DIL |
| Pentachlorophenol | 333 | ND | | 0* | 18- 125 | NC DIL |
| Pyrene | 333 | ND | | 0* | 39- 113 | NC DIL |
| 4-Methylphenol | 667 | ND | | 0* | 43- 107 | NC DIL |
| Hexachloroethane | 333 | ND | | 0* | 40- 102 | NC DIL |
| Naphthalene | 333 | 530000 | | 0* | 42- 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | ND | | 0* | 43- 111 | NC DIL |
| Butyl benzyl phthalate | 333 | ND | | 0* | 40- 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc.

Client: Maryland Environmental Service

Lab Code: TALPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C9F120311

WO #: LEVER1AW

BATCH: 9166026

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENT. (ug/kg) | MSD % REC | % RPD | QC LIMITS | | QUAL |
|---------------------------|---------------------------|----------------------------|-----------------|----------|-----------|----------|--------|
| | | | | | RPD | REC | |
| Phenol | 333 | | 0* | | 40 | 39 - 105 | NC DIL |
| 2-Chlorophenol | 333 | | 0* | | 37 | 40 - 105 | NC DIL |
| 1,4-Dichlorobenzene | 333 | | 0* | | 32 | 41 - 101 | NC DIL |
| N-Nitrosodi-n-propylamine | 333 | | 0* | | 32 | 42 - 108 | NC DIL |
| 1,2,4-Trichlorobenzene | 333 | | 0* | | 36 | 41 - 105 | NC DIL |
| 4-Chloro-3-methylphenol | 333 | | 0* | | 31 | 43 - 110 | NC DIL |
| Acenaphthene | 333 | | 0* | | 34 | 42 - 104 | NC DIL |
| 4-Nitrophenol | 333 | | 0* | | 33 | 27 - 131 | NC DIL |
| 2,4-Dinitrotoluene | 333 | | 0* | | 33 | 48 - 118 | NC DIL |
| Pentachlorophenol | 333 | | 0* | | 34 | 18 - 125 | NC DIL |
| Pyrene | 333 | | 0* | | 28 | 39 - 113 | NC DIL |
| 4-Methylphenol | 667 | | 0* | | 36 | 43 - 107 | NC DIL |
| Hexachloroethane | 333 | | 0* | | 34 | 40 - 102 | NC DIL |
| Naphthalene | 333 | | 0* | | 25 | 42 - 104 | NC DIL |
| 4-Bromophenyl phenyl ethe | 333 | | 0* | | 20 | 43 - 111 | NC DIL |
| Butyl benzyl phthalate | 333 | | 0* | | 34 | 40 - 117 | NC DIL |

NOTES (S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limitsSpike Recovery: 16 out of 16 outside limits

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

LEXDN1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0615006.

Lot Number: C9F100297

Date Analyzed: 06/15/09

Time Analyzed: 10:30

Matrix: SOLID

Date Extracted:06/15/09

GC Column: DB5

ID: .32

Extraction Method:

Instrument ID: 733

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

| | CLIENT ID. | SAMPLE WORK ORDER # | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|--------------|------------------------|----------------|------------------|------------------|
| | ===== | ===== | ===== | ===== | ===== |
| 01 | CT-SO-B05-8 | LENHE1AC | N0615015. | 06/15/09 | 12:51 |
| 02 | CT-SO-B05-16 | LENHL1AC | N0615016. | 06/15/09 | 13:11 |
| 03 | CT-SO-B05-20 | LENHN1AC | N0615017. | 06/15/09 | 13:51 |
| 04 | INTRA-LAB QC | LEVER1AC | N0615009. | 06/15/09 | 11:30 |
| 05 | LAB MS/MSD | LEVER1AV S | N0615010. | 06/15/09 | 14:31 |
| 06 | LAB MS/MSD | LEVER1AW D | N0615011. | 06/15/09 | 14:50 |
| 07 | CHECK SAMPLE | LEXDN1AC C | N0615007. | 06/15/09 | 10:50 |
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COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C9F100297
MB Lot-Sample #: C9F150000-026

Work Order #...: LEXDN1AA

Matrix.....: SOLID

Analysis Date...: 06/15/09
Dilution Factor: 0.5

Prep Date.....: 06/15/09

Prep Batch #...: 9166026

Analysis Time...: 10:30

Final Wgt/Vol...: 0.5 mL

Initial Wgt/Vol: 30 g

Instrument ID...: 733

Analyst ID.....: 003200

| PARAMETER | RESULT | REPORTING | | | METHOD |
|--------------------------|--------|-----------|-------|--|-------------|
| | | LIMIT | UNITS | | |
| 2-Methylnaphthalene | ND | 3.4 | ug/kg | | SW846 8270C |
| 1-Methylnaphthalene | ND | 3.4 | ug/kg | | SW846 8270C |
| Naphthalene | ND | 3.4 | ug/kg | | SW846 8270C |
| Acenaphthylene | ND | 3.4 | ug/kg | | SW846 8270C |
| Acenaphthene | ND | 3.4 | ug/kg | | SW846 8270C |
| Fluorene | ND | 3.4 | ug/kg | | SW846 8270C |
| Phenanthrene | ND | 3.4 | ug/kg | | SW846 8270C |
| Anthracene | ND | 16 | ug/kg | | SW846 8270C |
| Fluoranthene | ND | 3.4 | ug/kg | | SW846 8270C |
| Pyrene | ND | 3.4 | ug/kg | | SW846 8270C |
| Benzo (a) anthracene | ND | 3.4 | ug/kg | | SW846 8270C |
| Chrysene | ND | 3.4 | ug/kg | | SW846 8270C |
| Benzo (b) fluoranthene | ND | 3.4 | ug/kg | | SW846 8270C |
| Benzo (k) fluoranthene | ND | 3.4 | ug/kg | | SW846 8270C |
| Benzo (a) pyrene | ND | 3.4 | ug/kg | | SW846 8270C |
| Indeno (1,2,3-cd) pyrene | ND | 3.4 | ug/kg | | SW846 8270C |
| Dibenzo (a,h) anthracene | ND | 3.4 | ug/kg | | SW846 8270C |
| Benzo (ghi) perylene | ND | 3.4 | ug/kg | | SW846 8270C |

| SURROGATE | PERCENT | RECOVERY |
|----------------------|----------|------------|
| | RECOVERY | LIMITS |
| Nitrobenzene-d5 | 70 | (27 - 110) |
| Terphenyl-d14 | 78 | (21 - 130) |
| 2-Fluorobiphenyl | 63 | (28 - 108) |
| 2-Fluorophenol | 66 | (28 - 107) |
| Phenol-d5 | 71 | (30 - 112) |
| 2,4,6-Tribromophenol | 65 | (21 - 116) |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F100297
 Lab File ID (Standard): N06150CC Date Analyzed: 06/15/09
 Instrument ID: 733 Time Analyzed: 0807

| | IS1 (DCB) | RT # | IS2 (NPT) | RT # | IS3 (ANT) | RT # |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 184765 | 4.46 | 738774 | 5.43 | 441452 | 6.78 |
| UPPER LIMIT | 369530 | 4.96 | 1477548 | 5.93 | 882904 | 7.28 |
| LOWER LIMIT | 92383 | 3.96 | 369387 | 4.93 | 220726 | 6.28 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 189585 | 4.45 | 758021 | 5.43 | 454950 | 6.77 |
| 02 INTRA-LAB CH | 183659 | 4.45 | 736202 | 5.43 | 420424 | 6.77 |
| 03 CT-SO-B05-8 | 165363 | 4.46 | 642110 | 5.42 | 406019 | 6.77 |
| 04 CT-SO-B05-16 | 174584 | 4.45 | 697392 | 5.42 | 424383 | 6.76 |
| 05 CT-SO-B05-20 | 195117 | 4.45 | 792308 | 5.42 | 469653 | 6.76 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:
 Lab Code: TA Case No.: SAS No.: SDG No.: C9F100297
 Lab File ID (Standard): N06150CC Date Analyzed: 06/15/09
 Instrument ID: 733 Time Analyzed: 0807

