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GROUNDWATER AND ENVIRONMENTAL CONSULTANTS
CENTREVILLE, MARYLAND

October 19, 2012

Ms. Susan Bull
MDE – Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230-1719

SUBJECT: CRHC – Monthly Post-Remedial Progress Report for October 2012

Dear Ms. Bull:

On October 1, 2012, 46 monitoring, recovery and injection wells at the Chester River Hospital Center (CRHC) (see Figure 1) were gauged in accordance with the monitoring modifications detailed in MDE-Oil Control Program's letter dated September 5, 2012. Using an oil/water interface probe, Earth Data personnel gauged each of the 46 onsite wells (see Figure 2) to determine the depth to the water-table and the presence, if any, of liquid hydrocarbons on the surface of the water-table. Using the gauging data, a water-table contour map was prepared showing the groundwater flow direction (see Figure 3).

Following the gauging, eight wells immediately down-gradient of the remediation/containment system were sampled (MW-15, MW-16, MW-19, MW-20, MW-24, MW-33, MW-34 and MW-35). These wells are located in and around the lower parking lot south of Brown Street. Prior to sampling, each well was purged of at least three well volumes of water to ensure that the sample collected was representative of the water in the surrounding formation. The purge water was filtered through granular activated carbon before being discharged onsite. Using dedicated disposable bailers for each well, groundwater samples were collected in pre-labeled sample containers and immediately placed on ice in the field. The samples were sent via courier to an EPA-approved laboratory and analyzed for volatile organic compounds (VOCs), including fuel oxygenates using EPA Method 8260 and for total petroleum hydrocarbons – diesel range organics (TPH-DRO) and gasoline range organics (TPH-GRO) using EPA Method 8015.

The water contour map prepared with the gauging data of October 1, 2012 showed a groundwater flow direction towards the southeast and the Chester River (Figure 3). This is consistent with previous data collected at the site since the shutdown of the remediation/containment system in July 2012. Only one well (MW-47) was found to have a measurable thickness of liquid hydrocarbons on the water-table surface (0.09 feet). An absorbent wick was used in the well to recover the liquid hydrocarbons, leaving a film after the wick was removed. A petroleum sheen or film was observed on the water-table in nine other wells at the site. The Earth Data well gauging report and corresponding field report for October 1, 2012 may be found in Appendix A.

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Laboratory analytical results of the groundwater samples collected showed detectable concentration of petroleum hydrocarbons in only one of eight wells. This is consistent with previous findings for the wells south of Brown Street since the shutdown of the system (Table 1). TPH-DRO concentrations of 4.0 mg/L were found in the sample collected from MW-20. No detectable concentrations of TPH-DRO or TPH-GRO were found in any of the other samples collected. The MW-20 sample also showed an isopropylbenzene concentration of 2.2 ug/l. A very low concentration (1.1 ug/l) of the chlorinated hydrocarbon tetrachloroethylene (PCE) was detected in the sample collected from MW-19. PCE, a decreasing solvent, is not associated with the release of fuel oil from the CRHC site. No other VOCs were detected in any of the samples collected. Water quality maps for the well samples collected may be found in Figures 4 and 5. The laboratory analytical report may be found in Appendix B.

To document the movement, if any, of the liquid and dissolved phase hydrocarbon plumes, Earth Data will continue to gauge all wells and sample the eight targeted wells south of Brown Street on a monthly basis. If you have any question or require additional information, please do not hesitate to call.

