ARM Group LLC
Engineers and Scientists

April 7, 2020

Ms. Barbara Brown
Project Coordinator
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

Re: Parcel A4 Phase II Investigation Report
(Revision 3) – Minor Update
Transmittal Letter
Tradepoint Atlantic
Sparrows Point, MD 21219

Dear Ms. Brown:

On behalf of EnviroAnalytics Group, LLC (EAG), ARM Group LLC (ARM) is providing this Transmittal Letter to document minor updates to the previous submission of the Phase II Investigation Report (Revision 3 dated December 20, 2019) for Parcel A4 of the Tradepoint Atlantic property located in Sparrows Point, Maryland. As described in the previous submission, analytical soil data associated with location A4-013-SB was removed from the Screening Level Risk Assessment (SLRA) due to the cadmium excavation work that was performed in October 2019 at that location. The United States Environmental Protection Agency (USEPA) provided a single comment via email on March 12, 2020, requesting the A4-013-SB soil data be removed from the data summary tables. Upon further correspondence between the USEPA and EAG on March 20, 2020 the original comment was amended to specify that the A4-013-SB data would be highlighted and marked with a new footnote in the data summary tables (rather than deleting it) to indicate that it was removed during the cadmium excavation.

No revisions were required in the Phase II Investigation Report text; therefore, the revision number is not being adjusted at this time. Hard copy replacement pages for **Table 6** and **Table 7** with the specified highlighting and footnote are provided for incorporation into the Parcel A4 Phase II Investigation Report (Revision 3). The enclosed CD provides the electronic attachments and a compiled PDF of the entire report with the inserted replacement pages.

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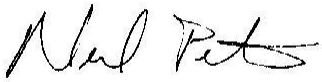
If you have any questions, or if we can provide any additional information at this time, please do not hesitate to contact ARM Group LLC at 410-290-7775.

Respectfully Submitted,
ARM Group LLC



Taylor R. Smith, P.E.
Project Engineer

T. Neil Peters, P.E.
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TABLES

Table 6
Summary of Organics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-001-SB-1	A4-001-SB-5	A4-002-SB-1	A4-002-SB-5	A4-002-SB-10	A4-003-SB-1	A4-003-SB-7.5	A4-003-SB-10	A4-004-SB-1	A4-004-SB-5	A4-005-SB-1	A4-005-SB-5	A4-005-SB-10	A4-006-SB-1
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	0.0055 U	0.0046 U	0.0052 U	0.0046 U	N/A-M	0.0045 U	0.0048 U	N/A-M	0.0044 U	0.0051 U	0.0048 U	0.0051 U	N/A	0.0048 U
2-Butanone (MEK)	mg/kg	190,000	**0.0035 J**	0.0091 U	**0.0045 J**	**0.0092 J**	N/A-M	**0.0028 J**	**0.059**	N/A-M	0.0088 U	0.01 U	**0.012**	**0.016**	N/A	**0.0042 J**
2-Hexanone	mg/kg	1,300	0.011 U	0.0091 U	0.01 U	0.0092 U	N/A-M	0.0089 U	0.0096 U	N/A-M	0.0088 U	0.01 U	0.0096 U	0.01 U	N/A	0.0097 U
Acetone	mg/kg	670,000	**0.028 J**	**0.023 J**	**0.039 J**	**0.057 J**	N/A-M	**0.037 J**	**0.065 J**	N/A-M	**0.013 J**	**0.072 J**	**0.074 J**	**0.11 J**	N/A	**0.042 J**
Benzene	mg/kg	5.1	**0.002 J**	0.0046 U	0.0052 U	**0.0013 J**	N/A-M	0.0045 U	**0.027**	N/A-M	0.0044 U	**0.012**	0.0048 U	**0.0036 J**	N/A	0.0048 U
Cyclohexane	mg/kg	27,000	0.011 U	0.0091 U	0.01 U	0.0092 U	N/A-M	0.0089 U	**0.052**	N/A-M	0.0088 U	**0.0026 J**	0.0096 U	0.01 U	N/A	0.0097 U
Ethylbenzene	mg/kg	25	0.0055 U	0.0046 U	0.0052 U	**0.00051 J**	N/A-M	0.0045 U	**0.0065**	N/A-M	0.0044 U	**0.012**	0.0048 U	0.0051 U	N/A	0.0048 U
Isopropylbenzene	mg/kg	9,900	0.0055 U	0.0046 U	0.0052 U	0.0046 U	N/A-M	0.0045 U	**0.0012 J**	N/A-M	0.0044 U	**0.067**	0.0048 U	0.0051 U	N/A	0.0048 U
Methyl Acetate	mg/kg	1,200,000	0.055 U	0.046 U	0.052 U	0.046 U	N/A-M	0.045 U	0.048 U	N/A-M	0.044 U	0.051 U	0.048 U	0.051 U	N/A	0.048 U
Methylene Chloride	mg/kg	1,000	**0.0036 J**	**0.0057**	**0.0031 J**	0.0046 U	N/A-M	**0.0024 J**	**0.0021 J**	N/A-M	**0.0034 J**	**0.0032 J**	0.0048 U	0.0051 U	N/A	**0.0023 J**
Toluene	mg/kg	47,000	**0.0015 J**	0.0046 U	**0.00049 J**	**0.0023 J**	N/A-M	**0.00049 J**	**0.02**	N/A-M	**0.00057 J**	**0.0089**	0.0048 U	**0.0018 J**	N/A	**0.0007 J**
Trichloroethene	mg/kg	6	0.0055 U	0.0046 U	0.0052 U	0.0046 U	N/A-M	0.0045 U	0.0048 U	N/A-M	0.0044 U	0.0051 U	0.0048 U	0.0051 U	N/A	0.0048 U
Xylenes	mg/kg	2,800	0.016 U	0.014 U	0.016 U	**0.0025 J**	N/A-M	0.013 U	**0.0066 J**	N/A-M	0.013 U	**0.012 J**	0.014 U	0.015 U	N/A	0.015 U
Semi-Volatile Organic Compounds*																
1,1-Biphenyl	mg/kg	200	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 U	**1.5**	**0.51**	0.075 U	0.077 U	**0.083**	**0.21**	0.08 U	0.075 U
2,4-Dimethylphenol	mg/kg	16,000	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 UJ	**0.095**	**0.024 J**	0.075 R	0.077 U	0.074 R	**0.035 J**	0.08 U	0.075 U
2,6-Dinitrotoluene	mg/kg	1.5	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	**0.043 J**	0.08 U	0.081 U	0.075 U	0.077 U	0.074 U	0.075 U	0.08 U	0.075 U
2-Chloronaphthalene	mg/kg	60,000	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 U	0.08 U	0.081 U	0.075 U	0.077 U	0.074 U	0.075 U	0.08 U	0.075 U
2-Methylnaphthalene	mg/kg	3,000	**0.017**	**0.0064 J**	**0.015**	0.15 U	N/A-M	**0.0046 J**	**0.011**	N/A-M	0.0072 U	**0.19**	**0.0037 J**	**0.17**	0.008 U	**0.041**
2-Methylphenol	mg/kg	41,000	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 UJ	**0.11**	**0.025 J**	0.075 R	0.077 U	0.074 R	**0.023 J**	0.08 U	0.075 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.14 U	0.15 U	0.14 U	0.16 U	0.14 UJ	**0.55**	**0.13 J**	0.15 R	0.15 U	0.15 R	**0.021 J**	0.16 U	0.15 U
Acenaphthene	mg/kg	45,000	**0.01**	**0.0043 J**	**0.0067 J**	0.15 U	N/A-M	0.0073 U	0.0073 U	N/A-M	0.0072 U	**0.052**	0.0074 U	**0.16**	0.008 U	**0.1**
Acenaphthylene	mg/kg	45,000	**0.0061 J**	**0.0029 J**	**0.011**	0.15 U	N/A-M	0.0073 U	**0.026**	N/A-M	0.0072 U	**0.0056 J**	0.0074 U	**0.22**	0.008 U	**0.077**
Acetophenone	mg/kg	120,000	0.073 U	0.071 U	0.075 U	**0.038 J**	0.08 U	**0.11**	**0.076 J**	**0.03 J**	0.075 U	0.077 U	**0.028 J**	0.075 U	0.08 U	0.075 U
Anthracene	mg/kg	230,000	**0.024**	**0.021**	**0.023**	0.15 U	N/A-M	**0.0052 J**	**0.053**	N/A-M	0.0072 U	**0.074**	**0.0031 J**	**1.1**	0.008 U	**0.39**
Benz[a]anthracene	mg/kg	2.9	**0.15**	**0.056**	**0.097**	**0.14 J**	N/A-M	**0.038**	**0.25**	N/A-M	**0.0029 J**	**0.13**	**0.0089**	**4.4**	**0.0036 J**	**1.7**
Benzaldehyde	mg/kg	120,000	0.073 R	0.071 R	0.075 R	**0.045 J**	**0.15 J**	**0.064 J**	0.08 R	**0.1 J**	0.075 R	0.077 R	0.074 R	**0.1 J**	0.08 UJ	0.075 R
Benzo[a]pyrene	mg/kg	0.29	**0.21**	**0.049**	**0.1**	**0.15 J**	N/A-M	**0.029**	**0.24**	N/A-M	0.0072 U	0.077 U	**0.0058 J**	**3.6**	**0.0028 J**	**1.7**
Benzo[b]fluoranthene	mg/kg	2.9	**0.38**	**0.073**	**0.16**	**0.32**	N/A-M	**0.16**	**0.49**	N/A-M	**0.0068 J**	**0.18**	**0.023**	**6.1**	**0.0061 J**	**2.2**
Benzo[g,h,i]perylene	mg/kg		**0.098**	**0.033**	**0.097**	**0.074 J**	N/A-M	**0.048**	**0.2**	N/A-M	**0.0027 J**	**0.097**	**0.0095**	**1.8**	**0.0021 J**	**0.68**
Benzo[k]fluoranthene	mg/kg	29	**0.12**	**0.042**	**0.094**	**0.13 J**	N/A-M	**0.13**	**0.16**	N/A-M	**0.0058 J**	**0.08**	**0.0071 J**	**2.4**	**0.002 J**	**0.81**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.073 UJ	0.071 U	0.075 U	**0.24 J**	0.08 UJ	0.072 U	0.8 U	0.081 UJ	0.075 U	0.077 U	0.074 UJ	0.075 U	0.08 U	0.075 U
Carbazole	mg/kg		**0.046 J**	0.071 U	**0.018 J**	**0.031 J**	0.08 U	0.072 U	**16**	**3**	0.075 U	0.077 U	**0.078**	**0.35**	0.08 U	**0.11**
Chrysene	mg/kg	290	**0.18**	**0.062**	**0.12**	**0.2**	N/A-M	**0.088**	**0.28**	N/A-M	**0.003 J**	**0.24**	**0.019**	**4.3**	**0.0026 J**	**1.8**
Dibenz[a,h]anthracene	mg/kg	0.29	**0.041**	**0.012**	**0.033**	0.15 U	N/A-M	**0.017**	**0.086**	N/A-M	0.0072 U	0.077 U	0.0074 U	**0.81**	0.008 U	**0.31**
Diethylphthalate	mg/kg	660,000	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 U	0.08 U	0.081 U	0.075 U	0.077 U	0.074 U	0.075 U	0.08 U	0.075 U
Di-n-butylphthalate	mg/kg	82,000	0.073 U	0.071 U	0.075 U	0.072 U	**0.12**	0.017 B	0.8 U	0.081 U	0.075 U	0.077 U	0.029 B	0.075 U	0.08 U	0.075 U
Di-n-ocytlphthalate	mg/kg	8,200	0.073 UJ	0.071 U	0.075 U	0.072 UJ	**0.027 J**	0.072 U	0.8 U	0.081 UJ	0.075 U	0.077 U	0.074 UJ	0.075 U	0.08 U	0.075 U
Fluoranthene	mg/kg	30,000	**0.19**	**0.1**	**0.14**	**0.3**	N/A-M	**0.1**	**0.55**	N/A-M	**0.0075**	**0.47**	**0.021**	**7.9**	**0.0051 J**	**3**
Fluorene	mg/kg	30,000	**0.0061 J**	**0.0047 J**	**0.0041 J**	**0.017 J**	N/A-M	**0.00082 J**	**0.0069 J**	N/A-M	0.0072 U	**0.063**	0.0074 U	**0.19**	0.008 U	**0.079**
Indeno[1,2,3-c,d]pyrene	mg/kg	2.9	**0.11**	**0.032**	**0.094**	0.15 U	N/A-M	**0.047**	**0.22**	N/A-M	0.0072 U	0.077 U	**0.0069 J**	**2.1**	**0.0019 J**	**0.73**
Naphthalene	mg/kg	17	**0.012**	**0.0087**	**0.024**	0.15 U	N/A-M	**0.0098**	**0.033**	N/A-M	0.0027 B	**0.18**	**0.0085**	**0.34**	**0.0015 J**	**0.067**
N-Nitrosodiphenylamine	mg/kg	470	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 U	0.8 U	0.081 U	0.075 U	0.077 U	0.074 U	0.075 U	0.08 U	0.075 U
Phenanthrene	mg/kg		**0.091**	**0.059**	**0.069**	0.15 U	N/A-M	**0.047**	**0.22**	N/A-M	0.0072 U	**0.3**	**0.016**	**3.5**	**0.0035 J**	**1.3**
Phenol	mg/kg	250,000	0.073 U	0.071 U	0.075 U	0.072 U	0.08 U	0.072 UJ	**0.99**	**0.23**	0.075 R	0.077 U	0.074 R	0.075 U	0.08 U	0.075 U
Pyrene	mg/kg	23,000	**0.16**	**0.085**	**0.11**	**0.31**	N/A-M	**0.084**	**0.36**	N/A-M	**0.0047 J**	**0.44**	**0.018**	**6.3**	**0.0044 J**	**2.6**
PCBs																
Aroclor 1254	mg/kg	0.97	0.019 U	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	0.018 U	N/A	0.018 U	N/A	N/A	0.088 U
Aroclor 1260	mg/kg	0.99	**0.0089 J**	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	0.018 U	N/A	0.018 U	N/A	N/A	0.088 U
PCBs (total)	mg/kg	0.97	0.13 U	N/A	0.12 U	N/A	N/A-M	0.13 U	N/A	N/A-M	0.13 U	N/A	0.13 U	N/A	N/A	0.62 U
TPH/Oil and Grease																
Diesel Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A-M	**33.4**	**22.1**	N/A-M	**13.1**	**2,310**	N/A	N/A	N/A	N/A
Gasoline Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A-M	9.6 U	**7.1 J**	N/A-M	9.2 U	**162**	N/A	N/A	N/A	N/A
Oil and Grease	mg/kg	6,200	**541**	**557**	**787**	**17,600**	N/A-M	**355**	**718**	N/A-M	**734**	**5,590**	**303**	**613**	N/A	**547**