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|-----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 12 HOUR STD | 720303 | 7.92 | 501698 | 9.96 | 340976 | 11.30 |
| UPPER LIMIT | 1440606 | 8.42 | 1003396 | 10.46 | 681952 | 11.80 |
| LOWER LIMIT | 360152 | 7.42 | 250849 | 9.46 | 170488 | 10.80 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| CLIENT | | | | | | |
| SAMPLE NO. | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 01 INTRA-LAB BL | 742629 | 7.92 | 469976 | 9.95 | 337694 | 11.29 |
| 02 INTRA-LAB CH | 660764 | 7.92 | 466561 | 9.96 | 327307 | 11.29 |
| 03 CT-SO-B05-8 | 668649 | 7.90 | 453008 | 9.94 | 349222 | 11.27 |
| 04 CT-SO-B05-16 | 681170 | 7.90 | 453555 | 9.94 | 336817 | 11.27 |
| 05 CT-SO-B05-20 | 735006 | 7.90 | 499212 | 9.94 | 356744 | 11.27 |
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IS4 (PHN) = Phenanthrene-d10
 IS5 (CRY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

METALS SUMMARY

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9F100297-001

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 9.9

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> | <u>PREPARATION-</u> | <u>WORK</u> |
|--------------------------------------|---------------|--|----------------------|----------------------------------|
| | | <u>LIMIT</u> <u>UNITS</u> <u>METHOD</u> | <u>ANALYSIS DATE</u> | <u>ORDER #</u> |
| Prep Batch #... : 9162033 | | | | |
| Mercury | 0.034 | 0.018 mg/kg | SW846 7471A | 06/11/09 LENHE1AR |
| | | Dilution Factor: 0.5 Analysis Time...: 09:36 Analyst ID.....: 031043 | | |
| | | Instrument ID...: HGHYDRA MS Run #.....: 9162022 MDL.....: 0.0061 | | |
| Prep Batch #... : 9162268 | | | | |
| Silver | 0.18 B | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AQ |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.011 | | |
| Arsenic | 6.8 E | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AD |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.050 | | |
| Beryllium | 0.43 | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AE |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.021 | | |
| Cadmium | 2.4 | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AF |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.019 | | |
| Chromium | 1250 J | 0.56 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AG |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.017 | | |
| Copper | 64.3 E | 0.56 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AH |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.092 | | |
| Nickel | 27.3 E | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AJ |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.031 | | |
| Lead | 134 | 0.28 mg/kg | SW846 6020 | 06/11-06/14/09 LENHE1AK |
| | | Dilution Factor: 2.5 Analysis Time...: 20:25 Analyst ID.....: 400149 | | |
| | | Instrument ID...: ICPMS2 MS Run #.....: 9162129 MDL.....: 0.011 | | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9F100297-001

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Antimony | 1.4 | 0.56 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0072 | |
| Selenium | ND | 1.4 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.14 | |
| Thallium | 0.087 B | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0056 | |
| Zinc | 451 E | 1.4 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.18 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

TOTAL Metals

Lot-Sample #....: C9F100297-002

Matrix.....: SOLID

Date Sampled....: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9162033 | | | | | | |
| Mercury | ND | 0.020 | mg/kg | SW846 7471A | 06/11/09 | LENHLL1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:41 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9162022 | MDL.....: 0.0065 | |
| Prep Batch #...: 9162268 | | | | | | |
| Silver | ND | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |
| Arsenic | 4.2 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.054 | |
| Beryllium | 0.49 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.022 | |
| Cadmium | 0.47 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.021 | |
| Chromium | 1540 J | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.018 | |
| Copper | 49.1 | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.098 | |
| Nickel | 17.3 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.033 | |
| Lead | 27.3 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHLL1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.011 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

TOTAL Metals

Lot-Sample #...: C9F100297-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------------|----------------|-------------------------|--------------|------------------------|-------------------------------|-----------------|
| Antimony | 0.70 | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AL |
| | | Dilution Factor: 2.5 | | Analysis Time..: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0077 | |
| Selenium | 0.34 B | 1.5 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AM |
| | | Dilution Factor: 2.5 | | Analysis Time..: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.15 | |
| Thallium | 0.086 B | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AN |
| | | Dilution Factor: 2.5 | | Analysis Time..: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0059 | |
| Zinc | 80.5 | 1.5 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AP |
| | | Dilution Factor: 2.5 | | Analysis Time..: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID..: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.19 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

TOTAL Metals

Lot-Sample #....: C9F100297-003

Matrix.....: SOLID

Date Sampled....: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 20

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|----------------------------------|----------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| Prep Batch #....: 9162033 | | | | | | |
| Mercury | 0.034 | 0.021 | mg/kg | SW846 7471A | 06/11/09 | LENHN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:42 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9162022 | MDL.....: 0.0068 | |
| Prep Batch #....: 9162268 | | | | | | |
| Silver | 0.057 B | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |
| Arsenic | 5.8 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.057 | |
| Beryllium | 0.50 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.024 | |
| Cadmium | 1.6 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.022 | |
| Chromium | 1010 J | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.019 | |
| Copper | 51.6 | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.10 | |
| Nickel | 23.1 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.036 | |
| Lead | 71.9 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9F100297-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.87 | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0082 | |
| Selenium | 0.29 B | 1.6 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.16 | |
| Thallium | 0.092 B | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0063 | |
| Zinc | 235 | 1.6 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.20 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F100297

Matrix.....: SOLID

| | | REPORTING | | PREPARATION- | | WORK |
|---|---------|-------------------------|-------|-------------------------|----------------|-----------------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| MB Lot-Sample #: C9F110000-033 Prep Batch #...: 9162033 | | | | | | |
| Mercury | ND | 0.016 | mg/kg | SW846 7471A | 06/11/09 | LENWG1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 09:27 | | Analyst ID.....: 031043 | | Instrument ID...: HGH |
| MB Lot-Sample #: C9F110000-268 Prep Batch #...: 9162268 | | | | | | |
| Antimony | ND | 0.10 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AJ |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Arsenic | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AA |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Beryllium | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AC |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Cadmium | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AD |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Chromium | 0.016 B | 0.10 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AE |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Copper | ND | 0.10 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AF |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Lead | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AH |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Nickel | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AG |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Selenium | ND | 0.25 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AK |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9F100297

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING | | METHOD | PREPARATION- | WORK |
|-----------|--------|-------------------------|-------|-------------------------|----------------|-----------------------|
| | | LIMIT | UNITS | | ANALYSIS DATE | ORDER # |
| Silver | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AN |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Thallium | ND | 0.050 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AL |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |
| Zinc | ND | 0.25 | mg/kg | SW846 6020 | 06/11-06/14/09 | LEPFT1AM |
| | | Dilution Factor: 0.5 | | | | |
| | | Analysis Time...: 20:16 | | Analyst ID.....: 400149 | | Instrument ID...: ICP |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------------|---------------------------|-------------------------|-------------------------------|--------------|
| LCS Lot-Sample#: C9F110000-033 Prep Batch #....: 9162033 | | | | | |
| Mercury | 97 | (80 - 120) | SW846 7471A | 06/11/09 | LENWG1AC |
| | | Dilution Factor: 0.5 | Analysis Time...: 09:32 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | | |
| LCS Lot-Sample#: C9F110000-268 Prep Batch #....: 9162268 | | | | | |
| Arsenic | 91 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AP |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Beryllium | 91 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AQ |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Cadmium | 93 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AR |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Chromium | 95 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AT |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Copper | 96 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AU |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Nickel | 91 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AV |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Lead | 102 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AW |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Antimony | 92 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1AX |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |
| Selenium | 92 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1A0 |
| | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------------|--------------------------|------------|-------------------------------|-------------------------|
| Thallium | 98 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1A1 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:20 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Zinc | 87 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1A2 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:20 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |
| Silver | 94 | (80 - 120) | SW846 6020 | 06/11-06/14/09 | LEPFT1A3 |
| | | Dilution Factor: 0.5 | | Analysis Time...: 20:20 | Analyst ID.....: 400149 |
| | | Instrument ID...: ICPMS2 | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------------|--------------------|-------|------------------|--------|-------------------------------|-----------------|
|-----------|-----------------|--------------------|-------|------------------|--------|-------------------------------|-----------------|