Sincerely,

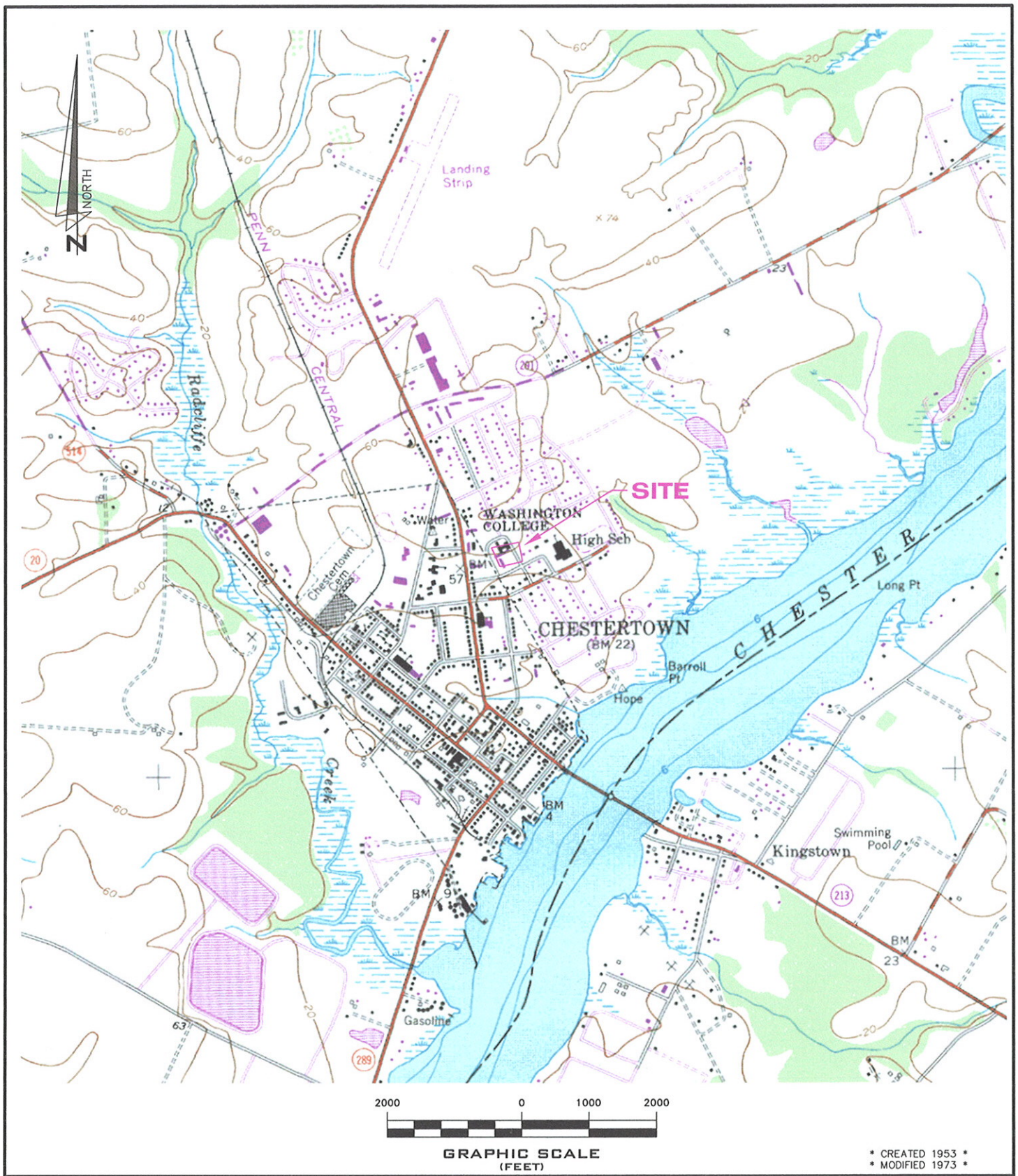
Andrew Bullen
Senior Project Manager

AJB:tjl - 2781

cc: Jim Ross, President - CRHC
Scott Burleson, VP - CRHC
Bill Ingersol – Town of Chestertown
Bob Sipes – Town of Chestertown
Tucker Moorshead – Earth Data, Inc.

Enclosures

FIGURES



* CREATED 1953 *
* MODIFIED 1973 *

J:_Job_Directories\current\2781 Hospital\CAD\Quad\USGS.dwg

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FIGURE 1

LOCATION MAP
FOR
CHESTER RIVER HOSPITAL CENTER
CHESTERTOWN, MARYLAND

PROJ. MGR.:	A.BULLEN
DATE:	10/31/2011
SCALE:	AS SHOWN
EDI #:	2781
DRAWN BY:	T.COCHRUN

PORTION OF USGS 7.5 MINUTE QUADRANGLE FOR CHESTERTOWN, MARYLAND

Figure 1 – Portion of USGS Quadrangle for Chestertown showing the location of Chester River Hospital Center – Chestertown, Maryland.

