APPENDIX A MDE VCP APPLICATION APPROVAL LETTER



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230 410-537-3000 • 1-800-633-6101 • www.mde.maryland.gov

Larry Hogan Governor Ben Grumbles Secretary

Boyd Rutherford Lieutenant Governor

March 30, 2015

CERTIFIED MAIL

Marc Weller, Member Dickman Property Investments LLC 1000 Key Highway East Baltimore, MD 21230

Re:

Voluntary Cleanup Program Application

101 West Dickman Street Property

Baltimore, Maryland 21230

Dear Mr. Weller:

The Voluntary Cleanup Program ("VCP") of the Maryland Department of the Environment ("Department") has completed its evaluation of the complete VCP application package submitted for commercial use of the 101 West Dickman Street property, located in Baltimore City, Maryland. The Department accepts the 6.77-acre property into the VCP and confirms the inculpable person status of Dickman Property Investments LLC for this property pursuant to Title 7, Subtitle 5 of the Environment Article, Annotated Code of Maryland.

The property does not qualify for a No Further Requirements Determination and a proposed response action plan ("RAP") for commercial use of the property must be developed, approved by the Department and implemented to address risks to human health and the environment at the property. The RAP will not include the ongoing investigation and recovery of free phase petroleum product conducted by a previous property owner, City of Baltimore, under the supervision of the Department's Oil Control Program (Case Number 2013-0631-BC).

Submission of the proposed RAP and implementation of all statutory requirements must occur within 18 months of receipt of this letter. The guidelines for preparation of the proposed RAP are available on the Department's web site and the statutory requirements can be found in Section 7-508 of the Environment Article. Simultaneously with submission of the proposed RAP to the Department for review and approval, you must comply with the public participation requirements by posting a sign at the property and publishing a notice in a daily or weekly newspaper of general circulation in the geographic area where the participating property is located. Both notices for the proposed RAP must include the date and location of the public informational meeting. A summary of the public participation requirements and a template for the public notice in the newspaper and the sign on the property will be provided via email upon request.

You are requested to forward a draft of the sign and newspaper notice for the proposed RAP to

Marc Weller, Member Page 2

the VCP for review prior to publication and posting at the property. Upon satisfactory implementation and completion of the requirements set forth in the approved RAP and any subsequent addendums, the Department will issue a Certificate of Completion for the property, which must be recorded in the land records of Baltimore City within 30 days following receipt.

You are encouraged to contact Barbara Brown, VCP Section Head, to discuss development of the proposed RAP and the expected date for submitting the proposed RAP to the Department for review and approval.

In accordance with the provisions of Section 7-506(g)(1) of the Environment Article, you are requested to inform the Department in writing, within 30 days of receipt of this letter, whether Dickman Property Investments, LLC intends to proceed as a participant in the VCP. If the Department does not receive the notice of intent to proceed within the 30-day period, the application for participation in the VCP shall be deemed withdrawn pursuant to Section 7-506(g)(2) of the Environment Article.

If you have any questions regarding the requirements, development of the proposed RAP or other aspects of the program, please contact Ms. Barbara Brown at 410-537-3493.

Sincerely

James Carroll, Administrator Land Restoration Program

cc: Paul Hayden, Geo-Technology Associates

Mr. Horacio Tablada

Ms. Barbara Brown

Mr. Chris Hartman

101 WEST DICKMAN STREET PROPERTY Baltimore City, Maryland

Comments on the Application Package

GENERAL COMMENT

Note that the VCP had previously accepted the property into the program pending the development and completion of a response action plan to address the identified risks from metals and carcinogenic polycyclic aromatic hydrocarbons in surface and sub-surface soil and for potential vapor intrusion of volatiles in soil to indoor air for future commercial use populations. In addition to these risks, the response activities should include containment or removal of the soils impacted by diesel range organics, near the former compressor blow-down location.

APPLICATION

Provide a chain of title for the property.

PHASE I

To meet the requirements of ASTM International E1527-13, All Appropriate Inquiry, and CERCLA/Superfund, the Phase I must assess the potential for the encroachment of volatile organic compound vapors at or onto the property and the possible intrusion into current or future indoor occupied spaces. Please provide a narrative to address these issues at the property.