LCS Lot-Sample#: C9F110000-033 Prep Batch #....: 9162033

| | | | | | | | |
|---------|-------|-------|-------|---------------------------|-------------------------|-------------------------|----------|
| Mercury | 0.208 | 0.202 | mg/kg | 97 | SW846 7471A | 06/11/09 | LENWG1AC |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 09:32 | Analyst ID.....: 031043 | |
| | | | | Instrument ID...: HGHYDRA | | | |

LCS Lot-Sample#: C9F110000-268 Prep Batch #....: 9162268

| | | | | | | | |
|---------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Arsenic | 2.00 | 1.83 | mg/kg | 91 | SW846 6020 | 06/11-06/14/09 | LEPFT1AP |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|-----------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Beryllium | 2.50 | 2.27 | mg/kg | 91 | SW846 6020 | 06/11-06/14/09 | LEPFT1AQ |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|---------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Cadmium | 2.50 | 2.32 | mg/kg | 93 | SW846 6020 | 06/11-06/14/09 | LEPFT1AR |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|----------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Chromium | 10.0 | 9.49 | mg/kg | 95 | SW846 6020 | 06/11-06/14/09 | LEPFT1AT |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|--------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Copper | 12.5 | 12.0 | mg/kg | 96 | SW846 6020 | 06/11-06/14/09 | LEPFT1AU |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|--------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Nickel | 25.0 | 22.7 | mg/kg | 91 | SW846 6020 | 06/11-06/14/09 | LEPFT1AV |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Lead | 1.00 | 1.02 | mg/kg | 102 | SW846 6020 | 06/11-06/14/09 | LEPFT1AW |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|----------|------|------|-------|--------------------------|-------------------------|-------------------------|----------|
| Antimony | 25.0 | 22.9 | mg/kg | 92 | SW846 6020 | 06/11-06/14/09 | LEPFT1AX |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

| | | | | | | | |
|----------|-------|-------|-------|--------------------------|-------------------------|-------------------------|----------|
| Selenium | 0.500 | 0.462 | mg/kg | 92 | SW846 6020 | 06/11-06/14/09 | LEPFT1A0 |
| | | | | Dilution Factor: 0.5 | Analysis Time...: 20:20 | Analyst ID.....: 400149 | |
| | | | | Instrument ID...: ICPMS2 | | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|------------------|------------|-------------------------------|-----------------|
| Thallium | 2.50 | 2.45 | mg/kg | 98 | SW846 6020 | 06/11-06/14/09 | LEPFT1A1 |
| Dilution Factor: 0.5 Analysis Time...: 20:20 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Zinc | 25.0 | 21.8 | mg/kg | 87 | SW846 6020 | 06/11-06/14/09 | LEPFT1A2 |
| Dilution Factor: 0.5 Analysis Time...: 20:20 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |
| Silver | 2.50 | 2.35 | mg/kg | 94 | SW846 6020 | 06/11-06/14/09 | LEPFT1A3 |
| Dilution Factor: 0.5 Analysis Time...: 20:20 Analyst ID.....: 400149 | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9F100297

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|------------------|-----------------|-----|------------|--------|----------------------------|--------------|
|-----------|------------------|-----------------|-----|------------|--------|----------------------------|--------------|

MS Lot-Sample #: C9F100297-001 Prep Batch #...: 9162033

% Moisture.....: 9.9

| | | | | | | | |
|---|----|------------|----|--------|-------------|----------|----------|
| Mercury | 97 | (75 - 125) | | | SW846 7471A | 06/11/09 | LENHE1AV |
| | 77 | (75 - 125) | 16 | (0-20) | SW846 7471A | 06/11/09 | LENHE1AW |
| Dilution Factor: 0.5 | | | | | | | |
| Analysis Time...: 09:37 Instrument ID...: HGHYDRA Analyst ID.....: 031043 | | | | | | | |
| MS Run #.....: 9162022 | | | | | | | |

MS Lot-Sample #: C9F100297-001 Prep Batch #...: 9162268

% Moisture.....: 9.9

| | | | | | | | |
|--|------|------------|----|--------|------------|----------------|----------|
| Antimony | 38 N | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CE |
| | 45 N | (75 - 125) | 17 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CF |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

| | | | | | | | |
|--|-------|------------|-----|--------|------------|----------------|----------|
| Arsenic | 0.0 N | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1AX |
| | 0.0 N | (75 - 125) | 0.0 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1A0 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

| | | | | | | | |
|--|----|------------|-----|--------|------------|----------------|----------|
| Beryllium | 79 | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1A1 |
| | 85 | (75 - 125) | 6.2 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1A2 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

| | | | | | | | |
|--|------|------------|----|--------|------------|----------------|----------|
| Cadmium | 95 | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1A3 |
| | 66 N | (75 - 125) | 17 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1A4 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

| | | | | | | | |
|--|----|------------|--|--------|------------|----------------|----------|
| Chromium | NC | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1A5 |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1A6 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

Date Sampled....: 06/09/09

Date Received...: 06/10/09

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|------------------|-----------------|-----|------------|------------|----------------------------|--------------|
| Copper | NC | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1A7 |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1A8 |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Lead | NC | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CC |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CD |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Nickel | 30 N | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1A9 |
| | 61 N,* | (75 - 125) | 22 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CA |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Selenium | 49 N | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CG |
| | 58 N | (75 - 125) | 11 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CH |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Silver | 81 | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CN |
| | 83 | (75 - 125) | 2.0 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CP |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Thallium | 85 | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CJ |
| | 89 | (75 - 125) | 4.9 | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CK |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |
| Zinc | NC | (75 - 125) | | | SW846 6020 | 06/11-06/14/09 | LENHE1CL |
| | NC | (75 - 125) | | (0-20) | SW846 6020 | 06/11-06/14/09 | LENHE1CM |
| Dilution Factor: 2.5 | | | | | | | |
| Analysis Time...: 20:33 Instrument ID...: ICPMS2 Analyst ID.....: 400149 | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

Date Sampled....: 06/09/09

Date Received...: 06/10/09

| PARAMETER | AMOUNT | SAMPLE SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: C9F100297-001 Prep Batch #....: 9162033

% Moisture.....: 9.9

Mercury

| | | | | | | | | | |
|-------|--------|-------|-------|----|----|--|-------------|----------|----------|
| 0.034 | 0.0925 | 0.124 | mg/kg | 97 | | | SW846 7471A | 06/11/09 | LENHE1AV |
| 0.034 | 0.0925 | 0.105 | mg/kg | 77 | 16 | | SW846 7471A | 06/11/09 | LENHE1AW |

Dilution Factor: 0.5

Analysis Time...: 09:37

Instrument ID...: HGHYDRA

Analyst ID.....: 031043

MS Run #.....: 9162022

MS Lot-Sample #: C9F100297-001 Prep Batch #....: 9162268

% Moisture.....: 9.9

Antimony

| | | | | | | | | | |
|-----|------|--------|-------|----|----|--|------------|----------------|----------|
| 1.4 | 27.8 | 11.9 N | mg/kg | 38 | | | SW846 6020 | 06/11-06/14/09 | LENHE1CE |
| 1.4 | 27.8 | 14.0 N | mg/kg | 45 | 17 | | SW846 6020 | 06/11-06/14/09 | LENHE1CF |

Dilution Factor: 2.5

Analysis Time...: 20:33

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9162129

Arsenic

| | | | | | | | | | |
|-----|------|--------|-------|-----|-----|--|------------|----------------|----------|
| 6.8 | 2.22 | 5.66 N | mg/kg | 0.0 | | | SW846 6020 | 06/11-06/14/09 | LENHE1AX |
| 6.8 | 2.22 | 4.93 N | mg/kg | 0.0 | 0.0 | | SW846 6020 | 06/11-06/14/09 | LENHE1AO |