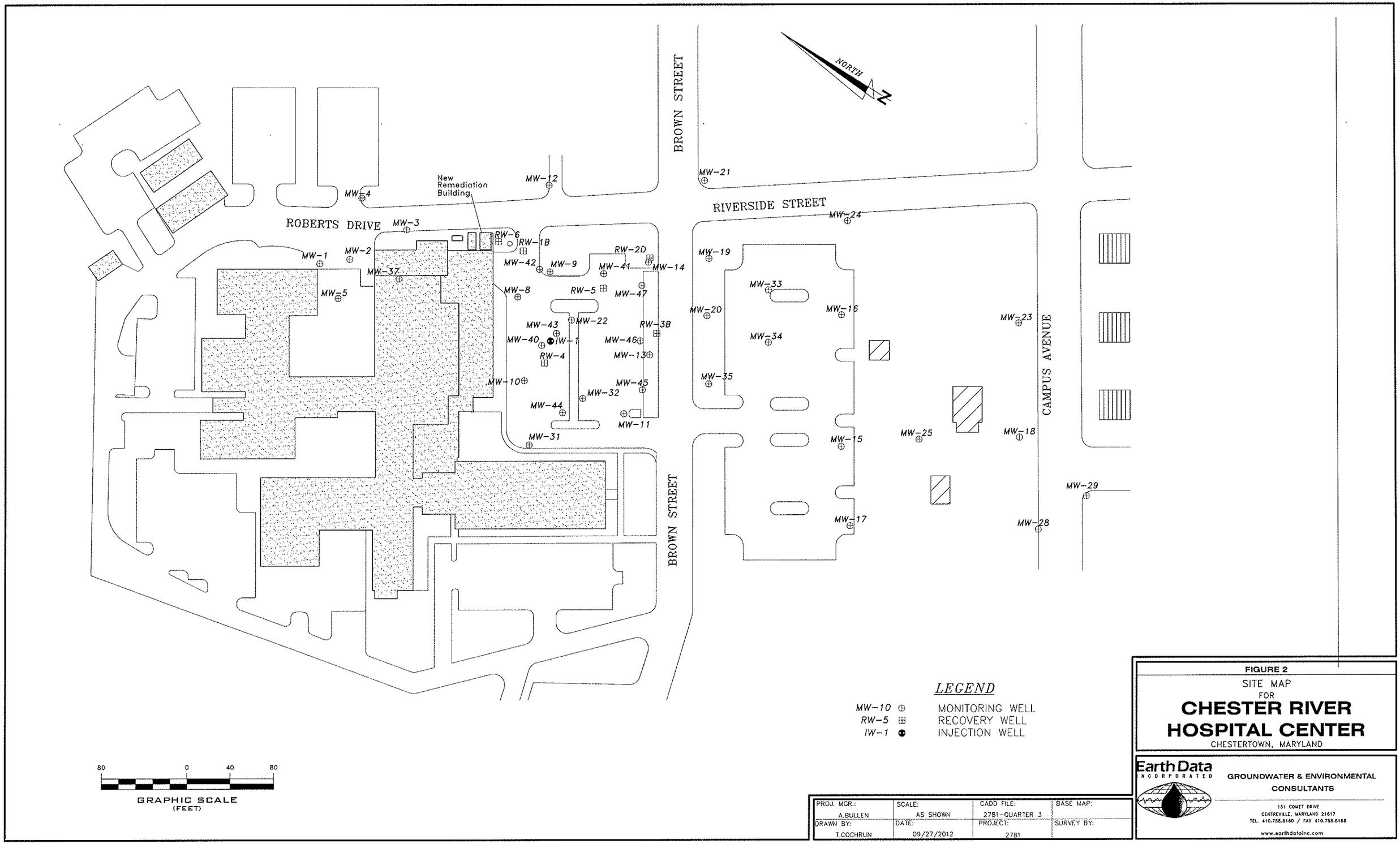
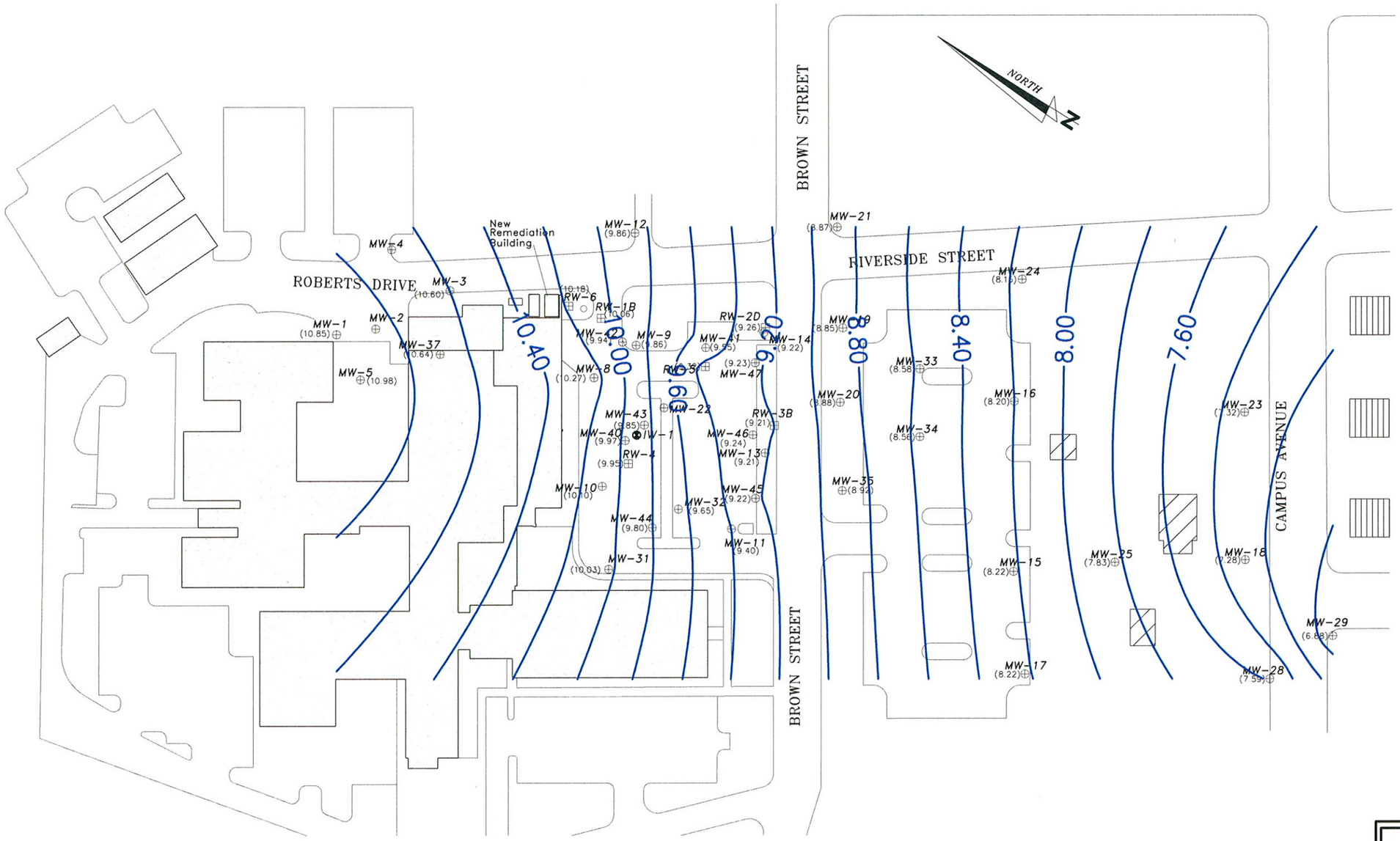


Figure 2 – Site map showing the location of monitoring wells and other pertinent features at the Chester River Hospital Center, Chestertown, Maryland.



LEGEND

MW-10 ⊕	MONITORING WELL
RW-5 ⊞	RECOVERY WELL
IW-1 ●	INJECTION WELL
—— 5.50 ——	WATER TABLE CONTOUR MEASURED 10/01/2012 (FT. MSL)

FIGURE 3

WATER TABLE CONTOUR MAP
FOR
CHESTER RIVER HOSPITAL CENTER
CHESTERTOWN, MARYLAND

PROJ. MGR.:	SCALE:	CADD FILE:	BASE MAP:
A.BULLEN	AS SHOWN	2781-QUARTER 4	
DRAWN BY:	DATE:	PROJECT:	SURVEY BY:
T.COCHRUN	10/04/2012	2781	

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J:_Job_Directories\current\2781 Hospital\CAD\2012\2781-QUARTER 4.dwg

Figure 3 - Water table contour map, October 1, 2012 - Chester River Hospital Center, Chestertown, Maryland.