Detections in bold
N/A: This parameter was not analyzed for this sample
N/A-M: This parameter was not analyzed for this sample based on the scope of the SVOC Microwave method resampling event
*PAH compounds were analyzed via SIM
Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The quantitative/detection limit may be higher than reported.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
J: The positive result for this analyte is a quantitative estimate.
R: The result for this analyte is unreliable.

Table 6
Summary of Organics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-006-SB-6	A4-007-SB-1	A4-007-SB-5	A4-008-SB-1	A4-008-SB-5	A4-009-SB-1	A4-009-SB-5	A4-010-SB-1	A4-010-SB-5	A4-010-SB-10	A4-011-SB-1	A4-011-SB-5	A4-012-SB-1	A4-012-SB-5
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	0.0047 U	0.0046 U	0.0055 U	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	0.0044 U	0.0059 U	**0.0021 J**	0.0052 U
2-Butanone (MEK)	mg/kg	190,000	**0.0083 J**	0.0091 U	0.011 U	0.0097 U	0.0096 U	**0.022**	0.0093 U	0.0096 U	0.0096 U	N/A	**0.0043 J**	**0.0037 J**	**0.0041 J**	**0.0058 J**
2-Hexanone	mg/kg	1,300	0.0093 U	0.0091 U	0.011 U	0.0097 U	0.0096 U	0.0096 U	0.0093 U	0.0096 U	0.0096 U	N/A	0.0087 U	0.012 U	0.01 U	0.01 U
Acetone	mg/kg	670,000	**0.061 J**	0.0091 R	**0.055 J**	0.0097 R	0.0096 R	0.48 U	**0.07 J**	**0.17 J**	0.0096 R	N/A	**0.029 J**	**0.046 J**	**0.036 J**	**0.046 J**
Benzene	mg/kg	5.1	0.0047 U	0.0046 U	**0.0094**	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	0.0044 U	0.0059 U	0.005 U	0.0052 U
Cyclohexane	mg/kg	27,000	0.0093 U	0.0091 U	0.011 U	0.0097 U	0.0096 U	0.0096 U	0.0093 U	0.0096 U	0.0096 U	N/A	0.0087 U	**0.00072 J**	0.01 UJ	**0.0017 J**
Ethylbenzene	mg/kg	25	0.0047 U	0.0046 U	0.0055 U	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	**0.005 J**	0.0059 U	0.005 U	0.0052 U
Isopropylbenzene	mg/kg	9,900	0.0047 U	0.0046 U	0.0055 U	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	0.0044 U	0.0059 U	0.005 U	0.0052 U
Methyl Acetate	mg/kg	1,200,000	0.047 U	0.046 R	0.055 R	0.048 R	0.048 R	0.048 R	0.046 R	0.048 R	0.048 R	N/A	0.044 U	0.059 U	0.05 U	0.052 U
Methylene Chloride	mg/kg	1,000	**0.0036 J**	0.0046 U	0.0055 U	0.0048 U	0.0048 U	0.0048 U	0.0046 U	**0.0037 J**	0.0048 U	N/A	0.0044 U	0.0059 U	0.005 U	0.0052 U
Toluene	mg/kg	47,000	**0.00082 J**	0.0046 U	**0.0038 J**	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	**0.08**	0.0059 U	0.005 U	0.0052 U
Trichloroethene	mg/kg	6	0.0047 U	0.0046 U	0.0055 U	0.0048 U	0.0048 U	0.0048 U	0.0046 U	0.0048 U	0.0048 U	N/A	0.0044 U	0.0059 U	0.005 U	0.0052 U
Xylenes	mg/kg	2,800	0.014 U	0.014 U	0.016 U	0.015 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	N/A	**0.028 J**	0.018 U	0.015 U	0.016 U
Semi-Volatile Organic Compounds*																
1,1-Biphenyl	mg/kg	200	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.026 J**	0.087 U	0.071 U	**0.019 J**	0.14 U	**0.079 J**
2,4-Dimethylphenol	mg/kg	16,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.073 J**	0.087 U	0.071 R	0.079 U	0.14 UJ	0.079 U
2,6-Dinitrotoluene	mg/kg	1.5	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 U	0.079 U
2-Chloronaphthalene	mg/kg	60,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 U	0.079 U
2-Methylnaphthalene	mg/kg	3,000	**0.056 J**	0.071 U	0.0093 U	**0.076 J**	0.0079 U	**0.0074 J**	0.0072 U	0.0078 U	**0.084**	**0.0036 J**	0.007 U	**0.051**	0.14 U	**0.11**
2-Methylphenol	mg/kg	41,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.016 J**	0.087 U	0.071 R	0.079 U	0.14 UJ	0.079 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.15 U	0.17 U	0.14 U	0.15 U	0.15 U	0.15 U	0.15 U	**0.13 J**	0.17 U	0.14 R	0.16 U	0.29 UJ	**0.036 J**
Acenaphthene	mg/kg	45,000	0.14 U	0.071 U	0.0093 U	0.14 U	0.0079 U	0.0081 U	0.0072 U	**0.011**	**1**	**0.048**	0.007 U	0.0072 U	0.14 U	**0.092**
Acenaphthylene	mg/kg	45,000	0.14 U	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.014**	0.0072 U	0.0078 U	0.071 U	0.0086 U	0.007 U	**0.0096**	0.14 U	**0.2**
Acetophenone	mg/kg	120,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.019 J**	0.087 U	0.071 U	**0.031 J**	0.14 U	**0.037 J**
Anthracene	mg/kg	230,000	**0.063 J**	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.0078 J**	0.0072 U	**0.0084**	**0.44**	**0.021**	0.007 U	**0.016**	0.14 U	**0.5**
Benz[a]anthracene	mg/kg	2.9	**0.27**	**0.06 J**	0.0093 U	**0.063 J**	0.0079 U	**0.047**	0.0072 U	**0.059**	**3**	**0.13**	**0.0026 J**	**0.043**	**0.31**	**1.5**
Benzaldehyde	mg/kg	120,000	0.075 R	0.075 R	0.083 R	0.072 R	0.073 R	0.074 R	0.074 R	0.074 R	0.074 R	0.087 UJ	0.071 R	**0.057 J**	0.14 R	**0.054 J**
Benzo[a]pyrene	mg/kg	0.29	**0.25**	0.071 U	0.0093 U	**0.068 J**	0.0079 U	**0.059**	0.0072 U	**0.098**	**6.4**	**0.32**	0.007 U	**0.059**	**0.23**	**1.5**
Benzo[b]fluoranthene	mg/kg	2.9	**0.43**	**0.098**	0.0093 U	**0.18**	0.0079 U	**0.12**	0.0072 U	**0.12**	**8.2**	**0.39**	**0.011**	**0.12**	**0.45**	**2.5**
Benzo[g,h,i]perylene	mg/kg		**0.19**	**0.033 J**	0.0093 UJ	**0.04 J**	0.0079 UJ	**0.024 J**	0.0072 UJ	**0.085 J**	**5.2 J**	**0.24**	**0.0039 J**	**0.068**	**0.16**	**0.85**
Benzo[k]fluoranthene	mg/kg	29	**0.18**	**0.045 J**	0.0093 U	**0.082 J**	0.0079 U	**0.059**	0.0072 U	**0.052**	**3.2**	**0.13**	**0.009**	**0.042**	**0.17**	**1.3**
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.075 U	0.075 U	0.083 U	0.072 UJ	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 UJ	0.079 UJ
Carbazole	mg/kg		**0.021 J**	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.43**	0.087 U	0.071 U	0.079 U	0.14 U	**0.27 J**
Chrysene	mg/kg	290	**0.32**	**0.05 J**	0.0093 U	**0.15**	0.0079 U	**0.059**	0.0072 U	**0.063**	**3.1**	**0.13**	**0.0072**	**0.07**	**0.28**	**1.5**
Dibenz[a,h]anthracene	mg/kg	0.29	**0.072 J**	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.01**	0.0072 U	**0.029**	**1.8**	**0.07**	0.007 U	**0.026**	0.14 U	**0.39**
Diethylphthalate	mg/kg	660,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 U	0.079 U
Di-n-butylphthalate	mg/kg	82,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 U	0.079 U
Di-n-ocytlphthalate	mg/kg	8,200	0.075 U	0.075 U	0.083 U	0.072 UJ	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 UJ	0.079 U	0.14 UJ	0.079 UJ
Fluoranthene	mg/kg	30,000	**0.47**	0.071 U	0.0093 U	**0.07 J**	0.0079 U	**0.072**	0.0072 U	**0.071**	**3.1**	**0.15**	**0.012**	**0.071**	**0.46**	**2.1**
Fluorene	mg/kg	30,000	**0.031 J**	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.0021 J**	0.0072 U	**0.0025 J**	**0.17**	**0.0096**	0.007 U	**0.0024 J**	0.14 U	**0.12**
Indeno[1,2,3-c,d]pyrene	mg/kg	2.9	**0.16**	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.028**	0.0072 UJ	**0.081**	**5.4**	**0.23**	0.007 U	**0.06**	0.14 U	**1**
Naphthalene	mg/kg	17	0.14 U	0.071 U	0.0015 B	0.14 U	0.0079 U	**0.014**	0.0072 U	0.0047 B	**0.21**	**0.014**	0.0023 B	**0.036**	0.14 U	**0.19**
N-Nitrosodiphenylamine	mg/kg	470	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	0.074 U	0.087 U	0.071 U	0.079 U	0.14 U	0.079 U
Phenanthrene	mg/kg		**0.23**	0.071 U	0.0093 U	0.14 U	0.0079 U	**0.028**	0.0072 U	**0.024**	**1.3**	**0.069**	0.007 U	**0.071**	0.14 U	**1.3**
Phenol	mg/kg	250,000	0.075 U	0.075 U	0.083 U	0.072 U	0.073 U	0.074 U	0.074 U	0.074 U	**0.046 J**	0.087 U	0.071 R	0.079 U	0.14 UJ	**0.031 J**
Pyrene	mg/kg	23,000	**0.47**	**0.06 J**	0.0093 U	**0.09 J**	0.0079 U	**0.063**	0.0072 U	**0.07**	**2.9**	**0.14**	**0.0065 J**	**0.06**	**0.43**	**1.9**
PCBs																
Aroclor 1254	mg/kg	0.97	N/A	0.018 U	N/A	0.18 U	N/A	0.02 U	N/A	0.019 U	N/A	N/A	0.018 U	N/A	0.018 U	N/A
Aroclor 1260	mg/kg	0.99	N/A	0.018 U	N/A	0.18 U	N/A	0.02 U	N/A	0.019 U	N/A	N/A	0.018 U	N/A	0.018 U	N/A
PCBs (total)	mg/kg	0.97	N/A	0.12 U	N/A	1.3 U	N/A	0.14 U	N/A	0.13 U	N/A	N/A	0.12 U	N/A	0.12 U	N/A
TPH/Oil and Grease																
Diesel Range Organics	mg/kg	6,200	N/A	**24.1**	9.1 U	**428**	7.8 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasoline Range Organics	mg/kg	6,200	N/A	9.2 U	11.2 U	9.5 U	9.1 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	mg/kg	6,200	**2,300**	**614**	**1,720**	**12,400**	**348**	**501**	**317**	**404**	**239**	N/A	**549**	**598**	**1,290**	**567**