Dilution Factor: 2.5

Analysis Time...: 20:33

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9162129

Beryllium

| | | | | | | | | | |
|------|------|------|-------|----|-----|--|------------|----------------|----------|
| 0.43 | 2.78 | 2.61 | mg/kg | 79 | | | SW846 6020 | 06/11-06/14/09 | LENHE1A1 |
| 0.43 | 2.78 | 2.78 | mg/kg | 85 | 6.2 | | SW846 6020 | 06/11-06/14/09 | LENHE1A2 |

Dilution Factor: 2.5

Analysis Time...: 20:33

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9162129

Cadmium

| | | | | | | | | | |
|-----|------|--------|-------|----|----|--|------------|----------------|----------|
| 2.4 | 2.78 | 5.08 | mg/kg | 95 | | | SW846 6020 | 06/11-06/14/09 | LENHE1A3 |
| 2.4 | 2.78 | 4.27 N | mg/kg | 66 | 17 | | SW846 6020 | 06/11-06/14/09 | LENHE1A4 |

Dilution Factor: 2.5

Analysis Time...: 20:33

Instrument ID...: ICPMS2

Analyst ID.....: 400149

MS Run #.....: 9162129

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: C9F100297

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

| | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | WORK |
|-----------|--------|-------|-------------------------|-------|--------|--------------------------|------------|-------------------------|----------|
| PARAMETER | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS DATE | ORDER # |
| Chromium | | | | | | | | | |
| | 1250 | 11.1 | 1470 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1A5 |
| | 1250 | 11.1 | 1310 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1A6 |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |
| Copper | | | | | | | | | |
| | 64.3 | 13.9 | 57.8 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1A7 |
| | 64.3 | 13.9 | 52.9 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1A8 |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |
| Lead | | | | | | | | | |
| | 134 | 1.11 | 142 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1CC |
| | 134 | 1.11 | 102 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1CD |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |
| Nickel | | | | | | | | | |
| | 27.3 | 27.8 | 35.6 N | mg/kg | 30 | | SW846 6020 | 06/11-06/14/09 | LENHE1A9 |
| | 27.3 | 27.8 | 44.3 | mg/kg | 61 | 22 | SW846 6020 | 06/11-06/14/09 | LENHE1CA |
| | | | Qualifiers: N,* | | | | | | |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |
| Selenium | | | | | | | | | |
| | ND | 0.555 | 0.406 N | mg/kg | 49 | | SW846 6020 | 06/11-06/14/09 | LENHE1CG |
| | ND | 0.555 | 0.452 N | mg/kg | 58 | 11 | SW846 6020 | 06/11-06/14/09 | LENHE1CH |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |
| Silver | | | | | | | | | |
| | 0.18 | 2.78 | 2.43 | mg/kg | 81 | | SW846 6020 | 06/11-06/14/09 | LENHE1CN |
| | 0.18 | 2.78 | 2.48 | mg/kg | 83 | 2.0 | SW846 6020 | 06/11-06/14/09 | LENHE1CP |
| | | | Dilution Factor: 2.5 | | | | | | |
| | | | Analysis Time...: 20:33 | | | Instrument ID...: ICPMS2 | | Analyst ID.....: 400149 | |
| | | | MS Run #.....: 9162129 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: C9F100297

Matrix.....: SOLID

Date Sampled....: 06/09/09

Date Received...: 06/10/09

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------------|-----------|---------------|-------|---------------|-----|------------|----------------------------|--------------|
| Thallium | | | | | | | | | |
| | 0.087 | 2.78 | 2.45 | mg/kg | 85 | | SW846 6020 | 06/11-06/14/09 | LENHE1CJ |
| | 0.087 | 2.78 | 2.57 | mg/kg | 89 | 4.9 | SW846 6020 | 06/11-06/14/09 | LENHE1CK |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 20:33 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | | | |
| Zinc | | | | | | | | | |
| | 451 | 27.8 | 484 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1CL |
| | 451 | 27.8 | 349 NC | mg/kg | | | SW846 6020 | 06/11-06/14/09 | LENHE1CM |
| Dilution Factor: 2.5 | | | | | | | | | |
| Analysis Time...: 20:33 | | | | | | | | | |
| Instrument ID...: ICPMS2 | | | | | | | | | |
| Analyst ID.....: 400149 | | | | | | | | | |
| MS Run #.....: 9162129 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

NC The recovery and/or RPD were not calculated.

* Relative percent difference (RPD) is outside stated control limits.

GENERAL CHEMISTRY SUMMARY

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F100297

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B05-8 | C9F100297 001 | LENHE1AT | 0.69 | mg/kg | 0.095 | 0.56 | 1 | 6/11/2009 - 6/12/2009 10:59 | 9162444 |
| CT-SO-B05-16 | C9F100297 002 | LENHL1AT | 4.7 | mg/kg | 0.10 | 0.59 | 1 | 6/11/2009 - 6/12/2009 11:02 | 9162444 |
| CT-SO-B05-20 | C9F100297 003 | LENHN1AT | 6.7 | mg/kg | 0.11 | 0.63 | 1 | 6/11/2009 - 6/12/2009 11:03 | 9162444 |

MES Sparrows Point 18001868

Percent Solids

Lab Name: TESTAMERICA PITTSBURGH

Method: SM20 2540G

Client Name: Maryland Environmental Service

Lot Number: C9F100297

Matrix: SOLID

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B05-8 | C9F100297 001 | LENHE1AA | 90.1 | % | 0.0 | 1.0 | 1 | 6/11/2009 - 6/12/2009 08:22 | 9162077 |
| CT-SO-B05-16 | C9F100297 002 | LENHL1AA | 84.4 | % | 0.0 | 1.0 | 1 | 6/11/2009 - 6/12/2009 08:22 | 9162077 |
| CT-SO-B05-20 | C9F100297 003 | LENHN1AA | 79.6 | % | 0.0 | 1.0 | 1 | 6/11/2009 - 6/12/2009 08:22 | 9162077 |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Report ID: C9F100297

Matrix: SOLID

Date/Time Received: 6/10/2009 9:40:00AM

| Client Sample ID | Sample Number | Workorder | Result | Units | Reporting Limit | Prep Date-Analysis Date/Time | QC Batch | RPD / Limit (%) |
|---------------------|---------------|-----------|--------|-------|-----------------|--------------------------------|----------|-----------------|
| BLK - C9F110000444B | 444 MB | LEQKJ1AA | ND | mg/kg | 0.50 | 6/11/2009 - 6/12/2009 10:02 | 9162444 | |

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH
 Client Name: Maryland Environmental Service
 Matrix: SOLID

Method: SW846 9012A
 Lot Number: C9F110000
 Date/Time Received: 6/10/2009 9:40:00AM

| Client Sample ID | QC Sample Type | Workorder | Recovery (%) | Control Limits (%) | Prep Date - Analysis Date/Time | QC Batch | RPD / Limit (%) |
|------------------|----------------|-----------|----------------|----------------------|--------------------------------|----------|-----------------|
| CHECK SAMPLE | LCS | LEQKJ1AC | 87 | 38 - 162 | 6/11/2009 - 6/12/2009 10:02 | 9162444 | |
| LAB MS/MSD | MS | LECLM1AU | 98 | 85 - 115 | 6/11/2009 - 6/12/2009 10:59 | 9162444 | 1.2 / 20 |
| CT-SO-B05-8 | MS | LENHE1CQ | 88 | 85 - 115 | 6/11/2009 - 6/12/2009 10:59 | 9162444 | 7.8 / 20 |
| LAB MS/MSD | MSD | LECLM1AV | 95 | 85 - 115 | 6/11/2009 - 6/12/2009 10:59 | 9162444 | 1.2 / 20 |
| CT-SO-B05-8 | MSD | LENHE1CR | 81 N | 85 - 115 | 6/11/2009 - 6/12/2009 10:59 | 9162444 | 7.8 / 20 |

CYANIDE
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F100297

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B05-8 | C9F100297-001 | Soil |
| 1MS | CT-SO-B05-8MS | C9F100297-001MS | Soil |
| 1MSD | CT-SO-B05-8MSD | C9F100297-001MSD | Soil |
| 2 | CT-SO-B05-16 | C9F100297-002 | Soil |
| 3 | CT-SO-B05-20 | C9F100297-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within the recommended holding times for all of the above wet chemistry parameters.