Provide information in regards to any interviews or attempts to interview the previous owner or occupants.

SUPPLEMENTAL SAMPLING

Additional sampling is required to fully characterize the property for potential contaminants in soil and soil gas from prior use of the property. The proposed sampling locations are identified on Figure 1 and detailed in Tables 1, 2 and 3.

Soil Sampling

Collect 20 representative surface (0 to 1 foot) soil samples from the proposed approximate locations in the grassy areas shown on Figure 1. Create two composite samples from those 20 samples and analyze as indicated in Table 1 for the following parameters; priority pollutant list metals (PPLM, EPA Method 6020) and semi-volatile organic compounds including carcinogenic polycyclic aromatic hydrocarbons (SVOCs, EPA Method 8270).

If unusual conditions such as staining, discoloration, odor, and/or liquid are observed within any soil profile, collect a sample at that location and analyze at the fixed laboratory for these parameters: PPLM and SVOCs.

Chromium Analyses in Soils: If total chromium is detected in the soil sample at levels exceeding the MDE cleanup standard relevant to the future use designation of the property, the soil sample must be speciated for Cr(VI) and Cr(III). If total chromium concentrations reported to MDE are not speciated for Cr(VI) and Cr(III), MDE will assume that the chromium concentrations reported are Cr(VI), which is the more toxic form of chromium and has lower cleanup standards than trivalent chromium.

Mercury Analyses in Soils: If mercury is detected in the soil sample at levels exceeding the MDE cleanup standard relevant to the future use designation of the property, the sample must be differentiated for inorganic/elemental mercury. If total mercury concentrations are not differentiated, MDE will evaluate the reported mercury as both elemental mercury and organic mercury.

Soil Vapor Sampling

Collect sub-slab soil vapor samples from the locations shown on Figure 1 and listed in Table 2, the volatile organic compound (VOC) sampling should utilize EPA Method TO-17 using Summa canisters and be collected for a minimum of eight (8) hours.

Results reported to the VCP should include the following: 1) a narrative summary describing the area sampled, cap condition, sampling period, sample depth, methods used, and soil type encountered; 2) figures and photographs documenting the location of the samples and condition of the slab; 3) results for all detected analytes [in units of $\mu g/m3$]; and 4) copies of the laboratory analytical data sheets with minimum detection limits and practical quantitation limits.

QUALITY ASSURANCE/QUALITY CONTROLS

Detection Limits: Low detection limits must be obtained during sample analyses. The detection limits for soil and groundwater samples should be comparable to the soil and groundwater guidelines established in the Department's March 2008 Interim Final Guidance document. Data with elevated detection limits will be deemed unacceptable.

Data Deliverables: MDE recommends the use of quality assurance and quality control measures during the sampling program; such measures help insure the veracity of sampling data. Refer to *Attachment A* for details on the project deliverables requested by the Department as part of the laboratory's analytical data package.

Table 1. Proposed soil sampling plan for the 101 West Dickman St., Baltimore, Maryland.