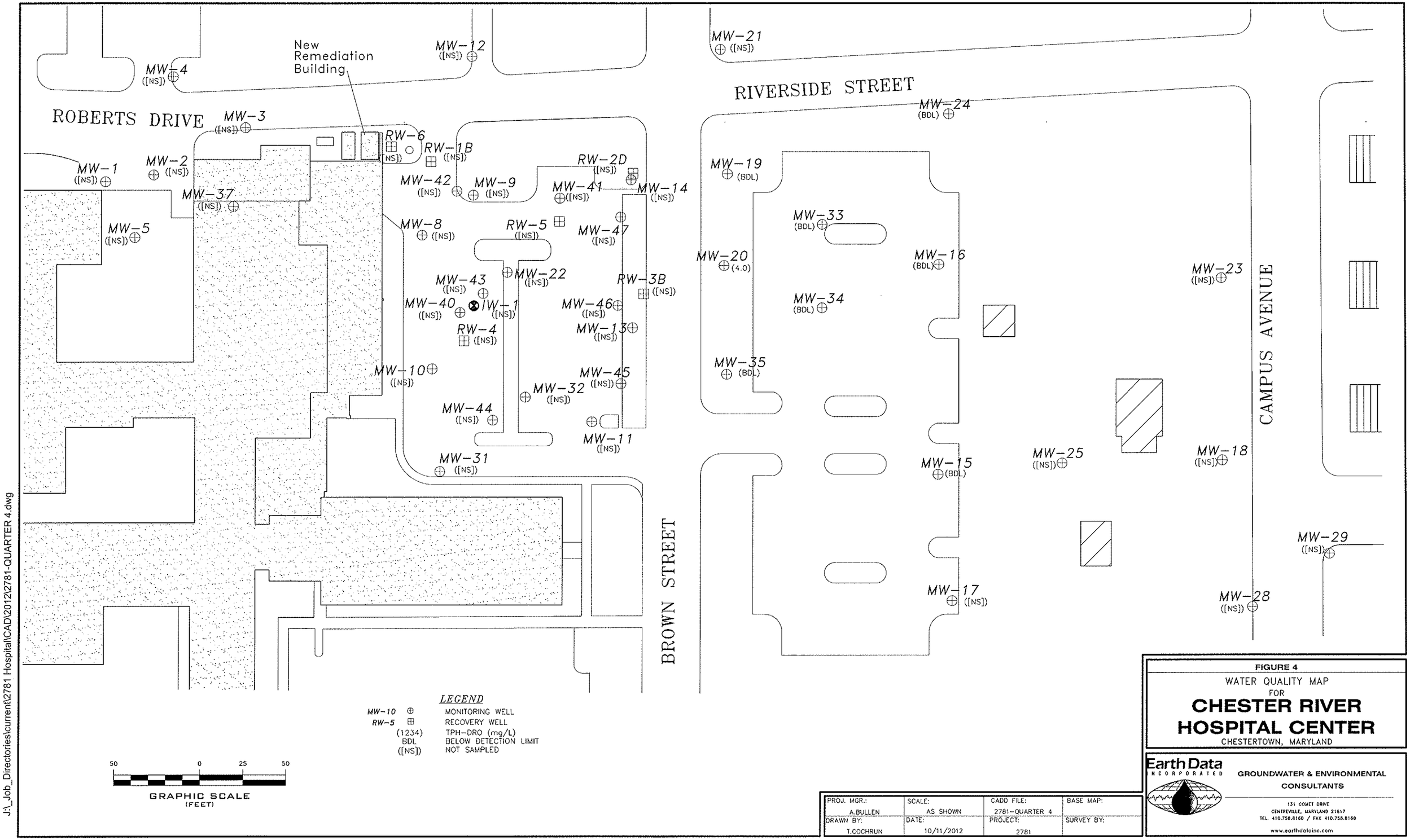

Figure 4– Water quality map showing dissolved total petroleum hydrocarbon (TPH) concentrations, October 1, 2012, Chester River Hospital Center, Chestertown, Maryland.