Calibration - The ICV and CCV %R values were acceptable.

Method and Calibration Blanks - The method blanks and continuing calibration blanks were free of contamination.

Field and Equipment Blank - Field QC samples were not included in this data package.

Matrix Spike/Duplicate - The matrix spike/duplicate samples exhibited acceptable %R and RPD values except the following:

| MS Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|--------------|----------|---------------|-----------|------------------|
| 1 | Cyanide | Ok/81%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified.

MES Sparrows Point 18001868

Cyanide, Total

Lab Name: TESTAMERICA PITTSBURGH

Method: SW846 9012A

Client Name: Maryland Environmental Service

Lot Number: C9F100297

Matrix: SOLID

Distillation procedure

| Client Sample ID | Sample Number | Workorder | Result | Units | Min. Detection Limit | Reporting Limit | Dilution Factor | Prep Date - Analysis Date/Time | QC Batch |
|------------------|---------------|-----------|--------|-------|----------------------|-----------------|-----------------|--------------------------------|----------|
| CT-SO-B05-8 | C9F100297 001 | LENHE1AT | L 0.69 | mg/kg | 0.095 | 0.56 | 1 | 6/11/2009 - 6/12/2009 10:59 | 9162444 |
| CT-SO-B05-16 | C9F100297 002 | LENHL1AT | L 4.7 | mg/kg | 0.10 | 0.59 | 1 | 6/11/2009 - 6/12/2009 11:02 | 9162444 |
| CT-SO-B05-20 | C9F100297 003 | LENHN1AT | L 6.7 | mg/kg | 0.11 | 0.63 | 1 | 6/11/2009 - 6/12/2009 11:03 | 9162444 |

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8/10/09

METALS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F100297

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B05-8 | C9F100297-001 | Soil |
| 1MS | CT-SO-B05-8MS | C9F100297-001MS | Soil |
| 1MSD | CT-SO-B05-8MSD | C9F100297-001MSD | Soil |
| 2 | CT-SO-B05-16 | C9F100297-002 | Soil |
| 3 | CT-SO-B05-20 | C9F100297-003 | Soil |

The USEPA "Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", April 1993, was used in evaluating the data in this summary report.

Holding Times - All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Calibration - The ICV and CCV %R values were acceptable.

CRDL Standard - The CRDL standards exhibited acceptable %R values.

Method and Calibration Blanks - The method blanks and continuing calibration blanks exhibited contamination for several compounds, however, all sample results are non-detect or greater than 5X the blank concentration.

Field and Equipment Blank - Field QC samples were not included in this data package.

ICP Interference Check Sample - All %R values were acceptable.

Matrix Spike/Duplicate - The MS/MSD sample exhibited acceptable %R and RPD values except the following.

| MS/MSD Sample ID | Compound | MS/MSD %R/RPD | Qualifier | Affected Samples |
|------------------|----------|---------------|-----------|-----------------------------|
| 1 | Antimony | 38%/45%/Ok | L/UL | All samples |
| | Arsenic | 0%/0%/Ok | None | Already qualified due to SD |
| | Cadmium | Ok/66%/Ok | L/UL | All samples |
| | Nickel | Ok/61%/Ok | None | Already qualified due to SD |
| | Selenium | 49%/58%/Ok | L/UL | All samples |

LCS - The LCS samples exhibited acceptable %R values.

ICP Serial Dilution - The ICP serial dilution sample exhibited acceptable %D values except the following:

| ICP Sample ID | Compound | %D | Qualifier | Affected Samples |
|---------------|----------|-------|-----------|------------------|
| 1 | Arsenic | 16.0% | J | All samples |
| | Copper | 15.2% | J | All samples |
| | Nickel | 13.4% | J | All samples |
| | Zinc | 15.3% | J | All samples |

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. The reviewer removed the (J) flags as necessary from all compounds which exhibited potential blank contamination.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9F100297-001

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 9.9

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|----------------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9162033 | | | | | | |
| Mercury | 0.034 | 0.018 | mg/kg | SW846 7471A | 06/11/09 | LENHE1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:36 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9162022 | MDL.....: 0.0061 | |
| Prep Batch #...: 9162268 | | | | | | |
| Silver | 0.18 <i>BJ</i> | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.011 | |
| Arsenic | 6.8 <i>BJ</i> | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.050 | |
| Beryllium | 0.43 | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.021 | |
| Cadmium | 2.4 <i>L</i> | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.019 | |
| Chromium | 1250 <i>J</i> | 0.56 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.017 | |
| Copper | 64.3 <i>BJ</i> | 0.56 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.092 | |
| Nickel | 27.3 <i>BJ</i> | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.031 | |
| Lead | 134 | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.011 | |

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8/10/09

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

TOTAL Metals

Lot-Sample #...: C9F100297-001

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 1.4 L | 0.56 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0072 | |
| Selenium | ND UL | 1.4 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.14 | |
| Thallium | 0.087 J | 0.28 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0056 | |
| Zinc | 451 J | 1.4 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHE1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:25 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.18 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

E Matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Maryland Environmental Service

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Client Sample ID: CT-SO-B05-16

TOTAL Metals

Lot-Sample #...: C9F100297-002

Matrix.....: SOLID

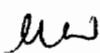
Date Sampled...: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|--------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9162033 | | | | | | |
| Mercury | ND | 0.020 | mg/kg | SW846 7471A | 06/11/09 | LENHL1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:41 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9162022 | MDL.....: 0.0065 | |
| Prep Batch #...: 9162268 | | | | | | |
| Silver | ND | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |
| Arsenic | 4.2 J | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.054 | |
| Beryllium | 0.49 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.022 | |
| Cadmium | 0.47 L | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.021 | |
| Chromium | 1540 J | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.018 | |
| Copper | 49.1 J | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.098 | |
| Nickel | 17.3 J | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.033 | |
| Lead | 27.3 | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.011 | |

(Continued on next page)


 8/12/09
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Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

TOTAL Metals

Lot-Sample #...: C9F100297-002

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|-----------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.70 L | 0.59 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0077 | |
| Selenium | 0.34 B L | 1.5 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.15 | |
| Thallium | 0.086 B J | 0.30 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0059 | |
| Zinc | 80.5 J | 1.5 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHL1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 20:56 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.19 | |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9F100297-003

Matrix.....: SOLID

Date Sampled...: 06/09/09

Date Received...: 06/10/09

% Moisture.....: 20

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------------|---------|---------------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 9162033 | | | | | | |
| Mercury | 0.034 | 0.021 | mg/kg | SW846 7471A | 06/11/09 | LENHN1AR |
| | | Dilution Factor: 0.5 | | Analysis Time...: 09:42 | Analyst ID.....: 031043 | |
| | | Instrument ID...: HGHYDRA | | MS Run #.....: 9162022 | MDL.....: 0.0068 | |
| Prep Batch #...: 9162268 | | | | | | |
| Silver | 0.057 J | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AQ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |
| Arsenic | 5.8 J | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AD |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.057 | |
| Beryllium | 0.50 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AE |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.024 | |
| Cadmium | 1.6 L | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AF |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.022 | |
| Chromium | 1010 J | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AG |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.019 | |
| Copper | 51.6 J | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AH |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.10 | |
| Nickel | 23.1 J | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AJ |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.036 | |
| Lead | 71.9 | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AK |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.012 | |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

TOTAL Metals

Lot-Sample #...: C9F100297-003

Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|----------------|--------------------------|-------|-------------------------|-------------------------------|-----------------|
| Antimony | 0.87 <i>L</i> | 0.63 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AL |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0082 | |
| Selenium | 0.29 <i>FL</i> | 1.6 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AM |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.16 | |
| Thallium | 0.092 <i>J</i> | 0.31 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AN |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.0063 | |
| Zinc | 235 <i>J</i> | 1.6 | mg/kg | SW846 6020 | 06/11-06/14/09 | LENHN1AP |
| | | Dilution Factor: 2.5 | | Analysis Time...: 21:00 | Analyst ID.....: 400149 | |
| | | Instrument ID...: ICPMS2 | | MS Run #.....: 9162129 | MDL.....: 0.20 | |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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POLYNUCLEAR AROMATIC HYDRCARBONS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F100297

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B05-8 | C9F100297-001 | Soil |
| 2 | CT-SO-B05-16 | C9F100297-002 | Soil |
| 3 | CT-SO-B05-20 | C9F100297-003 | Soil |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

GC/MS Tuning - All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values.