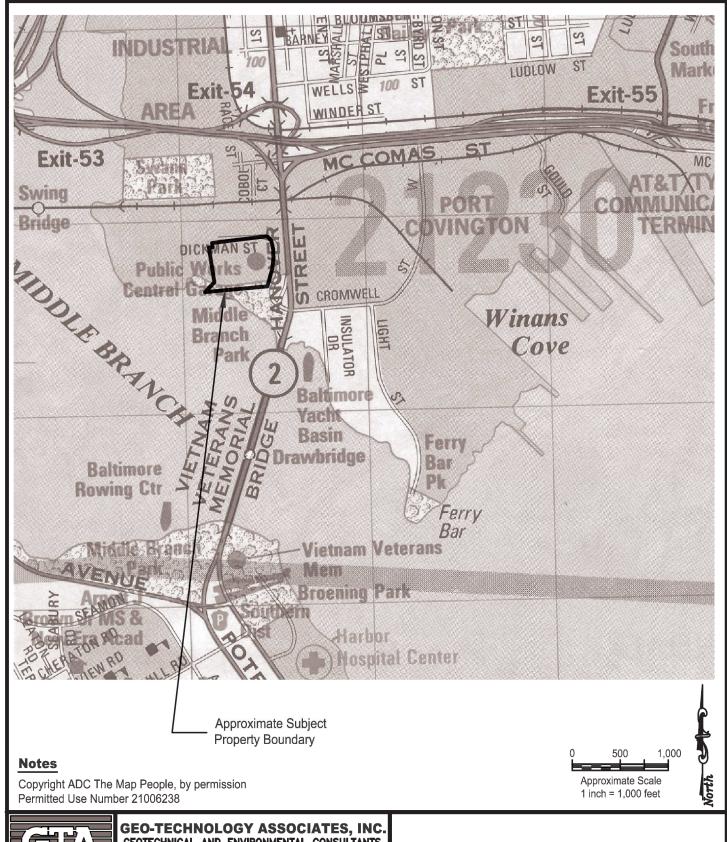
Number of Sample Locations	Depths	Analytical Parameters	Rationale
20	(0 – 1')	Fixed Lab Analysis PPLM (EPA Method 6020) SVOCs (EPA Method 8270)	Collect representative soil samples from the 20 locations shown on Figure 1 and create one, composite sample for each parameter. Analyze as needed for speciation of Cr (VI) and/or differentiation of inorganic/elemental mercury.
Recommende	d Soil QA/Q	C Parameters	
Duplicate	(0 – 1')	Fixed Lab Analysis PPLM (EPA Method 6020) SVOCs (EPA Method 8270)	Collect representative soil samples from the 20 locations shown on Figure 1 and create one composite sample for each parameter. Analyze as needed for speciation of Cr (VI) and/or differentiation of inorganic/elemental mercury.
MS/MSD (Collect at one location)		Matrix Spike and Duplicate Performed by the lab	A matrix spike is recommended for every 20 samples per matrix submitted to the lab.

Table 2. Proposed soil gas samples for the 101 West Dickman St., Baltimore, Maryland.

Soil Gas Sampling		es de periode de la comercia	
Sample Locations	Analytical Parameters	Rationale	
1 through 9	Fixed Lab Analysis VOCs (EPA method TO-15 or equivalent) 8 Hour Minimum Sample Period, Overnight Acceptable	Collect a representative sub-slab soil vapor sample from below the building.	
Recommended Soi	Gas QA/QC Parameters	Andreas and the second of the	
Blind Duplicate Collect at Location 3	Fixed Lab Analysis VOCs (EPA method TO-15 or equivalent) 8 Hour Minimum Sample Period, Overnight Acceptable	One duplicate sample is recommended for every 10 samples per matrix	

APPENDIX B

FIGURES





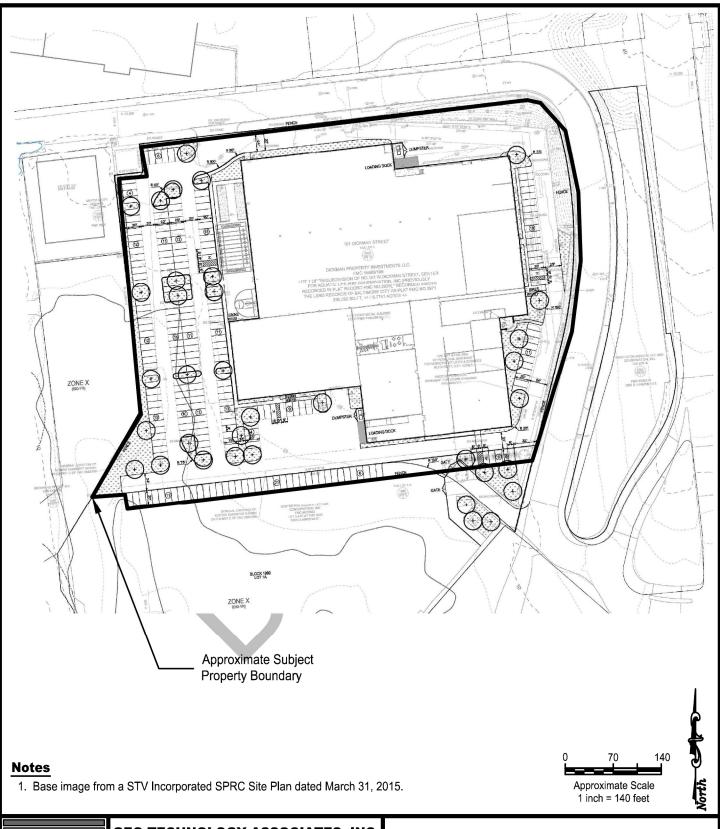
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-9446 OR (301) 470-4470 FAX: (410) 792-7395 www.mragta.com © Geo-Technology Associates, Inc.