Detections in bold
N/A: This parameter was not analyzed for this sample
N/A-M: This parameter was not analyzed for this sample based on the scope of the SVOC Microwave method resampling event
*PAH compounds were analyzed via SIM
Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The quantitative/detection limit may be higher than reported.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
J: The positive result for this analyte is a quantitative estimate.
R: The result for this analyte is unreliable.

Table 6
Summary of Organics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-012-SB-10	A4-013-SB-1	A4-013-SB-4	A4-014-SB-1	A4-014-SB-7	A4-015-SB-1	A4-015-SB-5	A4-016-SB-1	A4-016-SB-5	A4-016-SB-10	A4-017-SB-1	A4-017-SB-5	A4-018-SB-1	A4-018-SB-5
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	N/A-M	0.0087 UJ	0.007 U	0.0044 U	0.005 U	0.0063 U	0.0052 U	0.0054 U	0.0057 U	N/A	0.0047 U	0.0051 U	0.0049 U	0.005 U
2-Butanone (MEK)	mg/kg	190,000	N/A-M	0.017 U	**0.011 J**	**0.0082 J**	**0.0092 J**	**0.0075 J**	0.01 U	**0.0061 J**	0.011 U	N/A	**0.014**	0.01 U	0.0098 U	0.0099 U
2-Hexanone	mg/kg	1,300	N/A-M	0.017 U	0.014 U	0.0088 U	0.01 U	0.013 U	0.01 U	0.011 U	0.011 U	N/A	0.0095 U	0.01 U	0.0098 U	0.0099 U
Acetone	mg/kg	670,000	N/A-M	**0.081 J**	**0.069 J**	**0.085 J**	**0.059 J**	**0.051 J**	**0.01 J**	**0.044 J**	**0.029 J**	N/A	**0.076 J**	**0.011 J**	**0.044 J**	0.0099 R
Benzene	mg/kg	5.1	N/A-M	0.0087 U	**0.002 J**	0.0044 U	0.005 U	0.0063 U	0.0052 U	0.0054 U	0.0057 U	N/A	**0.0075**	0.0051 U	0.0049 U	0.005 U
Cyclohexane	mg/kg	27,000	N/A-M	0.017 UJ	**0.002 J**	0.0088 UJ	0.01 UJ	0.013 U	0.01 U	0.011 UJ	0.011 UJ	N/A	**0.0006 J**	0.01 U	0.0098 U	0.0099 U
Ethylbenzene	mg/kg	25	N/A-M	0.0087 U	0.007 U	0.0044 U	0.005 U	0.0063 U	0.0052 U	0.0054 U	0.0057 U	N/A	0.0047 U	0.0051 U	0.0049 U	0.005 U
Isopropylbenzene	mg/kg	9,900	N/A-M	0.0087 U	0.007 U	0.0044 U	0.005 U	0.0063 U	0.0052 U	0.0054 U	0.0057 U	N/A	0.0047 U	0.0051 U	0.0049 U	0.005 U
Methyl Acetate	mg/kg	1,200,000	N/A-M	0.087 U	0.07 U	0.044 U	**0.058**	0.063 U	0.052 U	0.054 U	0.057 U	N/A	0.047 U	0.051 U	0.049 R	0.05 R
Methylene Chloride	mg/kg	1,000	N/A-M	0.0087 U	0.007 U	0.0044 U	0.005 U	**0.003 J**	0.0052 U	0.0054 U	0.0057 U	N/A	**0.003 J**	0.0051 U	0.0049 U	0.005 U
Toluene	mg/kg	47,000	N/A-M	0.0087 U	0.0015 B	0.00075 B	0.0014 B	0.0063 U	0.0052 U	0.00074 B	0.0057 U	N/A	**0.0046 J**	0.0051 U	0.0049 U	0.005 U
Trichloroethene	mg/kg	6	N/A-M	0.0087 U	0.007 U	0.0044 U	0.005 U	**0.0018 J**	0.0052 U	0.0054 U	0.0057 U	N/A	0.0047 U	0.0051 U	0.0049 U	0.005 U
Xylenes	mg/kg	2,800	N/A-M	0.026 U	0.021 U	0.013 U	0.015 U	0.019 U	0.016 U	0.016 U	0.017 U	N/A	0.014 U	0.015 U	0.015 U	0.015 U
Semi-Volatile Organic Compounds*																
1,1-Biphenyl	mg/kg	200	**0.039 J**	0.075 U	0.073 U	**0.034 J**	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
2,4-Dimethylphenol	mg/kg	16,000	0.078 UJ	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 UJ	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
2,6-Dinitrotoluene	mg/kg	1.5	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
2-Chloronaphthalene	mg/kg	60,000	0.078 U	0.075 U	**0.024 J**	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
2-Methylnaphthalene	mg/kg	3,000	N/A-M	**0.027**	**0.14**	0.38 U	**0.014**	**0.026**	0.0083 U	**0.089**	**0.054**	N/A	**0.03**	**0.0013 J**	**0.042**	0.0082 U
2-Methylphenol	mg/kg	41,000	0.078 UJ	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 UJ	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.16 UJ	0.15 U	0.15 U	**0.022 J**	0.16 U	0.15 U	0.16 U	0.15 UJ	**0.022 J**	0.17 U	0.15 U	0.16 U	0.15 U	0.16 U
Acenaphthene	mg/kg	45,000	N/A-M	**0.033**	**0.011**	**0.049 J**	**0.0032 J**	**0.014**	0.0083 U	**0.052**	**0.26**	N/A	**0.11**	0.0079 U	**0.0086**	0.0082 U
Acenaphthylene	mg/kg	45,000	N/A-M	**0.023**	**0.092**	**0.18 J**	**0.0062 J**	**0.045**	0.0083 U	**0.053**	**0.051**	N/A	**0.013**	0.0079 U	**0.016**	0.0082 U
Acetophenone	mg/kg	120,000	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Anthracene	mg/kg	230,000	N/A-M	**0.024**	**0.14**	**0.49**	**0.013**	**0.13**	0.0083 U	**0.45**	**0.083**	N/A	**0.076**	**0.0021 J**	**0.021**	0.0082 U
Benz[a]anthracene	mg/kg	2.9	N/A-M	**0.094**	**0.63**	**2.2**	**0.038**	**0.63**	0.0083 U	**1.9**	**0.57**	N/A	**0.48**	**0.0043 J**	**0.1**	0.0082 U
Benzaldehyde	mg/kg	120,000	**0.018 J**	0.075 R	0.073 R	0.074 R	0.08 R	0.073 R	0.079 R	0.073 R	0.074 R	0.083 UJ	0.075 R	0.081 R	0.074 R	0.081 R
Benzo[a]pyrene	mg/kg	0.29	N/A-M	**0.12**	**0.48**	**2.1**	**0.041**	**0.52**	0.0083 U	**1.6**	**0.95**	**0.11 J**	**0.81**	**0.0026 J**	**0.14**	0.0082 U
Benzo[b]fluoranthene	mg/kg	2.9	N/A-M	**0.3**	**1.1**	**3.1**	**0.11**	**1.1**	**0.0009 J**	**3.7**	**1.5**	N/A	**1.2**	**0.0038 J**	**0.23**	0.0082 U
Benzo[g,h,i]perylene	mg/kg		N/A-M	**0.077**	**0.21**	**1.2**	**0.011**	**0.12**	0.0083 UJ	**0.48**	**0.35**	N/A	**0.28**	0.0079 U	**0.12 J**	0.0082 UJ
Benzo[k]fluoranthene	mg/kg	29	N/A-M	**0.083**	**1.4**	**1.3**	**0.099**	**0.47**	0.0083 U	**0.96**	**0.49**	N/A	**0.49**	**0.0023 J**	**0.083**	0.0082 U
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Carbazole	mg/kg		**0.16**	**0.027 J**	0.073 U	**0.47**	0.08 U	0.073 U	0.079 U	**0.024 J**	**0.058 J**	0.083 U	**0.032 J**	0.081 U	0.074 U	0.081 U
Chrysene	mg/kg	290	N/A-M	**0.12**	**0.69**	**2.1**	**0.056**	**0.63**	**0.00064 J**	**2.2**	**0.57**	N/A	**0.46**	**0.0041 J**	**0.15**	0.0082 U
Dibenz[a,h]anthracene	mg/kg	0.29	N/A-M	**0.033**	**0.095**	**0.46**	**0.004 J**	**0.065**	0.0083 UJ	**0.31**	**0.2**	N/A	**0.13**	0.0079 U	**0.041**	0.0082 U
Diethylphthalate	mg/kg	660,000	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	**0.044 J**	0.081 U	0.074 U	0.081 U
Di-n-butylphthalate	mg/kg	82,000	0.078 U	0.075 U	0.021 B	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Di-n-ocytlphthalate	mg/kg	8,200	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Fluoranthene	mg/kg	30,000	N/A-M	**0.15**	**1.2**	**3.1**	**0.061**	**1**	**0.0017 J**	**2.9**	**0.66**	N/A	**0.51**	**0.0087**	**0.16**	0.0082 U
Fluorene	mg/kg	30,000	N/A-M	**0.0066 J**	**0.016**	**0.06 J**	**0.011**	**0.012**	0.0083 U	**0.052**	**0.038**	N/A	**0.023**	**0.0019 J**	**0.0071 J**	0.0082 U
Indeno[1,2,3-c,d]pyrene	mg/kg	2.9	N/A-M	**0.078**	**0.23**	**1.3**	**0.011**	**0.16**	0.0083 UJ	**0.69**	**0.45**	N/A	**0.32**	0.0079 U	**0.1**	0.0082 U
Naphthalene	mg/kg	17	N/A-M	**0.044**	**0.46**	**0.083 J**	**0.017**	**0.04**	0.0083 U	**0.22**	**0.14**	N/A	**0.057**	**0.003 J**	**0.028**	0.0082 U
N-Nitrosodiphenylamine	mg/kg	470	0.078 U	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 U	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Phenanthrene	mg/kg		N/A-M	**0.072**	**0.69**	**1.2**	**0.037**	**0.36**	**0.0012 J**	**1.6**	**0.27**	N/A	**0.24**	**0.0091**	**0.067**	0.0082 U
Phenol	mg/kg	250,000	0.078 UJ	0.075 U	0.073 U	0.074 U	0.08 U	0.073 U	0.079 U	0.073 UJ	0.074 U	0.083 U	0.075 U	0.081 U	0.074 U	0.081 U
Pyrene	mg/kg	23,000	N/A-M	**0.14**	**0.95**	**2.5**	**0.052**	**0.84**	**0.0015 J**	**2.5**	**0.68**	N/A	**0.48**	**0.0067 J**	**0.16**	0.0082 U
PCBs																
Aroclor 1254	mg/kg	0.97	N/A-M	0.019 U	N/A	0.093 U	N/A	0.018 U	N/A	0.19 U	N/A	N/A	0.018 U	N/A	0.018 U	N/A
Aroclor 1260	mg/kg	0.99	N/A-M	**0.044**	N/A	0.093 U	N/A	**0.055**	N/A	0.19 U	N/A	N/A	**0.027**	N/A	**0.036**	N/A
PCBs (total)	mg/kg	0.97	N/A-M	**0.044 J**	N/A	0.65 U	N/A	**0.055 J**	N/A	1.3 U	N/A	N/A	0.13 U	N/A	**0.036 J**	N/A
TPH/Oil and Grease																
Diesel Range Organics	mg/kg	6,200	N/A-M	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gasoline Range Organics	mg/kg	6,200	N/A-M	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	mg/kg	6,200	N/A-M	**469**	**1,240**	**663**	**1,760**	**417**	**252**	**595**	**472**	N/A	**773**	**285**	**645**	**573**