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values.

Surrogates - Many surrogate recoveries were not calculated because they were diluted out. No qualifiers were required.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks were free of contamination.

Field, Equipment Blank - Field QC samples were not included in this data package.

Field Duplicates - Field duplicate samples were not included in this data package.

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Semivolatiles

Lot-Sample #....: C9F100297-001 Work Order #....: LENHE1AC Matrix.....: SOLID
 Date Sampled....: 06/09/09 11:20 Date Received...: 06/10/09 09:40 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 12:51
 Dilution Factor: 7.5 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 9.9 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 65 | 56 | ug/kg | 8.4 |
| 2-Methylnaphthalene | 140 | 56 | ug/kg | 11 |
| Naphthalene | 740 | 56 | ug/kg | 8.1 |
| Acenaphthylene | 24 J | 56 | ug/kg | 11 |
| Acenaphthene | 11 J | 56 | ug/kg | 8.9 |
| Fluorene | ND | 56 | ug/kg | 8.4 |
| Phenanthrene | 680 | 56 | ug/kg | 6.6 |
| Anthracene | 81 J | 270 | ug/kg | 9.7 |
| Fluoranthene | 1100 | 56 | ug/kg | 4.7 |
| Pyrene | 880 | 56 | ug/kg | 15 |
| Benzo (a) anthracene | 510 | 56 | ug/kg | 8.9 |
| Chrysene | 580 | 56 | ug/kg | 9.7 |
| Benzo (b) fluoranthene | 790 | 56 | ug/kg | 11 |
| Benzo (k) fluoranthene | ND | 56 | ug/kg | 12 |
| Benzo (a) pyrene | 360 | 56 | ug/kg | 16 |
| Indeno (1,2,3-cd) pyrene | 300 | 56 | ug/kg | 3.1 |
| Dibenzo (a,h) anthracene | 93 | 56 | ug/kg | 12 |
| Benzo (ghi) perylene | 320 | 56 | ug/kg | 4.1 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Semivolatiles

Lot-Sample #....: C9F100297-002 Work Order #....: LENHL1AC Matrix.....: SOLID
 Date Sampled....: 06/09/09 12:15 Date Received...: 06/10/09 09:40 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #....: 9166026 Analysis Time...: 13:11
 Dilution Factor: 4.97 Initial Wgt/Vol: 30.2 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 16 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|--------|--------------------|-------|-----|
| 1-Methylnaphthalene | 430 | 39 | ug/kg | 5.9 |
| 2-Methylnaphthalene | 1100 | 39 | ug/kg | 7.7 |
| Naphthalene | 7700 | 39 | ug/kg | 5.7 |
| Acenaphthylene | 660 | 39 | ug/kg | 7.8 |
| Acenaphthene | 70 | 39 | ug/kg | 6.3 |
| Fluorene | 420 | 39 | ug/kg | 5.9 |
| Phenanthrene | 450 | 39 | ug/kg | 4.7 |
| Anthracene | 88 J | 190 | ug/kg | 6.9 |
| Fluoranthene | 140 | 39 | ug/kg | 3.3 |
| Pyrene | 110 | 39 | ug/kg | 10 |
| Benzo (a) anthracene | 46 | 39 | ug/kg | 6.3 |
| Chrysene | 52 | 39 | ug/kg | 6.9 |
| Benzo (b) fluoranthene | 59 | 39 | ug/kg | 7.9 |
| Benzo (k) fluoranthene | ND | 39 | ug/kg | 8.2 |
| Benzo (a) pyrene | 32 J | 39 | ug/kg | 11 |
| Indeno (1,2,3-cd) pyrene | 9.6 J | 39 | ug/kg | 2.2 |
| Dibenzo (a,h) anthracene | ND | 39 | ug/kg | 8.6 |
| Benzo (ghi) perylene | 22 J | 39 | ug/kg | 2.9 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | 50 | (27 - 110) |
| Terphenyl-d14 | 55 | (21 - 130) |
| 2-Fluorobiphenyl | 49 | (28 - 108) |
| 2-Fluorophenol | 45 | (28 - 107) |
| Phenol-d5 | 54 | (30 - 112) |
| 2,4,6-Tribromophenol | 14 * | (21 - 116) |

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

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Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Semivolatiles

Lot-Sample #...: C9F100297-003 Work Order #...: LENHN1AC Matrix.....: SOLID
 Date Sampled...: 06/09/09 12:30 Date Received...: 06/10/09 09:40 MS Run #.....: 9166015
 Prep Date.....: 06/15/09 Analysis Date...: 06/15/09
 Prep Batch #...: 9166026 Analysis Time...: 13:51
 Dilution Factor: 1000 Initial Wgt/Vol: 30 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 20 Analyst ID.....: 003200 Instrument ID...: 733
 Method.....: SW846 8270C

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|--------------------------|---------|--------------------|-------|------|
| 1-Methylnaphthalene | 18000 | 8400 | ug/kg | 1300 |
| 2-Methylnaphthalene | 46000 | 8400 | ug/kg | 1600 |
| Naphthalene | 570000 | 8400 | ug/kg | 1200 |
| Acenaphthylene | 56000 | 8400 | ug/kg | 1700 |
| Acenaphthene | 3100 J | 8400 | ug/kg | 1300 |
| Fluorene | 35000 | 8400 | ug/kg | 1300 |
| Phenanthrene | 100000 | 8400 | ug/kg | 1000 |
| Anthracene | 31000 J | 41000 | ug/kg | 1500 |
| Fluoranthene | 66000 | 8400 | ug/kg | 710 |
| Pyrene | 50000 | 8400 | ug/kg | 2200 |
| Benzo (a) anthracene | 25000 | 8400 | ug/kg | 1300 |
| Chrysene | 27000 | 8400 | ug/kg | 1500 |
| Benzo (b) fluoranthene | 29000 | 8400 | ug/kg | 1700 |
| Benzo (k) fluoranthene | ND | 8400 | ug/kg | 1700 |
| Benzo (a) pyrene | 20000 | 8400 | ug/kg | 2300 |
| Indeno (1,2,3-cd) pyrene | 10000 | 8400 | ug/kg | 460 |
| Dibenzo (a,h) anthracene | 2200 J | 8400 | ug/kg | 1800 |
| Benzo (ghi) perylene | 11000 | 8400 | ug/kg | 620 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|----------------------|---------------------|--------------------|
| Nitrobenzene-d5 | NC, DIL | (27 - 110) |
| Terphenyl-d14 | NC, DIL | (21 - 130) |
| 2-Fluorobiphenyl | NC, DIL | (28 - 108) |
| 2-Fluorophenol | NC, DIL | (28 - 107) |
| Phenol-d5 | NC, DIL | (30 - 112) |
| 2,4,6-Tribromophenol | NC, DIL | (21 - 116) |

NOTE(S) :

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

[Signature]
 8/12/09

VOLATILE ORGANIC COMPOUNDS
USEPA Region III - Level IV Review

Site: Sparrows Point SDG #: C9F100297

Client: Maryland Environmental Service, Millersville, MD Date: August 12, 2009

Laboratory: Test America, Inc., Pittsburgh, PA Reviewer: Nancy Weaver

| EDS ID | Client Sample ID | Laboratory Sample ID | Matrix |
|--------|------------------|----------------------|--------|
| 1 | CT-SO-B05-8 | C9F100297-001 | Soil |
| 2 | CT-SO-B05-16 | C9F100297-002 | Soil |
| 3 | CT-SO-B05-20 | C9F100297-003 | Soil |
| 4 | TRIP BLANK | C9F100297-004 | Water |

The USEPA "Region III Modifications to the National Functional Guidelines for Organic Data Review", September 1994, was used in evaluating the data in this summary report.