101 WEST DICKMAN STREET BALTIMORE CITY, MARYLAND

SITE LOCATION MAP

PROJECT: 140144 DATE: APRIL 2015 SCALE: 1" = 1000' **DESIGN BY:** REVIEW BY: LMD PHH FIGURE:



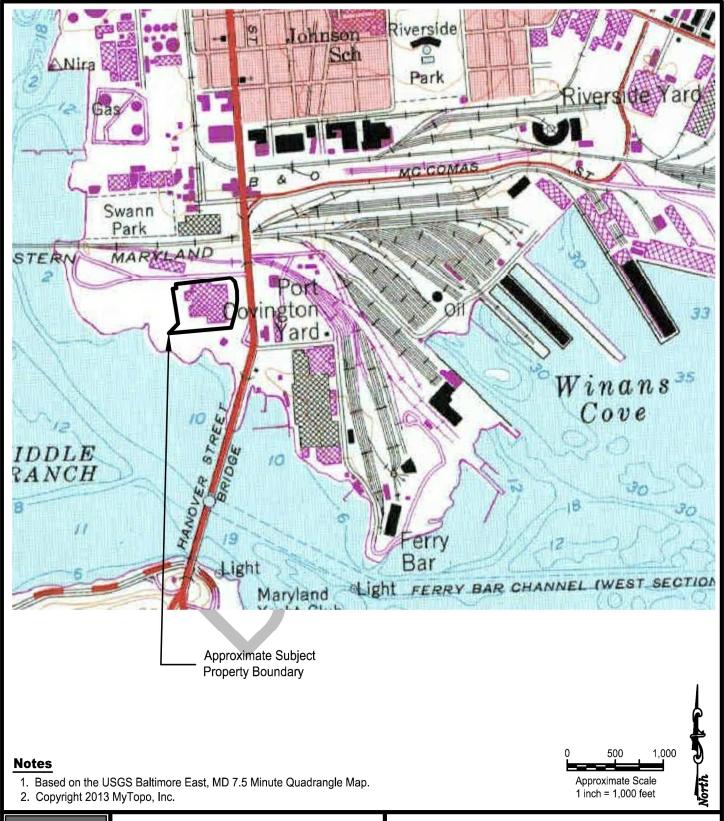


GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-9446 or (301) 470-4470 FAX: (410) 792-7395 www.mragta.com © Geo-Technology Associates, Inc. 101 WEST DICKMAN STREET
BALTIMORE CITY, MARYLAND

PROPOSED SITE RENOVATIONS

PROJECT: 140144 DATE: APRIL 2015 SCALE: 1" = 140' DESIGN BY: LMD REVIEW BY: PHH FIGURE: 2





GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-9446 OR (301) 470-4470 FAX: (410) 792-7395 www.mragta.com