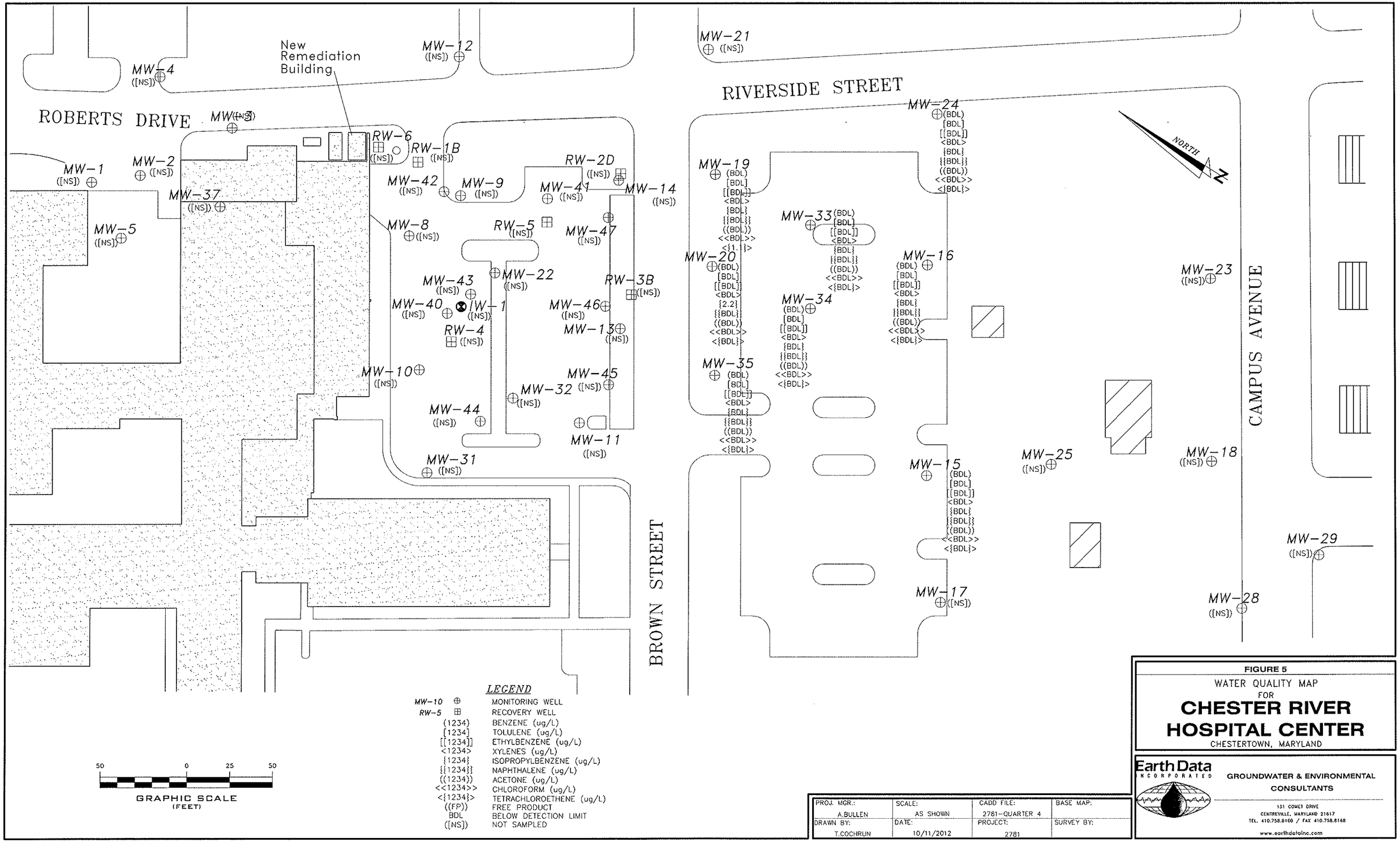

Figure 5– Water quality map showing dissolved BTEX and other detected VOC concentrations, October 1, 2012, Chester River Hospital Center, Chestertown, Maryland.

TABLE

MW-15

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Toluene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Ethylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Total Xylenes (ug/L)	NS	NS	NS	<2	NS	<2	<2
TOTAL BTEX (ug/L)	NS	NS	NS	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	<1	<1
TPH-DRO (mg/L)	NS	NS	NS	<0.1	NS	<0.1	<0.1

MW-16

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	NS	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	**1.9**	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	**1.1**	<1
TPH-DRO (mg/L)	<0.1	<0.1	<0.1	<0.1	NS	<0.1	<0.1

MW-19

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	NS	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	<1	**1.1**
TPH-DRO (mg/L)	<0.1	<0.1	<0.1	<0.1	NS	<0.1	<0.1

MW-20

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	<1	<1	**2.2**
Naphthalene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	<10	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	<1	**1.5**	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	<1	**1.2**	<1
TPH-DRO (mg/L)	**3.9**	**2.5**	**0.27**	**1.3**	**1.9**	**1.8**	**4.0**

MW-24

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Toluene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Ethylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Total Xylenes (ug/L)	NS	NS	NS	<2	NS	<2	<2
TOTAL BTEX (ug/L)	NS	NS	NS	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	<1	<1
TPH-DRO (mg/L)	NS	NS	NS	<0.1	NS	<0.1	<0.1

MW-33

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	NS	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	<1	<1
TPH-DRO (mg/L)	<0.1	<0.1	<0.1	<0.1	NS	<0.1	<0.1

MW-34

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	<2	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	<1	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	<1	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	<10	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	<1	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	<1	<1	<1
TPH-DRO (mg/L)	<0.1	<0.1	<0.1	**0.14**	<0.1	<0.1	<0.1

MW-35

	27-Sep-11	15-Dec-11	27-Mar-12	5-Jun-12	27-Jul-12	5-Sep-12	1-Oct-12
Benzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Toluene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Ethylbenzene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Total Xylenes (ug/L)	<2	<2	<2	<2	NS	<2	<2
TOTAL BTEX (ug/L)	<2	<2	<2	<2	NS	<2	<2
Isopropylbenzene (ug/L)	NS	NS	NS	<1	NS	<1	<1
Naphthalene (ug/L)	<1	<1	<1	<1	NS	<1	<1
Acetone (ug/L)	NS	NS	NS	<10	NS	<10	<10
Chloroform (ug/L)	NS	NS	NS	<1	NS	<1	<1
Tetrachloroethene (ug/L)	NS	NS	NS	<1	NS	<1	<1
TPH-DRO (mg/L)	<0.1	**0.19**	<0.1	<0.1	NS	<0.1	<0.1