Holding Times - All samples were analyzed within 14 days for preserved water and soil samples.

GC/MS Tuning - All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria.

Initial Calibration - The initial calibrations exhibited acceptable %RSD and mean RRF values except the following.

| ICAL Date | Compound | %RSD/RRF | Qualifier | Affected Samples |
|-----------|----------|-----------|-----------|------------------|
| 05/20/09 | Acrolein | 0.039 RRF | L/R | 1-3 |
| 05/26/09 | Acrolein | 0.022 RRF | L/R | 4 |

Continuing Calibration - The continuing calibrations exhibited acceptable %D and RRF values except the following.

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|-------------------------|-----------|-----------|-------------------------------|
| 06/11/09 | Dichlorodifluoromethane | 27.6% | None | All ND |
| | Chloroethane | 44.9% | None | All ND |
| | Acrolein | 0.022 RRF | None | Already qualified due to ICAL |
| | Acrylonitrile | 26.4% | None | All ND |
| 06/12/09 | 2-Butanone | 27.6% | None | All ND |

| CCAL Date | Compound | %D/RRF | Qualifier | Affected Samples |
|-----------|---------------------------|-----------------|-----------|-------------------------------|
| 06/12/09 | Bromoform | 37.5% | None | All ND |
| | 1,1,2,2-Tetrachloroethane | 35.0% | None | All ND |
| | Acrolein | 44.3%/0.022 RRF | None | Already qualified due to ICAL |
| | 2-Chloroethyl vinyl ether | 35.3% | None | All ND |

Surrogates - All samples exhibited acceptable surrogate recoveries.

MS/MSD - A MS/MSD sample was not analyzed.

Laboratory Control Sample - The LCS samples exhibited acceptable %R values.

Internal Standard (IS) Area Performance - All internal standards met response and retention time (RT) criteria.

Method Blank - The method blanks exhibited the following contamination.

| Blank ID | Compound | Conc. ug/kg | Action Level ug/kg | Qualifier | Affected Samples |
|----------|----------|----------------|-----------------------|-----------|------------------|
| MBLK | Toluene | 230 | 2300 | B | 1, 2 |

Trip, Field, Equipment Blank - Field QC results are summarized below.

| Blank ID | Compound | Conc. ug/L | Action Level ug/L | Qualifier | Affected Samples |
|------------|-----------|---------------|----------------------|-----------|------------------|
| TRIP BLANK | None - ND | - | - | - | - |

Field Duplicates - Field duplicate samples were not included in this data package.

Tentatively Identified Compounds (TICs) - TICs were not reported

Compound Quantitation - No discrepancies were identified.

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Volatiles

Lot-Sample #....: C9F100297-001 Work Order #....: LENHE1AU Matrix.....: SOLID
Date Sampled....: 06/09/09 Date Received...: 06/10/09 MS Run #.....:
Prep Date.....: 06/12/09 Analysis Date...: 06/12/09
Prep Batch #....: 9163096 Analysis Time...: 10:49
Dilution Factor: 0.98 Initial Wgt/Vol: 5.12 g Final Wgt/Vol...: 5 mL
% Moisture.....: 9.9 Analyst ID.....: 010099 Instrument ID...: HP4
Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING | | |
|---------------------------|--------------|-----------|-------|-----|
| | | LIMIT | UNITS | MDL |
| Acrolein | ND <i>R</i> | 5400 | ug/kg | 860 |
| Acrylonitrile | ND | 5400 | ug/kg | 440 |
| Benzene | 120 <i>J</i> | 270 | ug/kg | 54 |
| Bromodichloromethane | ND | 270 | ug/kg | 51 |
| Bromoform | ND | 270 | ug/kg | 58 |
| Bromomethane | ND | 270 | ug/kg | 86 |
| 2-Butanone (MEK) | ND | 270 | ug/kg | 59 |
| Carbon tetrachloride | ND | 270 | ug/kg | 59 |
| Chloroethane | ND | 270 | ug/kg | 41 |
| 2-Chloroethyl vinyl ether | ND | 540 | ug/kg | 60 |
| Chloroform | ND | 270 | ug/kg | 55 |
| Chloromethane | ND | 270 | ug/kg | 50 |
| Dibromochloromethane | ND | 270 | ug/kg | 35 |
| 1,2-Dichlorobenzene | ND | 270 | ug/kg | 37 |
| 1,3-Dichlorobenzene | ND | 270 | ug/kg | 28 |
| 1,4-Dichlorobenzene | ND | 270 | ug/kg | 29 |
| trans-1,2-Dichloroethene | ND | 270 | ug/kg | 41 |
| Dichlorodifluoromethane | ND | 270 | ug/kg | 35 |
| 1,1-Dichloroethane | ND | 270 | ug/kg | 55 |
| 1,2-Dichloroethane | ND | 270 | ug/kg | 52 |
| 1,1-Dichloroethene | ND | 270 | ug/kg | 58 |
| 1,2-Dichloropropane | ND | 270 | ug/kg | 69 |
| cis-1,3-Dichloropropene | ND | 270 | ug/kg | 40 |
| trans-1,3-Dichloropropene | ND | 270 | ug/kg | 32 |
| Ethylbenzene | ND | 270 | ug/kg | 34 |
| Methylene chloride | ND | 270 | ug/kg | 59 |
| 1,1,2,2-Tetrachloroethane | ND | 270 | ug/kg | 51 |
| Tetrachloroethene | ND | 270 | ug/kg | 45 |
| Toluene | 320 <i>B</i> | 270 | ug/kg | 46 |
| 1,1,1-Trichloroethane | ND | 270 | ug/kg | 56 |
| 1,1,2-Trichloroethane | ND | 270 | ug/kg | 63 |
| Trichloroethene | ND | 270 | ug/kg | 44 |
| Trichlorofluoromethane | ND | 270 | ug/kg | 61 |
| Vinyl chloride | ND | 270 | ug/kg | 70 |

(Continued on next page)

Maryland Environmental Service

Client Sample ID: CT-SO-B05-8

GC/MS Volatiles

Lot-Sample #...: C9F100297-001 Work Order #...: LENHE1AU

Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 81 | (52 - 124) |
| Toluene-d8 | 110 | (72 - 127) |
| 4-Bromofluorobenzene | 104 | (63 - 120) |
| Dibromofluoromethane | 88 | (68 - 121) |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

luw
8/12/09

Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F100297-002 | Work Order #....: LENHL1AU | Matrix.....: SOLID |
| Date Sampled....: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 10:26 | |
| Dilution Factor: 1.02 | Initial Wgt/Vol: 4.9 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 16 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------|--------------------|-------|-----|
| Acrolein | ND R | 6000 | ug/kg | 960 |
| Acrylonitrile | ND | 6000 | ug/kg | 490 |
| Benzene | 1700 | 300 | ug/kg | 60 |
| Bromodichloromethane | ND | 300 | ug/kg | 56 |
| Bromoform | ND | 300 | ug/kg | 65 |
| Bromomethane | ND | 300 | ug/kg | 95 |
| 2-Butanone (MEK) | ND | 300 | ug/kg | 65 |
| Carbon tetrachloride | ND | 300 | ug/kg | 65 |
| Chloroethane | ND | 300 | ug/kg | 45 |
| 2-Chloroethyl vinyl ether | ND | 600 | ug/kg | 67 |
| Chloroform | ND | 300 | ug/kg | 61 |
| Chloromethane | ND | 300 | ug/kg | 56 |
| Dibromochloromethane | ND | 300 | ug/kg | 39 |
| 1,2-Dichlorobenzene | ND | 300 | ug/kg | 41 |
| 1,3-Dichlorobenzene | ND | 300 | ug/kg | 31 |
| 1,4-Dichlorobenzene | ND | 300 | ug/kg | 32 |
| trans-1,2-Dichloroethene | ND | 300 | ug/kg | 45 |
| Dichlorodifluoromethane | ND | 300 | ug/kg | 38 |
| 1,1-Dichloroethane | ND | 300 | ug/kg | 61 |
| 1,2-Dichloroethane | ND | 300 | ug/kg | 58 |
| 1,1-Dichloroethene | ND | 300 | ug/kg | 64 |
| 1,2-Dichloropropane | ND | 300 | ug/kg | 77 |
| cis-1,3-Dichloropropene | ND | 300 | ug/kg | 44 |
| trans-1,3-Dichloropropene | ND | 300 | ug/kg | 35 |
| Ethylbenzene | 110 J | 300 | ug/kg | 37 |
| Methylene chloride | ND | 300 | ug/kg | 66 |
| 1,1,2,2-Tetrachloroethane | ND | 300 | ug/kg | 56 |
| Tetrachloroethene | ND | 300 | ug/kg | 50 |
| Toluene | 2000 B | 300 | ug/kg | 51 |
| 1,1,1-Trichloroethane | ND | 300 | ug/kg | 62 |
| 1,1,2-Trichloroethane | ND | 300 | ug/kg | 70 |
| Trichloroethene | ND | 300 | ug/kg | 48 |
| Trichlorofluoromethane | ND | 300 | ug/kg | 68 |
| Vinyl chloride | ND | 300 | ug/kg | 78 |