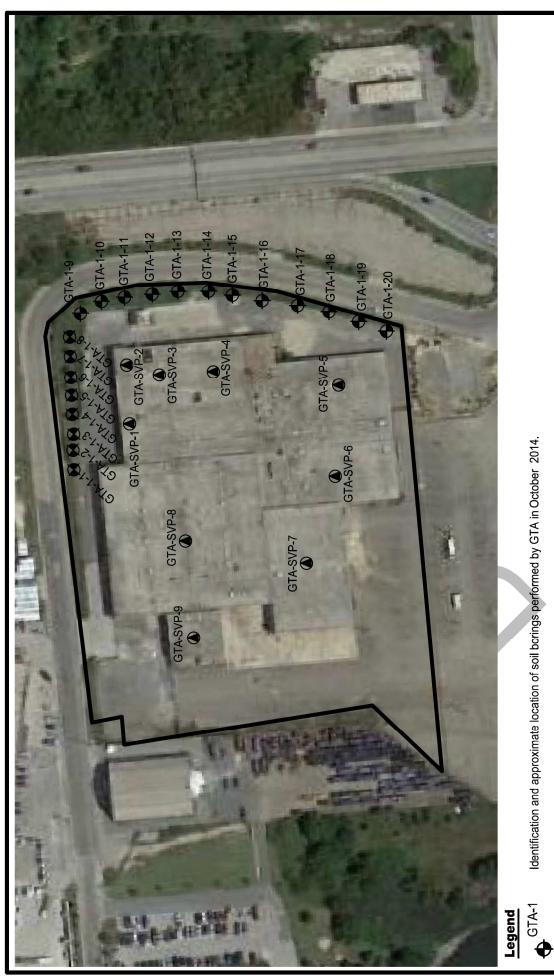
© Geo-Technology Associates, Inc.

TOPOGRAPHIC MAP

101 WEST DICKMAN STREET

BALTIMORE CITY, MARYLAND

DATE: APRIL 2015 SCALE: 1" = 1000' DESIGN BY: REVIEW BY: FIGURE: PROJECT: 140144 LMD PHH



Identification and approximate location of soil borings performed by GTA in October 2014.



GTA-SVP-1 Identification and approximate location of subslab soil vapor probes installed by GTA in October 2014.

Notes

Approximate Scale 1 inch = 120 feet 1. Base image obtained from Google Earth.



GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 www.mragta.com © Geo-Technology Associates, Inc. (410) 792-9446 OR (301) 470-4470 FAX: (410) 792-7395