NS = NOT SAMPLED
<Value is less than the laboratory detection limit

Table 1. Summary of water quality data for select monitoring wells at Chester River Hospital Center, Chestertown, Maryland

APPENDIX A

Well Gauging Reports

&

Field Reports

PETROLEUM PRODUCT / WATER - LEVEL DATA SHEET

W.O. #: 2781

PROJECT: Chester River Hospital Center
LOCATION: Chestertown, Maryland

DATE: 1-Oct-12
WEATHER: 70 F
COLLECTED BY: TL, TT
ENTERED BY: TL

Type product: Fuel oil
Petro correction factor: 0.80

Monitoring Point	Description of Measuring Point (ft msl)	Measuring Point Elevation (ft)	Product Depth (ft)	Water Depth (ft)	Product Thickness (ft)	Fluid Level Elevation (ft msl)	Corrected Water Elevation (ft msl)	Estimated Amount Product Recovered (gal) / NOTES:
MW-1	Lip of Casing	57.05		46.11		10.94	10.94	
MW-2	Lip of Casing	56.37		45.52		10.85	10.85	
MW-3	Lip of Casing	50.55		39.95		10.60	10.60	
MW-4	Lip of Casing	53.4		36.68		16.72	16.72	
MW-5	Lip of Casing	61.08		50.10		10.98	10.98	
MW-6	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion
MW-7	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion
MW-8	Lip of Casing	47.82		37.55		10.27	10.27	
MW-9	Lip of Casing	46.95		37.09		9.86	9.86	
MW-10	Lip of Casing	47.76		37.66		10.10	10.10	
MW-11	Lip of Casing	41.49		32.09		9.40	9.40	
MW-12	Lip of Casing	44.46		34.60		9.86	9.86	
MW-13	Lip of Casing	41.7		32.49		9.21	9.21	
MW-14	Lip of Casing	41.38	32.16	32.16	0.00	9.22	9.22	sheen
MW-15	Lip of Casing	35.01		26.79		8.22	8.22	sampled
MW-16	Lip of Casing	35.55		27.35		8.20	8.20	sampled
MW-17	Lip of Casing	35.49		27.27		8.22	8.22	
MW-18	Lip of Casing	35.82		28.54		7.28	7.28	
MW-19	Lip of Casing	38.85		30.00		8.85	8.85	sampled
MW-20	Lip of Casing	38.72		29.84		8.88	8.88	sampled; sheen observed in sample after purging well
MW-21	Lip of Casing	38.55		29.68		8.87	8.87	
MW-22	Lip of Casing	45.75	35.94	35.94	0.00	9.81	9.81	sheen
MW-23	Lip of Casing	35.95		28.64		7.31	7.31	
MW-24	Lip of Casing	36.56		28.41		8.15	8.15	sampled
MW-25	Lip of Casing	36.1		28.27		7.83	7.83	
MW-27	Lip of Casing	--------	--------	--------	--------	--------	--------	well abandoned
MW-28	Lip of Casing	35.9		28.31		7.59	7.59	
MW-29	Lip of Casing	35.15		28.27		6.88	6.88	
MW-30	Lip of Casing	--------	--------	--------	--------	--------	--------	Well destroyed in building expansion
MW-31	Lip of Casing	46.31		36.28		10.03	10.03	
MW-32	Lip of Casing	44.6		34.95		9.65	9.65	
MW-33	Lip of Casing	36.52		27.94		8.58	8.58	sampled
MW-34	Lip of Casing	36.64		28.08		8.56	8.56	sampled
MW-35	Lip of Casing	38.62		29.70		8.92	8.92	sampled
MW-37	Lip of Casing	50.54	39.90	39.90	0.00	10.64	10.64	film
MW-38	Lip of Casing	--------	--------	--------	--------	--------	--------	pump stuck in well - not able to gauge
RW-1B	Lip of Casing	45.96		35.90		10.06	10.06	
RW-2D	Lip of Casing	40.54	31.28	31.28	0.00	9.26	9.26	film
RW-3B	Lip of Casing	39.45	30.24	30.24	0.00	9.21	9.21	sheen
MW-40	Lip of Casing	46.85		36.88		9.97	9.97	
MW-41	Lip of Casing	42.92		33.37		9.55	9.55	
RW-4	Lip of Casing	45.69		35.74		9.95	9.95	
RW-5	Lip of Casing	42.92	33.60	33.60	0.00	9.32	9.32	sheen
RW-6	Lip of Casing	47.22		37.04		10.18	10.18	
RW-2A	Lip of Casing	39.84	--------	--------	--------	--------	--------	well abandoned 3-08
RW-2B	Lip of Casing	39.18	--------	--------	--------	--------	--------	well abandoned 3-08
RW-2C	Lip of Casing	--------	--------	--------	--------	--------	--------	well abandoned 9-03
RW-3A	Lip of Casing	--------	--------	--------	--------	--------	--------	well abandoned 9-03
MW-42	Lip of Casing	47.04		37.10		9.94	9.94	
MW-43	Lip of Casing	46.55	36.70	36.70	0.00	9.85	9.85	sheen
MW-44	Lip of Casing	46.66		36.86		9.80	9.80	
MW-45	Lip of Casing	40.91		31.69		9.22	9.22	
MW-46	Lip of Casing	41.08	31.84	31.84	0.00	9.24	9.24	sheen
MW-47	Lip of Casing	40.74	31.49	31.58	0.09	9.25	9.23	used absorbent wic to recover 0.05 gal of free product; film remaining
IW-1	Lip of Casing	--------		36.68		--------	--------	