Detections in bold
N/A: This parameter was not analyzed for this sample
N/A-M: This parameter was not analyzed for this sample based on the scope of the SVOC Microwave method resampling event
*PAH compounds were analyzed via SIM
Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The quantitative/detection limit may be higher than reported.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
J: The positive result for this analyte is a quantitative estimate.
R: The result for this analyte is unreliable.
A4-013-SB has been excavated due to elevated levels of cadmium and is not included in the SLRA

Table 6
Summary of Organics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-019-SB-1	A4-019-SB-5	A4-020-SB-1	A4-020-SB-5	A4-021-SB-1	A4-021-SB-5	A4-022-SB-1	A4-022-SB-8	A4-022-SB-10	A4-023-SB-1	A4-023-SB-5	A4-023-SB-10	A4-024-SB-1	A4-024-SB-5
Volatile Organic Compounds																
1,2-Dichlorobenzene	mg/kg	9,300	0.0039 U	0.0049 U	0.0044 U	0.0048 U	0.0055 U	0.0051 U	0.0051 U	0.0059 UJ	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	0.0055 U
2-Butanone (MEK)	mg/kg	190,000	**0.0029 J**	0.0097 U	0.0087 U	0.0095 U	**0.0046 J**	**0.0035 J**	**0.0037 J**	**0.012**	N/A-M	0.012 U	**0.0032 J**	N/A-M	**0.005 J**	**0.0067 J**
2-Hexanone	mg/kg	1,300	0.0079 U	0.0097 U	0.0087 U	0.0095 U	0.011 U	0.01 U	0.01 U	0.012 U	N/A-M	0.012 U	0.016 U	N/A-M	0.0086 U	0.011 U
Acetone	mg/kg	670,000	**0.024 J**	**0.0079 J**	**0.037 J**	0.0095 R	**0.059 J**	**0.052 J**	**0.03 J**	**0.095 J**	N/A-M	**0.028 J**	**0.027 J**	N/A-M	**0.044 J**	**0.078 J**
Benzene	mg/kg	5.1	0.0039 U	0.0049 U	0.0044 U	0.0048 U	**0.0016 J**	0.0051 U	0.0051 U	0.0059 U	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	**0.002 J**
Cyclohexane	mg/kg	27,000	0.0079 U	0.0097 U	0.0087 U	0.0095 U	0.011 U	0.01 U	0.01 UJ	0.012 UJ	N/A-M	0.012 UJ	0.016 UJ	N/A-M	0.0086 U	**0.00065 J**
Ethylbenzene	mg/kg	25	0.0039 U	0.0049 U	0.0044 U	0.0048 U	0.0055 U	0.0051 U	0.0051 U	0.0059 U	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	0.0055 U
Isopropylbenzene	mg/kg	9,900	0.0039 U	0.0049 U	0.0044 U	0.0048 U	0.0055 U	0.0051 U	0.0051 U	0.0059 U	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	0.0055 U
Methyl Acetate	mg/kg	1,200,000	0.039 U	0.049 U	0.044 R	0.048 R	0.055 U	0.051 U	0.051 U	0.059 U	N/A-M	0.058 U	0.08 U	N/A-M	0.043 U	0.055 U
Methylene Chloride	mg/kg	1,000	**0.0028 J**	**0.0043 J**	0.0044 U	**0.0038 J**	**0.0032 J**	**0.0041 J**	0.0051 U	0.0059 U	N/A-M	0.0058 U	**0.0073 J**	N/A-M	**0.0026 J**	0.0055 U
Toluene	mg/kg	47,000	**0.00043 J**	0.0049 U	0.0044 U	0.0048 U	0.0055 U	**0.00055 J**	0.0011 B	0.0013 B	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	**0.00094 J**
Trichloroethene	mg/kg	6	0.0039 U	0.0049 U	0.0044 U	0.0048 U	0.0055 U	0.0051 U	0.0051 U	0.0059 U	N/A-M	0.0058 U	0.008 U	N/A-M	0.0043 U	0.0055 U
Xylenes	mg/kg	2,800	0.012 U	0.015 U	0.013 U	0.014 U	0.016 U	0.015 U	0.015 U	0.018 U	N/A-M	0.017 U	0.024 U	N/A-M	**0.0018 J**	0.016 U
Semi-Volatile Organic Compounds*																
1,1-Biphenyl	mg/kg	200	**0.022 J**	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	**0.2 J**	**0.42**	0.072 U	**0.06 J**	**0.038 J**	0.074 U	0.072 U
2,4-Dimethylphenol	mg/kg	16,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 UJ	0.087 UJ	0.072 U	0.078 U	0.078 R	0.074 R	0.072 U
2,6-Dinitrotoluene	mg/kg	1.5	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 U	0.087 U	0.072 U	0.078 U	0.078 U	0.074 U	0.072 U
2-Chloronaphthalene	mg/kg	60,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 U	0.087 U	0.072 U	0.078 U	0.078 U	0.074 U	0.072 U
2-Methylnaphthalene	mg/kg	3,000	**0.086**	0.0078 U	**0.0035 J**	0.008 U	**9.7**	0.0077 U	**0.01**	**0.029**	N/A-M	0.0072 U	**0.01**	N/A-M	**0.02**	**0.22**
2-Methylphenol	mg/kg	41,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 UJ	0.087 UJ	0.072 U	0.078 U	0.078 R	0.074 R	0.072 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.15 U	0.15 U	0.14 U	0.17 U	0.15 U	0.15 U	0.15 U	0.15 UJ	**0.025 J**	0.14 U	0.16 U	0.16 R	0.15 R	0.14 U
Acenaphthene	mg/kg	45,000	**0.056**	0.0078 U	0.0072 U	0.008 U	**3.5**	0.0077 U	**0.0077**	**0.028**	N/A-M	0.0072 U	0.0075 U	N/A-M	0.0074 U	**0.061**
Acenaphthylene	mg/kg	45,000	**0.14**	0.0078 U	0.0072 U	0.008 U	**6.1**	**0.02**	**0.042**	**0.015**	N/A-M	0.0072 U	**0.0063 J**	N/A-M	0.0074 U	**0.36**
Acetophenone	mg/kg	120,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	**0.025 J**	**0.057 J**	0.072 U	0.078 U	**0.025 J**	0.074 U	0.072 U
Anthracene	mg/kg	230,000	**0.15**	0.0078 U	**0.011**	0.008 U	**69.5**	**0.016**	**0.082**	**0.17**	N/A-M	0.0072 U	**0.014**	N/A-M	**0.0021 J**	**0.32**
Benz[a]anthracene	mg/kg	2.9	**0.56**	**0.0022 J**	**0.041**	0.008 U	**27.8**	**0.053**	**0.32**	**0.71**	N/A-M	**0.016**	**0.053**	N/A-M	**0.0097**	**1.1**
Benzaldehyde	mg/kg	120,000	0.074 R	0.075 R	0.071 R	0.085 R	0.075 R	0.076 R	0.073 R	**0.018 J**	**0.11 J**	0.072 R	0.078 R	**0.034 J**	0.074 R	0.072 R
Benzo[a]pyrene	mg/kg	0.29	**0.81**	**0.001 J**	**0.047**	0.008 U	**16.1**	**0.049**	**0.28**	**0.67**	N/A-M	**0.019**	**0.047**	N/A-M	**0.0082**	**1.1**
Benzo[b]fluoranthene	mg/kg	2.9	**2**	**0.0023 J**	**0.075**	0.008 U	**24.9**	**0.08**	**0.61**	**1.2**	N/A-M	**0.033**	**0.16**	N/A-M	**0.029**	**1.9**
Benzo[g,h,i]perylene	mg/kg		**0.22**	0.0078 U	**0.023 J**	0.008 UJ	**6.8**	**0.041**	**0.14**	**0.26**	N/A-M	**0.012**	**0.023**	N/A-M	**0.0099**	**0.59**
Benzo[k]fluoranthene	mg/kg	29	**0.53**	**0.00093 J**	**0.041**	0.008 U	**8.6**	**0.03**	**0.19**	**0.37**	N/A-M	**0.015**	**0.13**	N/A-M	**0.024**	**0.94**
bis(2-Ethylhexyl)phthalate	mg/kg	160	**0.13 J**	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 UJ	0.077 UJ	0.087 U	0.072 U	0.078 UJ	0.078 U	0.074 U	0.072 U
Carbazole	mg/kg		**0.028 J**	0.075 U	0.071 U	0.085 U	**0.054 J**	0.076 U	**0.062 J**	**0.34 J**	**0.21**	**0.022 J**	**0.21**	**0.42**	0.074 U	**0.021 J**
Chrysene	mg/kg	290	**0.57**	**0.0015 J**	**0.049**	0.008 U	**23.8**	**0.055**	**0.34**	**0.71**	N/A-M	**0.021**	**0.077**	N/A-M	**0.014**	**1.4**
Dibenz[a,h]anthracene	mg/kg	0.29	**0.092**	0.0078 U	**0.01**	0.008 U	**2.9**	**0.013**	**0.057**	**0.13**	N/A-M	0.0072 U	**0.01**	N/A-M	0.0074 U	**0.31**
Diethylphthalate	mg/kg	660,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 U	0.087 U	0.072 U	0.078 U	0.078 U	0.074 U	0.072 U
Di-n-butylphthalate	mg/kg	82,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.041 B	0.087 U	0.072 U	0.078 U	0.078 U	0.074 U	0.072 U
Di-n-ocytlphthalate	mg/kg	8,200	0.074 UJ	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 UJ	**0.021 J**	0.087 U	0.072 UJ	0.078 UJ	0.078 U	0.074 U	0.072 U
Fluoranthene	mg/kg	30,000	**0.69**	**0.0027 J**	**0.063**	0.008 U	**147**	**0.1**	**0.56**	**1.3**	N/A-M	**0.015**	**0.12**	N/A-M	**0.02**	**2**
Fluorene	mg/kg	30,000	**0.031**	0.0078 U	**0.0017 J**	0.008 U	**79.1**	**0.0065 J**	**0.013**	**0.027**	N/A-M	0.0072 U	**0.0024 J**	N/A-M	**0.00075 J**	**0.076**
Indeno[1,2,3-c,d]pyrene	mg/kg	2.9	**0.28**	0.0078 U	**0.026**	0.008 U	**8.1**	**0.04**	**0.15**	**0.32**	N/A-M	**0.011**	**0.023**	N/A-M	**0.0086**	**0.79**
Naphthalene	mg/kg	17	**0.25**	**0.0016 J**	**0.0073**	0.008 U	**19.4**	**0.018**	**0.03**	**0.08**	N/A-M	**0.0023 J**	**0.015**	N/A-M	**0.026**	**0.36**
N-Nitrosodiphenylamine	mg/kg	470	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 U	0.087 U	0.072 U	0.078 U	0.078 U	0.074 U	0.072 U
Phenanthrene	mg/kg		**0.36**	**0.0019 J**	**0.028**	0.008 U	**287**	**0.06**	**0.23**	**0.53**	N/A-M	0.0072 U	**0.045**	N/A-M	**0.031**	**1.2**
Phenol	mg/kg	250,000	0.074 U	0.075 U	0.071 U	0.085 U	0.075 U	0.076 U	0.073 U	0.077 UJ	**0.03 J**	0.072 U	0.078 U	0.078 R	0.074 R	0.072 U
Pyrene	mg/kg	23,000	**0.62**	**0.0022 J**	**0.058**	0.008 U	**104**	**0.075**	**0.47**	**1.2**	N/A-M	**0.018**	**0.099**	N/A-M	**0.015**	**1.6**
PCBs																
Aroclor 1254	mg/kg	0.97	0.018 U	N/A	0.018 U	N/A	**0.12 J**	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	0.019 U	N/A
Aroclor 1260	mg/kg	0.99	**0.13**	N/A	**0.01 J**	N/A	0.019 U	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	0.019 U	N/A
PCBs (total)	mg/kg	0.97	**0.13**	N/A	0.13 U	N/A	**0.12 J**	N/A	0.12 U	N/A	N/A-M	0.13 U	N/A	N/A-M	0.13 U	N/A
TPH/Oil and Grease																
Diesel Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A-M	N/A	N/A	N/A-M	N/A	N/A
Gasoline Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A-M	N/A	N/A	N/A-M	N/A	N/A
Oil and Grease	mg/kg	6,200	**1,440**	**516**	**336**	**425**	**840**	**67.2 J**	**366**	**630**	N/A-M	**254**	**291**	N/A-M	**542**	**1,110**