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W
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Maryland Environmental Service

Client Sample ID: CT-SO-B05-16

GC/MS Volatiles

Lot-Sample #....: C9F100297-002 Work Order #....: LENHL1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 74 | (52 - 124) |
| Toluene-d8 | 107 | (72 - 127) |
| 4-Bromofluorobenzene | 98 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

lws
8/12/09

3

Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Volatiles

| | | |
|---------------------------------|----------------------------|------------------------|
| Lot-Sample #....: C9F100297-003 | Work Order #....: LENHN1AU | Matrix.....: SOLID |
| Date Sampled...: 06/09/09 | Date Received...: 06/10/09 | MS Run #.....: |
| Prep Date.....: 06/12/09 | Analysis Date...: 06/12/09 | |
| Prep Batch #....: 9163096 | Analysis Time...: 10:03 | |
| Dilution Factor: 1 | Initial Wgt/Vol: 5.01 g | Final Wgt/Vol...: 5 mL |
| % Moisture.....: 20 | Analyst ID.....: 010099 | Instrument ID...: HP4 |
| | Method.....: SW846 8260B | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|--------------------|--------------------|-------|------|
| Acrolein | ND R | 6300 | ug/kg | 1000 |
| Acrylonitrile | ND | 6300 | ug/kg | 510 |
| Benzene | 7100 | 310 | ug/kg | 62 |
| Bromodichloromethane | ND | 310 | ug/kg | 59 |
| Bromoform | ND | 310 | ug/kg | 67 |
| Bromomethane | ND | 310 | ug/kg | 99 |
| 2-Butanone (MEK) | ND | 310 | ug/kg | 68 |
| Carbon tetrachloride | ND | 310 | ug/kg | 68 |
| Chloroethane | ND | 310 | ug/kg | 47 |
| 2-Chloroethyl vinyl ether | ND | 630 | ug/kg | 70 |
| Chloroform | ND | 310 | ug/kg | 63 |
| Chloromethane | ND | 310 | ug/kg | 58 |
| Dibromochloromethane | ND | 310 | ug/kg | 41 |
| 1,2-Dichlorobenzene | ND | 310 | ug/kg | 43 |
| 1,3-Dichlorobenzene | ND | 310 | ug/kg | 32 |
| 1,4-Dichlorobenzene | ND | 310 | ug/kg | 33 |
| trans-1,2-Dichloroethene | ND | 310 | ug/kg | 47 |
| Dichlorodifluoromethane | ND | 310 | ug/kg | 40 |
| 1,1-Dichloroethane | ND | 310 | ug/kg | 64 |
| 1,2-Dichloroethane | ND | 310 | ug/kg | 60 |
| 1,1-Dichloroethene | ND | 310 | ug/kg | 67 |
| 1,2-Dichloropropane | ND | 310 | ug/kg | 80 |
| cis-1,3-Dichloropropene | ND | 310 | ug/kg | 46 |
| trans-1,3-Dichloropropene | ND | 310 | ug/kg | 37 |
| Ethylbenzene | 540 | 310 | ug/kg | 39 |
| Methylene chloride | ND | 310 | ug/kg | 68 |
| 1,1,2,2-Tetrachloroethane | ND | 310 | ug/kg | 59 |
| Tetrachloroethene | ND | 310 | ug/kg | 52 |
| Toluene | 10000 P | 310 | ug/kg | 53 |
| 1,1,1-Trichloroethane | ND | 310 | ug/kg | 65 |
| 1,1,2-Trichloroethane | ND | 310 | ug/kg | 73 |
| Trichloroethene | ND | 310 | ug/kg | 50 |
| Trichlorofluoromethane | ND | 310 | ug/kg | 70 |
| Vinyl chloride | ND | 310 | ug/kg | 81 |

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WJ
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Maryland Environmental Service

Client Sample ID: CT-SO-B05-20

GC/MS Volatiles

Lot-Sample #....: C9F100297-003 Work Order #....: LENHN1AU Matrix.....: SOLID

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 76 | (52 - 124) |
| Toluene-d8 | 110 | (72 - 127) |
| 4-Bromofluorobenzene | 101 | (63 - 120) |
| Dibromofluoromethane | 84 | (68 - 121) |

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

EW
8/12/09

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: C9F100297-004 Work Order #....: LENHQ1AA Matrix.....: WATER
 Date Sampled....: 06/09/09 Date Received...: 06/10/09 MS Run #.....: 9162189
 Prep Date.....: 06/11/09 Analysis Date...: 06/11/09
 Prep Batch #....: 9162407 Analysis Time...: 15:58
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 034635 Instrument ID...: HP7
 Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---------------------------|-------------|--------------------|-------|------|
| Acrolein | ND <i>2</i> | 100 | ug/L | 5.7 |
| Acrylonitrile | ND | 100 | ug/L | 6.8 |
| Benzene | ND | 5.0 | ug/L | 0.99 |
| Bromodichloromethane | ND | 5.0 | ug/L | 0.93 |
| Bromoform | ND | 5.0 | ug/L | 1.1 |
| Bromomethane | ND | 5.0 | ug/L | 1.6 |
| 2-Butanone (MEK) | ND | 5.0 | ug/L | 1.1 |
| Carbon tetrachloride | ND | 5.0 | ug/L | 1.1 |
| Chloroethane | ND | 5.0 | ug/L | 0.75 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/L | 1.9 |
| Chloroform | ND | 5.0 | ug/L | 1.0 |
| Chloromethane | ND | 5.0 | ug/L | 1.4 |
| Dibromochloromethane | ND | 5.0 | ug/L | 0.65 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 0.68 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 0.51 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 0.53 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 0.75 |
| Dichlorodifluoromethane | ND | 5.0 | ug/L | 0.64 |
| 1,1-Dichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 0.96 |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 1.1 |
| 1,2-Dichloropropane | ND | 5.0 | ug/L | 1.3 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.73 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/L | 0.58 |
| Ethylbenzene | ND | 5.0 | ug/L | 0.62 |
| Methylene chloride | ND | 5.0 | ug/L | 1.1 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L | 0.93 |
| Tetrachloroethene | ND | 5.0 | ug/L | 0.82 |
| Toluene | ND | 5.0 | ug/L | 0.85 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L | 1.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L | 1.2 |
| Trichloroethene | ND | 5.0 | ug/L | 0.80 |
| Trichlorofluoromethane | ND | 5.0 | ug/L | 1.1 |
| Vinyl chloride | ND | 5.0 | ug/L | 1.3 |

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NW
8/12/09

4

Maryland Environmental Service

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9F100297-004 Work Order #...: LENHQ1AA Matrix.....: WATER

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 93 | (62 - 123) |
| Toluene-d8 | 104 | (80 - 120) |
| 4-Bromofluorobenzene | 89 | (75 - 120) |
| Dibromofluoromethane | 93 | (80 - 120) |

lw
8/12/09