Project Name:	**Chester River Hospital Center**	Date:	**1-Oct-12**
Project #:	**2781**	Time on - site:	**11:05 AM**
Location:	**Chestertown, Maryland**	Weather:	**70 F**
Personnel present at site:	**TL, TT**	Vehicle:	**98 Ranger**

Reason for site visit:	yes	no
Surveying	☐	☑
Monitoring	☑	☐
Sampling	☑	☐
Other	☑	☐
Recovery system maintenance	☐	☑
Recovery system repair	☐	☑

Scheduled Activities	Checklist	yes	no	n/a	Exceptions (with explanation and comments)
Routine Monitoring	Measured water & petroleum levels	☑	☐	☐	all wells
	Pumped petroleum from wells	☐	☑	☐	
	Emptied petro trap	☐	☐	☑	
	Installed, replaced, or inspected wics	☑	☐	☐	Used wic to recover product from MW-47 and removed wic before leaving site
	Measured and recorded system data	☐	☐	☑	
	Surveyed well elevations	☐	☐	☑	
	Inspected system discharge at storm drain	☐	☐	☑	
Sampling	Groundwater sampling(note which wells were sampled on petro form)	☑	☐	☐	MW-15, MW-16, MW-19, MW-20, MW-24, MW-33, MW-34 ar MW-35
	Petroleum sampling(note which wells were sampled on petro form)	☐	☑	☐	
	Soil sampling	☐	☐	☑	
	Vapor system sampling	☐	☐	☑	
	Collected sample(s) in lab bottle(s) & chilled	☑	☐	☐	
	Filled out labels and chain-of-custody	☑	☐	☐	
Other Activities	Recorded amount recovered	☐	☐	☑	
	Completed site sketch	☐	☐	☑	
	Recovery system repair	☐	☑	☐	
	Completed materials and equipment form	☑	☐	☐	

Comments Observations

System is off - shut down on 12 Jul 12
Gauged all wells as part of monthly monitoring
Sampled eight wells as part of monthly monitoring: MW-15, MW-16, MW-19, MW-20, MW-24, MW-33, MW-34 MW-35
Used an absorbent wic to recover approx. 0.05 gal free product from MW-47; removed wic from well before leav site, regauged well with only a film remaining

APPENDIX B

Laboratory Analytical Reports

Analytical Report for

Earth Data, Inc

Certificate of Analysis No.: 12100224

Project Manager: Andrew Bullen
Project Name : Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID : 2781

October 9, 2012

Phase Separation Science, Inc.
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PHASE SEPARATION SCIENCE, INC.

October 9, 2012

Andrew Bullen
Earth Data, Inc
131 Comet Drive
Centerville, MD 21617

Reference: PSS Work Order No: **12100224**
Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID.: 2781

Dear Andrew Bullen :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **12100224**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on November 6, 2012. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: Earth Data, Inc

Project Name: Chester River Hospital Center

Project ID: 2781 **Work Order Number: 12100224**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/02/2012 at 04:10 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
12100224-001	MW-15	GROUND WATER	10/01/2012 13:05
12100224-002	MW-16	GROUND WATER	10/01/2012 13:30
12100224-003	MW-19	GROUND WATER	10/01/2012 14:45
12100224-004	MW-20	GROUND WATER	10/01/2012 15:10
12100224-005	MW-24	GROUND WATER	10/01/2012 12:42
12100224-006	MW-33	GROUND WATER	10/01/2012 13:48
12100224-007	MW-34	GROUND WATER	10/01/2012 14:05
12100224-008	MW-35	GROUND WATER	10/01/2012 14:23

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Case Narrative Summary

Client Name: Earth Data, Inc

Project Name: Chester River Hospital Center

Project ID: 2781 Work Order Number: 12100224

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-15 **Date/Time Sampled: 10/01/2012 13:05** **PSS Sample ID: 12100224-001**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 12:09	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 13:07	1035

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No: 12100224

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October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-15 **Date/Time Sampled: 10/01/2012 13:05** **PSS Sample ID: 12100224-001**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 17:36	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 17:36	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-15 **Date/Time Sampled: 10/01/2012 13:05** **PSS Sample ID: 12100224-001**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 17:36	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 17:36	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 17:36	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 17:36	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 17:36	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 17:36	1011

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 10/01/2012 13:30** **PSS Sample ID: 12100224-002**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 12:32	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 13:32	1035

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Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 10/01/2012 13:30** **PSS Sample ID: 12100224-002**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 18:05	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 18:05	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011

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Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-16 **Date/Time Sampled: 10/01/2012 13:30** **PSS Sample ID: 12100224-002**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 18:05	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 18:05	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 18:05	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 18:05	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 18:05	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:05	1011

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CERTIFICATE OF ANALYSIS

No: 12100224
Earth Data, Inc, Centerville, MD
October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 10/01/2012 14:45** **PSS Sample ID: 12100224-003**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO Analytical Method: SW-846 8015 C Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 12:32	1040

Total Petroleum Hydrocarbons-GRO Analytical Method: SW-846 8015C Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 13:58	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 10/01/2012 14:45** **PSS Sample ID: 12100224-003**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 18:35	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 18:35	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-19 **Date/Time Sampled: 10/01/2012 14:45** **PSS Sample ID: 12100224-003**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 18:35	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 18:35	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 18:35	1011
Tetrachloroethene	**1.1**	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 18:35	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 18:35	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 18:35	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 10/01/2012 15:10** **PSS Sample ID: 12100224-004**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	**4.0**	mg/L	0.10		1	10/08/12	10/08/12 12:55	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 14:23	1035