101 WEST DICKMAN STREET BALTIMORE CITY, MARYLAND

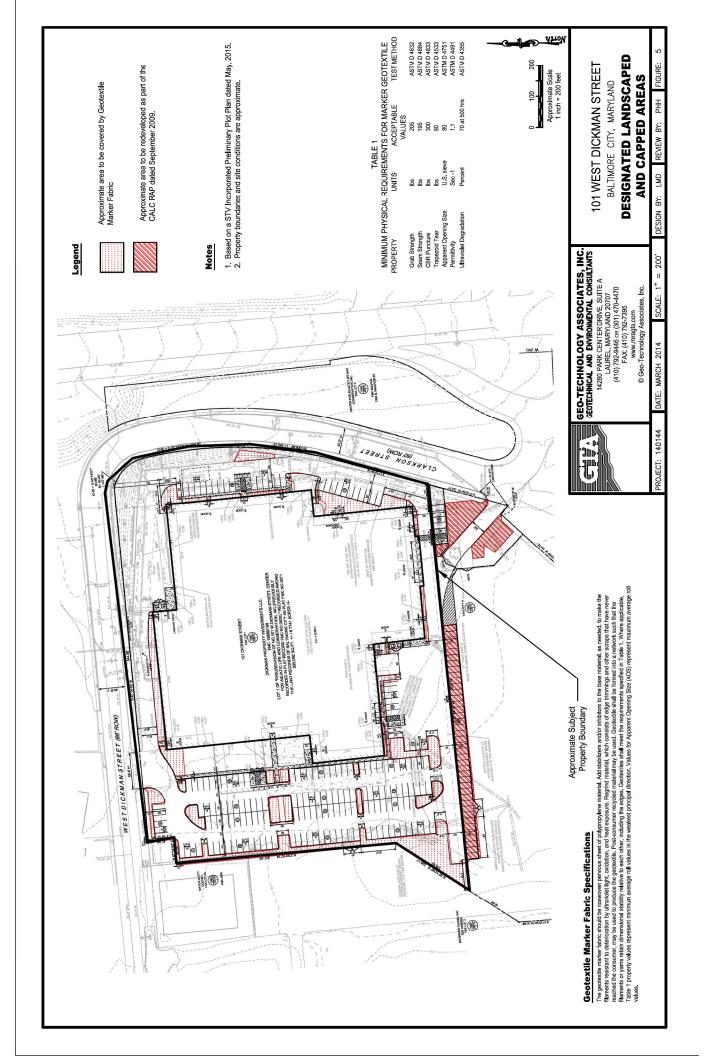
SAMPLE LOCATION PLAN

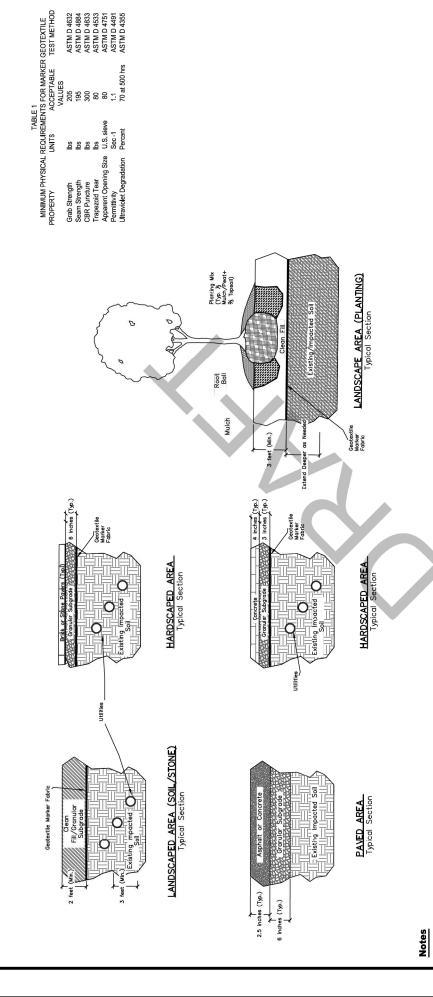
DATE: APRIL 2015 PROJECT: 140144

SCALE: 1" = 120

DESIGN BY: LMD

FIGURE: REVIEW BY: PHH





purposes only and are subject to final design.
4. Granular subgrade beneath asphalt/concrete

3. Details are provided for informational 1. Depth/width of utility trench will vary. 2. Details are not for construction.

may include MDE approved clean stone/fill.

Geotextile Marker Fabric Specifications

to make the filaments resistant to deterioration by utraviolet light, oxidation, and heat exposure. Regrind material, which consists of edge trimmings and other scraps that have never reached the consumer, may be used to produce the geotextile. Post-consumer recycled material may be used. Geotextile shall be The geotextile marker fabric should be nonwoven pervious sheet of polypropylene material. Add stabilizers and/or inhibitors to the base material, as needed, formed into a network such that the filaments or yams retain dimensional stability relative to each other, including the edges. Geotaxtiles shall meet the requirements specified in Table 1. Where applicable, Table 1 property values represent minimum average roll values in the weakest principal direction.

Values for Apparent Opening Size (AOS) represent maximum average roll values.



GEO-TECHNOLOGY ASSOCIATES, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

14280 PARK CENTER DRIVE, SUITE A LAUREL, MARYLAND 20707 (410) 792-9446 OR (301) 470-4470 FAX: (410) 792-7395 © Geo-Technology Associates, Inc. www.mragta.com

101 WEST DICKMAN STREET BALTIMORE CITY, MARYLAND

CAPPING DETAILS

DESIGN BY: LMD REVIEW BY: PHH FIGURE: 6

NOT TO SCALE

DATE: APRIL 2015

PROJECT: 140144

APPENDIX C

TABLES

Table 1 Soil Analysis Results Summary

	Sample Id	lentification	Comparison Values (mg/kg)		
Analyte	GTA-1 (Composite)	GTA-Soil DUP	NRCS	ATC Eastern	
SVOCs					
Benzo(a)anthrancene	2.0	0.36	3.9	NA	
Benzo(a)pyrene		0.36	0.39	NA	
Benzo(b)fluoranthene	2.6	0.6	3.9	NA	
Chrysene	2.0	0.4	390	NA	
Fluoranthene	3.9	0.72	4,100	NA	
Indeno(1,2,3,-cd)pyrene		0.2	3.9	NA	
Phenanthrene	2.9	0.44	31,000	NA	
Pyrene	3.5	0.66	3,100	NA	
Priority Pollutant Metals					
Antimony	14		41	6.0	
Arsenic	8.7	8	1.9	3.6	
Chromium	45	35	310	28	
Copper	47	59	4,100	12	
Lead	160	170	1,000	45	
Mercury	0.25	0.26	31	0.51	
Nickel	24	23	2,000	13	
Zinc	800	650	31,000	63	