Detections in bold
N/A: This parameter was not analyzed for this sample
N/A-M: This parameter was not analyzed for this sample based on the scope of the SVOC Microwave method resampling event
*PAH compounds were analyzed via SIM
Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The quantitative/detection limit may be higher than reported.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
J: The positive result for this analyte is a quantitative estimate.
R: The result for this analyte is unreliable.

Table 6
Summary of Organics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-025-SB-1	A4-025-SB-7	A4-025-SB-10	A4-026-SB-1	A4-026-SB-5	A4-026-SB-10	A4-027-SB-1	A4-027-SB-5	A4-027-SB-10	A4-028-SB-1	A4-028-SB-5
Volatile Organic Compounds													
1,2-Dichlorobenzene	mg/kg	9,300	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	0.005 U	0.0047 U
2-Butanone (MEK)	mg/kg	190,000	0.0092 U	0.01 U	N/A	**0.0057 J**	**0.0047 J**	N/A-M	0.0081 U	**0.0099 J**	N/A-M	**0.0034 J**	0.0095 U
2-Hexanone	mg/kg	1,300	0.0092 U	0.01 U	N/A	0.01 U	0.01 U	N/A-M	0.0081 U	0.011 U	N/A-M	**0.024**	0.0095 U
Acetone	mg/kg	670,000	**0.036 J**	0.01 R	N/A	**0.035 J**	**0.042 J**	N/A-M	**0.014 J**	**0.074 J**	N/A-M	**0.032 J**	**0.007 J**
Benzene	mg/kg	5.1	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	0.005 U	0.0047 U
Cyclohexane	mg/kg	27,000	0.0092 U	0.01 U	N/A	0.01 U	**0.00052 J**	N/A-M	0.0081 UJ	0.011 UJ	N/A-M	0.01 U	0.0095 U
Ethylbenzene	mg/kg	25	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	0.005 U	0.0047 U
Isopropylbenzene	mg/kg	9,900	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	0.005 U	0.0047 U
Methyl Acetate	mg/kg	1,200,000	0.046 R	0.05 R	N/A	0.051 U	0.052 U	N/A-M	0.041 U	0.057 U	N/A-M	0.05 U	0.047 U
Methylene Chloride	mg/kg	1,000	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	**0.0038 J**	**0.0039 J**
Toluene	mg/kg	47,000	0.0046 U	0.005 U	N/A	**0.00056 J**	**0.00081 J**	N/A-M	0.0041 U	0.00092 B	N/A-M	**0.00054 J**	0.0047 U
Trichloroethene	mg/kg	6	0.0046 U	0.005 U	N/A	0.0051 U	0.0052 U	N/A-M	0.0041 U	0.0057 U	N/A-M	0.005 U	0.0047 U
Xylenes	mg/kg	2,800	0.014 U	0.015 U	N/A	0.015 U	0.016 U	N/A-M	0.012 U	0.017 U	N/A-M	0.015 U	0.014 U
Semi-Volatile Organic Compounds*													
1,1-Biphenyl	mg/kg	200	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	**0.048 J**	**0.094**	**0.038 J**	0.077 U
2,4-Dimethylphenol	mg/kg	16,000	0.072 U	0.082 U	N/A	0.072 U	**0.015 J**	0.082 U	0.074 R	0.074 R	0.074 UJ	**0.03 J**	0.077 U
2,6-Dinitrotoluene	mg/kg	1.5	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	0.074 U	0.074 U	0.075 U	0.077 U
2-Chloronaphthalene	mg/kg	60,000	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	0.074 U	0.074 U	0.075 U	0.077 U
2-Methylnaphthalene	mg/kg	3,000	**0.0032 J**	**0.071**	0.0088 U	**0.072 J**	**0.0033 J**	N/A-M	**0.0037 J**	**0.28**	N/A-M	**0.013**	**0.0014 J**
2-Methylphenol	mg/kg	41,000	0.072 U	0.082 U	N/A	0.072 U	**0.014 J**	0.082 U	0.074 R	0.074 R	0.074 UJ	0.075 U	0.077 U
3&4-Methylphenol(m&p Cresol)	mg/kg	41,000	0.14 U	0.16 U	N/A	0.14 U	**0.038 J**	0.16 U	0.15 R	0.15 R	0.15 UJ	**0.034 J**	0.15 U
Acenaphthene	mg/kg	45,000	0.007 U	**0.31**	0.0088 U	**0.51**	**0.0027 J**	N/A-M	0.0071 U	**0.18**	N/A-M	**0.017**	0.0075 U
Acenaphthylene	mg/kg	45,000	0.007 U	**0.01**	0.0088 U	**0.14 J**	**0.0042 J**	N/A-M	0.0071 U	**0.25**	N/A-M	**0.0093**	0.0075 U
Acetophenone	mg/kg	120,000	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	**0.033 J**	0.074 U	0.075 U	0.077 U
Anthracene	mg/kg	230,000	**0.0087**	**0.14**	0.0088 U	**1.3**	**0.0086**	N/A-M	**0.0039 J**	**0.97**	N/A-M	**0.031**	0.0075 U
Benz[a]anthracene	mg/kg	2.9	**0.068**	**0.96**	0.0088 U	**3**	**0.032**	N/A-M	**0.05**	**3.1**	N/A-M	**0.14**	0.0075 U
Benzaldehyde	mg/kg	120,000	0.072 R	0.082 R	N/A	0.072 R	0.074 R	0.082 UJ	0.074 R	**0.021 J**	0.074 UJ	0.075 R	0.077 R
Benzo[a]pyrene	mg/kg	0.29	**0.096**	**1.7**	0.0088 U	**3**	**0.034**	N/A-M	**0.054**	**2.8**	N/A-M	**0.18**	0.0075 U
Benzo[b]fluoranthene	mg/kg	2.9	**0.18**	**2.2**	**0.0037 J**	**4.6**	**0.058**	N/A-M	**0.16**	**4.7**	N/A-M	**0.3**	**0.0011 J**
Benzo[g,h,i]perylene	mg/kg		**0.037 J**	**0.54 J**	0.0088 U	**0.72**	**0.0087**	N/A-M	**0.028**	**0.73**	N/A-M	**0.074**	0.0075 U
Benzo[k]fluoranthene	mg/kg	29	**0.094**	**0.89**	**0.003 J**	**2.1**	**0.024**	N/A-M	**0.13**	**1.9**	N/A-M	**0.15**	0.0075 U
bis(2-Ethylhexyl)phthalate	mg/kg	160	0.072 UJ	0.082 U	N/A	0.072 U	0.074 UJ	0.082 U	0.074 UJ	0.074 UJ	0.074 UJ	**0.2 J**	0.077 U
Carbazole	mg/kg		**0.054 J**	0.082 U	N/A	**0.14**	**0.73 J**	0.082 U	0.074 U	**0.32**	**1.3**	**0.17 J**	0.077 U
Chrysene	mg/kg	290	**0.096**	**0.99**	**0.00083 J**	**2.9**	**0.034**	N/A-M	**0.064**	**3.4**	N/A-M	**0.15**	**0.00059 J**
Dibenz[a,h]anthracene	mg/kg	0.29	**0.018**	**0.32**	0.0088 U	**0.45**	**0.0049 J**	N/A-M	**0.01**	**0.47**	N/A-M	**0.028**	0.0075 U
Diethylphthalate	mg/kg	660,000	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	0.074 U	0.074 U	0.075 U	0.077 U
Di-n-butylphthalate	mg/kg	82,000	0.072 U	0.082 U	N/A	0.03 B	0.074 U	0.082 U	0.074 U	0.074 U	0.074 U	0.075 U	0.077 U
Di-n-ocytlphthalate	mg/kg	8,200	0.072 UJ	0.082 U	N/A	0.072 U	0.074 UJ	0.082 U	0.074 UJ	0.074 UJ	0.074 UJ	0.075 UJ	0.077 U
Fluoranthene	mg/kg	30,000	**0.091**	**1**	**0.0014 J**	**5.3**	**0.061**	N/A-M	**0.072**	**4.4**	N/A-M	**0.16**	**0.00086 J**
Fluorene	mg/kg	30,000	**0.0017 J**	**0.072**	0.0088 U	**0.4**	**0.0029 J**	N/A-M	**0.00077 J**	**0.21**	N/A-M	**0.0053 J**	0.0075 U
Indeno[1,2,3-c,d]pyrene	mg/kg	2.9	**0.044**	**0.72**	0.0088 U	**0.92**	**0.011**	N/A-M	**0.028**	**0.99**	N/A-M	**0.082**	0.0075 U
Naphthalene	mg/kg	17	0.0038 B	**0.1**	0.0088 U	**0.18**	**0.0098**	N/A-M	**0.004 J**	**0.69**	N/A-M	**0.016**	**0.0017 J**
N-Nitrosodiphenylamine	mg/kg	470	0.072 U	0.082 U	N/A	0.072 U	0.074 U	0.082 U	0.074 U	0.074 U	0.074 U	**0.037 J**	0.077 U
Phenanthrene	mg/kg		**0.029**	**0.46**	**0.0026 J**	**3.7**	**0.032**	N/A-M	**0.02**	**2.6**	N/A-M	**0.076**	**0.0017 J**
Phenol	mg/kg	250,000	0.072 U	0.082 U	N/A	0.072 U	**0.037 J**	0.082 U	0.074 R	0.074 R	0.074 UJ	**0.022 J**	0.077 U
Pyrene	mg/kg	23,000	**0.088**	**0.91**	**0.0019 J**	**4.3**	**0.048**	N/A-M	**0.065**	**3.8**	N/A-M	**0.17**	**0.00081 J**
PCBs													
Aroclor 1254	mg/kg	0.97	0.018 U	N/A	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	0.018 U	N/A
Aroclor 1260	mg/kg	0.99	0.018 U	N/A	N/A	0.018 U	N/A	N/A-M	0.018 U	N/A	N/A-M	**0.013 J**	N/A
PCBs (total)	mg/kg	0.97	0.12 U	N/A	N/A	0.12 U	N/A	N/A-M	0.13 U	N/A	N/A-M	0.12 U	N/A
TPH/Oil and Grease													
Diesel Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A	N/A-M	N/A	N/A	N/A-M	N/A	N/A
Gasoline Range Organics	mg/kg	6,200	N/A	N/A	N/A	N/A	N/A	N/A-M	N/A	N/A	N/A-M	N/A	N/A
Oil and Grease	mg/kg	6,200	**412**	**2,600**	N/A	**618**	**1,040**	N/A-M	**227**	**1,740**	N/A-M	**587**	**309**