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 10/01/2012 15:10** **PSS Sample ID: 12100224-004**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 19:05	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 19:05	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-20 **Date/Time Sampled: 10/01/2012 15:10** **PSS Sample ID: 12100224-004**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 19:05	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 19:05	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 19:05	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 19:05	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Isopropylbenzene	**2.2**	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 19:05	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:05	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 10/01/2012 12:42** **PSS Sample ID: 12100224-005**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 12:55	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 14:48	1035

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 10/01/2012 12:42** **PSS Sample ID: 12100224-005**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 19:34	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 19:34	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-24 **Date/Time Sampled: 10/01/2012 12:42** **PSS Sample ID: 12100224-005**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 19:34	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 19:34	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 19:34	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 19:34	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 19:34	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 19:34	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 10/01/2012 13:48** **PSS Sample ID: 12100224-006**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 13:18	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 15:13	1035

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 10/01/2012 13:48** **PSS Sample ID: 12100224-006**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 20:04	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 20:04	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-33 **Date/Time Sampled: 10/01/2012 13:48** **PSS Sample ID: 12100224-006**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 20:04	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 20:04	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 20:04	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 20:04	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 20:04	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:04	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 10/01/2012 14:05** **PSS Sample ID: 12100224-007**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 13:18	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 15:38	1035

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 10/01/2012 14:05** **PSS Sample ID: 12100224-007**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 20:33	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Acetone	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/03/12 20:33	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-34 **Date/Time Sampled: 10/01/2012 14:05** **PSS Sample ID: 12100224-007**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/03/12 20:33	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/03/12 20:33	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/03/12 20:33	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/03/12 20:33	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/03/12 20:33	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/03/12 20:33	1011

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-35 **Date/Time Sampled: 10/01/2012 14:23** **PSS Sample ID: 12100224-008**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

Total Petroleum Hydrocarbons - DRO — Analytical Method: SW-846 8015 C — Preparation Method: 3510C

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-DRO (Diesel Range Organics)	ND	mg/L	0.10		1	10/08/12	10/08/12 13:41	1040

Total Petroleum Hydrocarbons-GRO — Analytical Method: SW-846 8015C — Preparation Method: 5030

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
TPH-GRO (Gasoline Range Organics)	ND	ug/L	100		1	10/03/12	10/03/12 16:03	1035

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CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-35 **Date/Time Sampled: 10/01/2012 14:23** **PSS Sample ID: 12100224-008**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Chloromethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Vinyl Chloride	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
tert-Butyl alcohol	ND	ug/L	20		1	10/03/12	10/04/12 01:27	1011
Bromomethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Chloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Acetone	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Cyclohexane	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Trichlorofluoromethane	ND	ug/L	5.0		1	10/03/12	10/04/12 01:27	1011
1,1-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Methylene Chloride	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
trans-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Methyl-t-butyl ether	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,1-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
2-Butanone (MEK)	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
cis-1,2-Dichloroethene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Bromochloromethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Chloroform	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,1,1-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,2-Dichloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Carbon Tetrachloride	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Benzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,2-Dichloropropane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Methyl Acetate	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Methylcyclohexane	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Trichloroethene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Carbon Disulfide	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Bromodichloromethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
cis-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12100224

Earth Data, Inc, Centerville, MD

October 9, 2012

Project Name: Chester River Hospital Center
Project Location: Chestertown, Maryland
Project ID: 2781

Sample ID: MW-35 **Date/Time Sampled: 10/01/2012 14:23** **PSS Sample ID: 12100224-008**
Matrix: GROUND WATER **Date/Time Received: 10/02/2012 16:10**

TCL Volatiles plus Oxygenates — Analytical Method: SW-846 8260 B — Preparation Method: 5030B

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
4-Methyl-2-Pentanone	ND	ug/L	5.0		1	10/03/12	10/04/12 01:27	1011
trans-1,3-Dichloropropene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,1,2-Trichloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Toluene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
2-Hexanone	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Dibromochloromethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
tert-Amyl ethyl ether	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
tert-Butyl ethyl ether	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
Diisopropyl ether	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
tert-Amyl methyl ether	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
tert-Amyl alcohol	ND	ug/L	20		1	10/03/12	10/04/12 01:27	1011
Bromoform	ND	ug/L	5.0		1	10/03/12	10/04/12 01:27	1011
Tetrachloroethene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Chlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Ethylbenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
m,p-Xylenes	ND	ug/L	2.0		1	10/03/12	10/04/12 01:27	1011
Styrene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
o-Xylene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Isopropylbenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,3-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,4-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,2-Dichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,2-Dibromo-3-Chloropropane	ND	ug/L	10		1	10/03/12	10/04/12 01:27	1011
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
Naphthalene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1	10/03/12	10/04/12 01:27	1011

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	12100224	**Received By**	Lynn Moran
Client Name	Earth Data, Inc	**Date Received**	10/02/2012 04:10:00 PM
Project Name	Chester River Hospital Center	**Delivered By**	Trans Time Express
Project Number	2781	**Tracking No**	Not Applicable
Disposal Date	11/06/2012	**Logged In By**	Lynn Moran

Shipping Container(s)

No. of Coolers	1	Ice	Present
		Temp (deg C)	2
Custody Seal(s) Intact?	N/A	Temp Blank Present	No
Seal(s) Signed / Dated?	N/A		

Documentation

		Sampler Name	Tracy Lee
		MD DW Cert. No.	N/A
COC agrees with sample labels?	Yes		
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 8

Total No. of Containers Received 56

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(ph<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: Lynn Moran — Date: 10/02/2012

PM Review and Approval: John Slowikowski — Date: 10/03/2012