Notes:

Samples collected on October 2, 2014

Results in milligrams per kilogram (mg/kg), or parts per million (ppm)

Only detected compounds shown

-- = Not detected at or above the laboratory's reporting limit

NA = Not applicable

MDE = Maryland Department of the Environment

NRCS = MDE Non-Residential Cleanup Standards for soil

ATC = Anticipated Typical Concentrations/Reference Levels for soils

in Eastern Maryland (MDE Interim Final Guidance Update No. 2.1, June 2008)

Shaded and bold values represent exceedance of MDE NRCS and/or ATC

SVOCs = Semivolatile Organic Compounds



Page 1 of 1

Soil Vapor Analysis Results Summary

0.0
- 1
!
0

Notes:

Samples collected on October 3, 2014

Results expressed in micrograms per cubic meter $(\mu g/m^3)$

Only detected compounds are shown

NE = No published guidance value

-- = Not detected at or above the laboratory's reporting limit
RSL = Regional Screening Level, from USEPA Region III Regional Screening Level Summary Table, May 2014
MDE Screening Values = Values published in the September 2012 Vapor Intrusion Fact Sheet, updated using USEPA's May 2014 RSL tables.

VOCs = Volatile Organic Compounds

Non-carcinogens are expressed with hazard index (HI) = 1.0

APPENDIX D EXAMPLE CAP INSPECTION FORM

CAP INSPECTION FORM

Location:					Date/Tim	e:		
Inspector:					Weath	er:		
		PAVEMENT						
Overall Condition	TAVEMENT							
		Specific Areas of	Note (use P	CI, below, and att	tach sketches	/ photographs, as	needed)	
	Are	ea	PCI		Comments			
			Pave	ment Condition	Index (PCI)			
Response?	PCI	Characterization						
	1	New, crack-free surf			r, smooth texture			
Optional	2	Oxidation has starte			_		elop. Dark gray color.	
	3	Oxidation in advanced state				ks are longer and w	<u> </u>	
	4	Oxidation complete				Crack area ¼" wide and crack lines have found base faults.		
	5	Moisture penetrating material (stone and			Texture of surface becoming rough. Preventive maintenance.			
	6	Cracks widen and jo	-		Cracks and shrinkage evident at curb and gutter lines.			
<u>Required</u>	7	Potholes develop in	low spots.		Gatoring areas begin to break up. Overall texture very rough.			
	8	Potholes developing			Pavement breaking up.			
	9	Heaving due to excessive moisture in base.			Distorts entire surface.			
	10	General breakup of	eneral breakup of surface.					
			S	IDEWALKS/	CURBS			
			Sidewa	lks		Cur	bs and Gutters	
Overall Condition					,			
Check all that apply		□ Sound□ Deteriorated				Sound Deteriorated	□ Cracked□ Root Intrusion	
Other C	omments							
			LA	ANDSCAPED	AREAS			
Overall (Condition							
Check all that apply		☐ Sound ☐ E	rosion	☐ Healthy Plai	nt Condition	☐ Mortality	☐ Animal Burrows	
Trees		☐ Healthy ☐ F	Poor Health	☐ Dead	☐ Fallen	☐ Other		
Shrubs		· · · · · · · · · · · · · · · · · · ·	Poor Health	□ Dead	☐ Fallen	□ Other		
Vent Risers and		☐ Good Condition	□ Crack	ed □ Broken/	Damaged	 □ Other		
Piping at Light Poles RESPONSE ACTIONS								
			K	ESPUNSE A	CHONS			
Respons	es Requir	ed						
Work Completed (Description, Date, Contractor, etc.)		te,						
List Attached Photographs/Sketches								

APPENDIX E ZONING CERTIFICATION