Detections in bold
N/A: This parameter was not analyzed for this sample
N/A-M: This parameter was not analyzed for this sample based on the scope of the SVOC Microwave method resampling event
*PAH compounds were analyzed via SIM
Values in red indicate an exceedance of the Project Action Limit (PAL)

U: This analyte was not detected in the sample. The numeric value represents the sample quantitation/detection limit.
UJ: This analyte was not detected in the sample. The quantitative/detection limit may be higher than reported.
B: This analyte was not detected substantially above the level of the associated method blank or field blank.
J: The positive result for this analyte is a quantitative estimate.
R: The result for this analyte is unreliable.

Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-001-SB-1	A4-001-SB-5	A4-002-SB-1	A4-002-SB-5	A4-003-SB-1	A4-003-SB-7.5	A4-004-SB-1
Metal									
Aluminum	mg/kg	1,100,000	**41,000**	**15,600**	**27,200**	**36,600**	**9,490**	**6,080**	**9,450**
Antimony	mg/kg	470	2.5 UJ	2.2 UJ	1.8 UJ	3.4 UJ	2 UJ	**5.4 J**	2.2 UJ
Arsenic	mg/kg	3	1.8 B	1.8 U	1.2 B	2.7 B	**2.7**	**11.7**	**5.1**
Barium	mg/kg	220,000	**417 J**	**108 J**	**277 J**	**689 J**	**50.8 J**	**83.8 J**	**31.3 J**
Beryllium	mg/kg	2,300	**7.3**	**1.7**	**4.7**	**2.8**	0.17 B	0.96 U	0.73 U
Cadmium	mg/kg	980	**0.34 J**	**0.3 J**	**0.34 J**	**6.3**	**0.44 J**	**0.36 J**	**0.41 J**
Chromium	mg/kg	120,000	**32.5**	**17.3**	**27.8**	**73.3**	**913**	**472**	**1,320**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	1.1 U	1.1 U	**1.1**	1.1 U	**10.3**
Cobalt	mg/kg	350	1.4 B	2.9 B	1.3 B	**30.5**	**1.9 J**	**17.9**	1.2 B
Copper	mg/kg	47,000	**7.2 J**	**34.4 J**	**5.9 J**	**30 J**	**34.5 J**	**224 J**	**21.2 J**
Iron	mg/kg	820,000	**20,900**	**10,700**	**9,960**	**20,700**	**105,000**	**140,000**	**160,000**
Lead	mg/kg	800	**11.8**	**14.7**	**17.3**	**817**	**13.7**	**84.8**	**1.9**
Manganese	mg/kg	26,000	**2,940**	**679**	**2,140**	**9,360**	**22,500**	**9,290**	**31,900**
Mercury	mg/kg	350	0.11 UJ	0.11 UJ	0.1 UJ	0.11 UJ	**0.0082 J**	**0.0061 J**	0.11 UJ
Nickel	mg/kg	22,000	**6 J**	**6.1 J**	**4 J**	**14.4 J**	**15.1 J**	**36.4 J**	**22 J**
Selenium	mg/kg	5,800	**2.6 J**	3 U	**2.1 J**	4.5 U	**2.3 J**	3.8 U	2.9 U
Silver	mg/kg	5,800	2.5 U	2.2 U	1.8 U	3.4 U	**1.6 J**	2.9 U	**3.1**
Thallium	mg/kg	12	8.2 UJ	7.4 UJ	5.9 UJ	11.2 UJ	6.6 UJ	9.6 UJ	7.3 UJ
Vanadium	mg/kg	5,800	**36.2**	**33**	**30.2**	**301**	**400**	**2,140**	**563**
Zinc	mg/kg	350,000	**96**	**76**	**69.5**	**8,500**	**94.3**	**71.6**	**21**
Other									
Cyanide	mg/kg	150	**0.28 J+**	0.6 U	**0.22 J+**	**0.23 J+**	**0.12 J+**	**0.06 J+**	**0.052 J+**

Detections in bold
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J-: The positive result for this analyte is a quantitative estimate but may be biased low.
J: The positive resulte for this analyte is a quantitative estimate.

Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-004-SB-5	A4-005-SB-1	A4-005-SB-5	A4-005-SB-10	A4-006-SB-1	A4-006-SB-6	A4-006-SB-10
Metal									
Aluminum	mg/kg	1,100,000	**13,900**	**11,400**	**10,900**	N/A	**13,800**	**17,800**	N/A
Antimony	mg/kg	470	3.5 UJ	2.4 UJ	**2.4 J**	N/A	2.6 UJ	3.1 UJ	N/A
Arsenic	mg/kg	3	**3.6**	**2.6 J**	**8.1 J**	**5.9**	**4.3 J**	**4.5 J**	**10.5**
Barium	mg/kg	220,000	**95.6 J**	**75.8 J**	**159 J**	N/A	**107 J**	**139 J**	N/A
Beryllium	mg/kg	2,300	0.7 B	0.38 B	0.21 B	N/A	**1.4**	**2.3**	N/A
Cadmium	mg/kg	980	**0.43 J**	**1.2**	**4**	N/A	1.1 B	0.6 B	N/A
Chromium	mg/kg	120,000	**25.3**	**1,390**	**1,580**	N/A	**94.5**	**40.5**	N/A
Chromium VI	mg/kg	6.3	1.2 U	**4.2 J-**	1.1 UJ	N/A	1.1 UJ	1.1 UJ	N/A
Cobalt	mg/kg	350	**11.2**	3.9 B	**24.1**	N/A	**4.7**	4.1 B	N/A
Copper	mg/kg	47,000	**18.2 J**	**35.5**	**155**	N/A	**42.3**	**23.3**	N/A
Iron	mg/kg	820,000	**18,200**	**158,000 J**	**123,000 J**	N/A	**31,100 J**	**23,600 J**	N/A
Lead	mg/kg	800	**92**	**105 J**	**693 J**	N/A	**187 J**	**42.9 J**	N/A
Manganese	mg/kg	26,000	**432**	**30,000 J**	**26,500 J**	**46.3**	**2,050 J**	**1,330 J**	N/A
Mercury	mg/kg	350	**0.19 J**	**0.085 J**	**0.14**	N/A	**0.078 J**	**0.0025 J**	N/A
Nickel	mg/kg	22,000	**12.8 J**	**23.9**	**33**	N/A	**14.2**	**12.8**	N/A
Selenium	mg/kg	5,800	4.6 U	3.2 U	2.2 U	N/A	3.4 U	4.1 U	N/A
Silver	mg/kg	5,800	3.5 U	**2.7**	1.6 U	N/A	2.6 U	3.1 U	N/A
Thallium	mg/kg	12	11.5 UJ	7.9 U	**13.8**	10.2 U	8.5 U	1.6 B	N/A
Vanadium	mg/kg	5,800	**41.2**	**629 J**	**5,460 J**	N/A	**162 J**	**46.7 J**	N/A
Zinc	mg/kg	350,000	**223**	**350**	**1,720**	N/A	**346**	**171**	N/A
Other									
Cyanide	mg/kg	150	0.67 U	**1.3**	**1.6**	N/A	**0.3 J**	**0.6 J**	N/A

Detections in bold
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J-: The positive result for this analyte is a quantitative estimate but may be biased low.
J: The positive resulte for this analyte is a quantitative estimate.

Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-007-SB-1	A4-007-SB-5	A4-007-SB-10	A4-008-SB-1	A4-008-SB-5	A4-008-SB-10	A4-009-SB-1
Metal									
Aluminum	mg/kg	1,100,000	**19,200**	**17,400**	N/A	**15,100**	**16,000**	N/A	**11,800**
Antimony	mg/kg	470	2 UJ	2.2 UJ	N/A	2.1 UJ	3.3 UJ	N/A	3.6 UJ
Arsenic	mg/kg	3	1.7 U	**5**	**3.9**	1.8 U	**3.8**	**12.3**	**4.3**
Barium	mg/kg	220,000	**163**	**47.5**	N/A	**98.9**	**72.7**	N/A	**69.3**
Beryllium	mg/kg	2,300	**2.9**	**1.1**	N/A	**1.6**	0.82 B	N/A	0.62 B
Cadmium	mg/kg	980	0.39 B	1.1 U	N/A	0.36 B	1.7 U	N/A	0.82 B
Chromium	mg/kg	120,000	**36.9**	**34.8**	N/A	**55**	**17.4**	N/A	**29.8**
Chromium VI	mg/kg	6.3	1 U	**0.87 J**	N/A	1.1 U	1.2 U	N/A	1.2 U
Cobalt	mg/kg	350	2 B	**3.8**	N/A	**4.1**	5.1 B	N/A	4.5 B
Copper	mg/kg	47,000	**7.9**	**9.6**	N/A	**9.1**	**10.3**	N/A	**19**
Iron	mg/kg	820,000	**16,000**	**37,200**	N/A	**19,900**	**6,150**	N/A	**16,900**
Lead	mg/kg	800	**26.5**	**27.3**	N/A	**10.1**	**12.7**	N/A	**53.2**
Manganese	mg/kg	26,000	**2,230**	**48.9**	N/A	**1,170**	**15.6**	N/A	**613**
Mercury	mg/kg	350	**0.012 J**	**0.055 J**	N/A	**0.0057 J**	**0.025 J**	N/A	**0.12**
Nickel	mg/kg	22,000	5.9 B	**7.7**	N/A	**11.5**	**13.7**	N/A	**13.4**
Selenium	mg/kg	5,800	2.7 U	2.9 U	N/A	2.8 U	4.5 U	N/A	4.7 U
Silver	mg/kg	5,800	2 U	2.2 U	N/A	2.1 U	3.3 U	N/A	3.6 U
Thallium	mg/kg	12	6.8 U	7.3 U	N/A	7.1 U	11.2 U	N/A	11.9 U
Vanadium	mg/kg	5,800	**39.4**	**97.5**	N/A	**72.9**	**18.3**	N/A	**60.5**
Zinc	mg/kg	350,000	**71.2**	**29.8**	N/A	**97.8**	**23.6**	N/A	**192**
Other									
Cyanide	mg/kg	150	**0.075 J+**	0.73 U	N/A	**0.084 J**	0.65 U	N/A	0.59 U

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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-009-SB-5	A4-010-SB-1	A4-010-SB-5	A4-011-SB-1	A4-011-SB-5	A4-012-SB-1	A4-012-SB-5
Metal									
Aluminum	mg/kg	1,100,000	**5,220**	**12,800**	**29,400**	**8,040**	**20,600**	**15,600**	**11,800**
Antimony	mg/kg	470	2.8 UJ	3.4 UJ	2.8 UJ	3.1 UJ	2.4 UJ	3.1 UJ	2 UJ
Arsenic	mg/kg	3	2.4 U	**5.7**	**2.6**	**5.9**	**2.8**	**3.7**	**9.4**
Barium	mg/kg	220,000	**16.2**	**62**	**250**	**41.5 J**	**214 J**	**124**	**173**
Beryllium	mg/kg	2,300	0.23 B	0.71 B	**3.9**	1 U	**1.2**	**1.1**	**1**
Cadmium	mg/kg	980	1.4 U	0.28 B	0.34 B	**0.7 J**	**0.65 J**	0.76 B	**11.7**
Chromium	mg/kg	120,000	**7.6**	**30.5**	**46.3**	**1,810**	**31.3**	**687**	**399**
Chromium VI	mg/kg	6.3	1.1 U	1.1 U	1.1 U	**15.1**	1.1 U	1 UJ	1.1 UJ
Cobalt	mg/kg	350	0.76 B	**6.2**	3.1 B	5.2 U	**9.1**	4.7 B	**14.2**
Copper	mg/kg	47,000	**3.9 J**	**10.4**	**15.7**	**17.5 J**	**72.4 J**	**23.5 J**	**70.7 J**
Iron	mg/kg	820,000	**3,690**	**20,100**	**30,900**	**177,000**	**25,700**	**79,600**	**73,100**
Lead	mg/kg	800	2.4 U	**15.2**	**10.7**	**3.4**	**235**	**68**	**228**
Manganese	mg/kg	26,000	**5.9**	**517**	**2,580**	**35,800**	**1,370**	**16,100 J**	**9,020 J**
Mercury	mg/kg	350	0.1 U	**0.067 J**	**0.0053 J**	0.1 UJ	**0.017 J**	**0.031 J**	**0.054 J**
Nickel	mg/kg	22,000	2.7 B	**14.7**	**18.6**	**13.8 J**	**14.9 J**	**13**	**35.8**
Selenium	mg/kg	5,800	3.8 U	4.6 U	3.7 U	4.1 U	3.1 U	2.8 B	2.6 U
Silver	mg/kg	5,800	2.8 U	3.4 U	2.8 U	**2.9 J**	2.4 U	3.1 U	2 U
Thallium	mg/kg	12	9.5 U	11.4 U	9.3 U	10.4 UJ	7.8 UJ	10.2 UJ	6.6 UJ
Vanadium	mg/kg	5,800	**9.5**	**35**	**101**	**630**	**121**	**324 J**	**1,060 J**
Zinc	mg/kg	350,000	**7.3**	**75.6**	**20.8**	**29.8**	**236**	**208**	**1,250**
Other									
Cyanide	mg/kg	150	0.59 U	0.66 U	**2.4**	0.65 U	0.59 U	**0.18 J**	**0.49 J**

Detections in bold
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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-013-SB-1	A4-013-SB-4	A4-014-SB-1	A4-014-SB-7	A4-014-SB-10	A4-015-SB-1	A4-015-SB-5
Metal									
Aluminum	mg/kg	1,100,000	**12,100**	**4,840**	**11,200**	**17,300**	N/A	**34,000**	**16,300**
Antimony	mg/kg	470	3.3 UJ	**7.8 J**	3.1 UJ	3.5 UJ	N/A	2.5 UJ	3 UJ
Arsenic	mg/kg	3	**6.2**	**29.4**	**5.2**	**5.3**	**7.1**	**6.1 J**	**85.5 J**
Barium	mg/kg	220,000	**157**	**90.8**	**113**	**74.5**	N/A	**314 J**	**20.6 J**
Beryllium	mg/kg	2,300	**1.6**	**0.28 J**	**0.69 J**	**0.82 J**	N/A	**3.1**	**1.2**
Cadmium	mg/kg	980	1.4 B	**33,600**	**2.4**	1.7 U	N/A	1.2 B	0.23 B
Chromium	mg/kg	120,000	**89**	**126**	**219**	**35.3**	N/A	**303**	**43**
Chromium VI	mg/kg	6.3	1.1 UJ	1.3 UJ	1.1 UJ	1.3 UJ	N/A	1.1 U	1.2 UJ
Cobalt	mg/kg	350	**9.5**	**70.9**	**12.7**	**7.2**	N/A	**8.6**	4.1 B
Copper	mg/kg	47,000	**49.4 J**	**10,700 J**	**50.3 J**	**18.8 J**	N/A	**73.5**	**9.1**
Iron	mg/kg	820,000	**38,700**	**255,000**	**43,200**	**19,100**	N/A	**102,000 J**	**73,000 J**
Lead	mg/kg	800	**115**	**2,780**	**214**	**19.3**	N/A	**101 J**	**17.1 J**
Manganese	mg/kg	26,000	**3,060 J**	**3,580 J**	**3,470 J**	**238 J**	N/A	**17,300 J**	**51.1 J**
Mercury	mg/kg	350	**0.027 J**	**0.89 J**	**0.082 J**	**0.036 J**	N/A	**0.042 J**	**0.0079 J**
Nickel	mg/kg	22,000	**24.4**	**213**	**22.9**	**15.4**	N/A	**46.1**	9.6 B
Selenium	mg/kg	5,800	4.4 U	3.9 U	4.1 U	4.6 U	N/A	2.9 B	4 U
Silver	mg/kg	5,800	3.3 U	**14.3**	3.1 U	3.5 U	N/A	2.5 U	**0.39 J**
Thallium	mg/kg	12	11 UJ	9.7 UJ	10.2 UJ	11.6 UJ	N/A	8.4 U	2.2 B
Vanadium	mg/kg	5,800	**228 J**	**106 J**	**558 J**	**38 J**	N/A	**430 J**	**72.8 J**
Zinc	mg/kg	350,000	**308**	**62,400**	**721**	**80**	N/A	**332**	**39.8**
Other									
Cyanide	mg/kg	150	**0.28 J**	0.72 U	**0.2 J**	0.63 U	N/A	**0.86**	0.71 U

Detections in bold
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J-: The positive result for this analyte is a quantitative estimate but may be biased low.
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A4-013-SB has been excavated due to elevated levels of cadmium and is not included in the SLRA

Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-015-SB-10	A4-016-SB-1	A4-016-SB-5	A4-016-SB-10	A4-017-SB-1	A4-017-SB-5	A4-017-SB-10
Metal									
Aluminum	mg/kg	1,100,000	N/A	**21,000**	**24,000**	N/A	**14,600**	**14,100**	N/A
Antimony	mg/kg	470	N/A	3 UJ	2.1 UJ	N/A	2.5 UJ	2.6 UJ	N/A
Arsenic	mg/kg	3	**6.7**	**9.5**	**9.5**	**8.3**	**5.2 J**	**6.4 J**	**11.8**
Barium	mg/kg	220,000	N/A	**210**	**308**	N/A	**137 J**	**32.5 J**	N/A
Beryllium	mg/kg	2,300	N/A	**2.6**	**3**	N/A	**1.3**	0.87 B	N/A
Cadmium	mg/kg	980	N/A	**3.7**	**1.6**	N/A	0.71 B	1.3 U	N/A
Chromium	mg/kg	120,000	N/A	**570**	**487**	N/A	**567**	**25.4**	N/A
Chromium VI	mg/kg	6.3	N/A	1.1 UJ	1.1 UJ	N/A	1.1 U	1.2 U	N/A
Cobalt	mg/kg	350	N/A	**7.3**	**6.1**	N/A	**7.3**	**4.6**	N/A
Copper	mg/kg	47,000	N/A	**59.9 J**	**54.5 J**	N/A	**71.1**	4 B	N/A
Iron	mg/kg	820,000	N/A	**96,300**	**118,000**	N/A	**150,000 J**	**48,700 J**	N/A
Lead	mg/kg	800	N/A	**776**	**272**	N/A	**135 J**	**15.4 J**	N/A
Manganese	mg/kg	26,000	N/A	**13,600 J**	**14,100 J**	N/A	**16,700 J**	**47.5 J**	N/A
Mercury	mg/kg	350	N/A	0.11 UJ	0.11 UJ	N/A	**0.042 J**	**0.013 J**	N/A
Nickel	mg/kg	22,000	N/A	**21.7**	**17.7**	N/A	**54.6**	**9.5**	N/A
Selenium	mg/kg	5,800	N/A	3 B	**3.5**	N/A	3.3 U	3.5 U	N/A
Silver	mg/kg	5,800	N/A	3 U	2.1 U	N/A	2.5 U	0.29 B	N/A
Thallium	mg/kg	12	N/A	9.9 UJ	7.1 UJ	N/A	8.4 U	8.7 U	N/A
Vanadium	mg/kg	5,800	N/A	**663 J**	**1,360 J**	N/A	**935 J**	**62.2 J**	N/A
Zinc	mg/kg	350,000	N/A	**1,180**	**274**	N/A	**211**	**35**	N/A
Other									
Cyanide	mg/kg	150	N/A	**3.1**	**0.77**	N/A	**0.2 J**	0.68 U	N/A

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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-018-SB-1	A4-018-SB-5	A4-018-SB-10	A4-019-SB-1	A4-019-SB-5	A4-020-SB-1	A4-020-SB-5
Metal									
Aluminum	mg/kg	1,100,000	**11,400**	**17,100**	N/A	**6,190**	**10,900**	**7,740**	**13,300**
Antimony	mg/kg	470	0.97 B	2.3 UJ	N/A	2 UJ	2.4 UJ	1.7 UJ	2.7 UJ
Arsenic	mg/kg	3	**16.5**	**3.4**	**10.5**	**6.5 J**	**1.8 J**	**5.7**	**3.1**
Barium	mg/kg	220,000	**110**	**53.1**	N/A	**62.5 J**	**40.2 J**	**53.9**	**35.4**
Beryllium	mg/kg	2,300	**2.5**	**0.8**	N/A	0.61 B	0.63 B	0.27 B	0.3 B
Cadmium	mg/kg	980	**1.4**	0.14 B	N/A	**3**	1.2 U	0.29 B	1.3 U
Chromium	mg/kg	120,000	**117**	**36.1**	N/A	**219**	**15.3**	**25.3**	**18.7**
Chromium VI	mg/kg	6.3	1.1 U	1.2 U	N/A	1.1 U	1.2 U	1.1 U	1.2 U
Cobalt	mg/kg	350	**17.6**	**5.7**	N/A	**12.3**	3 B	**8.4**	2.6 B
Copper	mg/kg	47,000	**138**	**13.5**	N/A	**119**	**6.8**	**8.1**	**6.4**
Iron	mg/kg	820,000	**259,000**	**20,000**	N/A	**152,000 J**	**14,300 J**	**12,700**	**12,800**
Lead	mg/kg	800	**182**	**17.7**	N/A	**1,010 J**	**13.9 J**	**8.8**	**7.5**
Manganese	mg/kg	26,000	**3,910**	**37.5**	N/A	**5,460 J**	**27.8 J**	**452**	**44.3**
Mercury	mg/kg	350	**0.12**	**0.0045 J**	N/A	**0.84**	**0.0069 J**	**0.0074 J**	**0.04 J**
Nickel	mg/kg	22,000	**94.2**	**14.5**	N/A	**49.9**	7.1 B	**9.1**	8 B
Selenium	mg/kg	5,800	2.7 U	3 U	N/A	2.6 U	3.2 U	2.3 U	3.5 U
Silver	mg/kg	5,800	**3.1**	2.3 U	N/A	1.1 B	2.4 U	1.7 U	2.7 U
Thallium	mg/kg	12	6.9 U	7.6 U	N/A	6.5 U	8 U	5.8 U	8.9 U
Vanadium	mg/kg	5,800	**178**	**43.6**	N/A	**441 J**	**18.5 J**	**26.9**	**27.5**
Zinc	mg/kg	350,000	**509**	**42.8**	N/A	**462**	**18.6**	**29.1**	**19.1**
Other									
Cyanide	mg/kg	150	**0.29 J**	0.65 U	N/A	**0.75**	**0.89**	0.54 U	0.73 U

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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-020-SB-10	A4-021-SB-1	A4-021-SB-5	A4-021-SB-10	A4-022-SB-1	A4-022-SB-8	A4-023-SB-1
Metal									
Aluminum	mg/kg	1,100,000	N/A	**17,600**	**18,700**	N/A	**21,100**	**10,100**	**11,500**
Antimony	mg/kg	470	N/A	2.9 UJ	2.4 UJ	N/A	3.1 UJ	2.4 UJ	2 UJ
Arsenic	mg/kg	3	**8.4**	**7.2 J**	**4 J**	**11.8**	2.3 B	**8.5**	**2.2**
Barium	mg/kg	220,000	N/A	**116 J**	**53.9 J**	N/A	**184**	**157**	**56.5**
Beryllium	mg/kg	2,300	N/A	**1.2**	0.54 B	N/A	**3.1**	**0.3 J**	**0.5 J**
Cadmium	mg/kg	980	N/A	1.4 B	0.42 B	N/A	**2.6**	**2.4**	0.44 B
Chromium	mg/kg	120,000	N/A	**166**	**117**	N/A	**188**	**1,140**	**1,370**
Chromium VI	mg/kg	6.3	N/A	1.1 U	1.1 U	N/A	1.1 UJ	1.1 UJ	1.1 UJ
Cobalt	mg/kg	350	N/A	**10**	**6.3**	N/A	4.8 B	**12.1**	**0.79 J**
Copper	mg/kg	47,000	N/A	**46.1**	**15.3**	N/A	**29.5 J**	**99.1 J**	**16.4 J**
Iron	mg/kg	820,000	N/A	**56,200 J**	**27,100 J**	N/A	**35,400**	**138,000**	**155,000**
Lead	mg/kg	800	N/A	**140 J**	**28.3 J**	N/A	**89.7**	**123**	**2.2**
Manganese	mg/kg	26,000	N/A	**5,060 J**	**4,040 J**	N/A	**5,030 J**	**31,300 J**	**33,700 J**
Mercury	mg/kg	350	N/A	**0.077 J**	**0.081 J**	N/A	0.1 UJ	**0.0097 J**	0.1 UJ
Nickel	mg/kg	22,000	N/A	**25.2**	**16.7**	N/A	**14.6**	**39.7**	**13.5**
Selenium	mg/kg	5,800	N/A	3.8 U	3.2 U	N/A	4.1 U	3.3 U	2.1 B
Silver	mg/kg	5,800	N/A	2.9 U	2.4 U	N/A	3.1 U	2.4 U	1 B
Thallium	mg/kg	12	N/A	9.6 U	8.1 U	N/A	10.3 UJ	8.1 UJ	6.5 UJ
Vanadium	mg/kg	5,800	N/A	**411 J**	**397 J**	N/A	**179 J**	**4,890 J**	**623 J**
Zinc	mg/kg	350,000	N/A	**439**	**127**	N/A	**249**	**213**	**13.1**
Other									
Cyanide	mg/kg	150	N/A	0.64 U	**0.72**	N/A	**0.5 J**	**0.37 J**	**0.039 J**

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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-023-SB-5	A4-024-SB-1	A4-024-SB-5	A4-025-SB-1	A4-025-SB-7	A4-026-SB-1	A4-026-SB-5
Metal									
Aluminum	mg/kg	1,100,000	**42,300**	**12,600**	**11,000**	**35,300**	**14,300**	**16,700**	**19,500**
Antimony	mg/kg	470	2.1 UJ	2.9 UJ	2.2 B	2.9 UJ	2.5 UJ	2.7 UJ	2.1 UJ
Arsenic	mg/kg	3	**3.3**	**2.8**	**10.1**	2.4 U	**2.7**	**2.9 J**	**4.3 J**
Barium	mg/kg	220,000	**339**	**33.2 J**	**185 J**	**328**	**129**	**154 J**	**98.2 J**
Beryllium	mg/kg	2,300	**6.5**	0.96 U	0.9 B	**5.8**	**1.8**	**2**	**1**
Cadmium	mg/kg	980	**5.6**	**0.34 J**	**4.4**	0.36 B	0.35 B	1.1 B	0.46 B
Chromium	mg/kg	120,000	**17.4**	**1,600**	**130**	**20.3**	**511**	**184**	**25.4**
Chromium VI	mg/kg	6.3	1.1 UJ	**9.6**	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Cobalt	mg/kg	350	3.2 B	4.8 U	**9.2**	**1.6 J**	**3.9 J**	3.9 B	**6.7**
Copper	mg/kg	47,000	**24.5 J**	**16.3 J**	**134 J**	**8.9**	**46.7**	**27**	**14.8**
Iron	mg/kg	820,000	**19,000**	**170,000**	**53,100**	**16,500**	**71,100**	**44,600 J**	**20,700 J**
Lead	mg/kg	800	**69.3**	2.4 U	**350**	**3.2**	**188**	**121 J**	**32.8 J**
Manganese	mg/kg	26,000	**2,530 J**	**30,600**	**3,940**	**2,240**	**6,580**	**5,740 J**	**862 J**
Mercury	mg/kg	350	0.11 UJ	0.11 UJ	**0.075 J**	0.1 U	**0.027 J**	0.099 U	**0.18**
Nickel	mg/kg	22,000	**7.5**	**12.5 J**	**26.2 J**	5.7 B	**27.1**	**15.5**	**12.7**
Selenium	mg/kg	5,800	**3.5**	3.8 U	4.5 U	2.1 B	3.4 U	3.6 U	2.8 U
Silver	mg/kg	5,800	2.1 U	**1.5 J**	3.4 U	2.9 U	2.5 U	2.7 U	2.1 U
Thallium	mg/kg	12	7 UJ	9.6 UJ	11.2 UJ	9.6 U	8.4 U	9.1 U	7.1 U
Vanadium	mg/kg	5,800	**27.2 J**	**1,240**	**687**	**16**	**357**	**460 J**	**42.6 J**
Zinc	mg/kg	350,000	**3,150**	**27.4**	**1,620**	**21.1**	**109**	**298**	**184**
Other									
Cyanide	mg/kg	150	**2**	0.57 U	**0.72 J+**	**1.3**	**0.91**	**0.54 J**	0.66 U

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Table 7
Summary of Inorganics Detected in Soil
Parcel A4
Tradepoint Atlantic
Sparrows Point, Maryland

Parameter	Units	PAL	A4-026-SB-10	A4-027-SB-1	A4-027-SB-5	A4-028-SB-1	A4-028-SB-5
Metal							
Aluminum	mg/kg	1,100,000	N/A	**16,200**	**10,000**	**28,600**	**14,100**
Antimony	mg/kg	470	N/A	2 UJ	2.8 UJ	2.7 UJ	2.9 UJ
Arsenic	mg/kg	3	**4.7**	**1.4 J**	**25.5**	2.2 UJ	**2.4 J**
Barium	mg/kg	220,000	N/A	**125**	**202**	**348 J**	**40.6 J**
Beryllium	mg/kg	2,300	N/A	**1.9**	**0.73 J**	**5.6**	0.64 B
Cadmium	mg/kg	980	N/A	0.26 B	**8.9**	0.54 B	1.5 U
Chromium	mg/kg	120,000	N/A	**1,070**	**603**	**79.8**	**45.7**
Chromium VI	mg/kg	6.3	N/A	1.1 UJ	1.1 UJ	1.1 U	1.1 U
Cobalt	mg/kg	350	N/A	0.93 B	**26.9**	2.9 B	3.7 B
Copper	mg/kg	47,000	N/A	**17 J**	**182 J**	**25.4**	**6.5**
Iron	mg/kg	820,000	N/A	**145,000**	**153,000**	**34,300 J**	**26,900 J**
Lead	mg/kg	800	N/A	**2**	**1,500**	**79 J**	**12.7 J**
Manganese	mg/kg	26,000	N/A	**25,800 J**	**20,700 J**	**4,780 J**	**446 J**
Mercury	mg/kg	350	N/A	0.1 UJ	**0.61 J**	0.1 U	**0.0065 J**
Nickel	mg/kg	22,000	N/A	**12.6**	**73.2**	**11.1**	8.5 B
Selenium	mg/kg	5,800	N/A	**1.9 J**	3.7 U	3.5 U	3.9 U
Silver	mg/kg	5,800	N/A	0.81 B	2.4 B	2.7 U	2.9 U
Thallium	mg/kg	12	N/A	6.6 UJ	9.4 UJ	8.9 U	9.8 U
Vanadium	mg/kg	5,800	N/A	**500 J**	**1,650 J**	**127 J**	**81.5 J**
Zinc	mg/kg	350,000	N/A	**25.1**	**3,720**	**83.1**	**26.7**
Other							
Cyanide	mg/kg	150	N/A	0.52 U	**4.7**	**0.24 J**	0.62 U

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