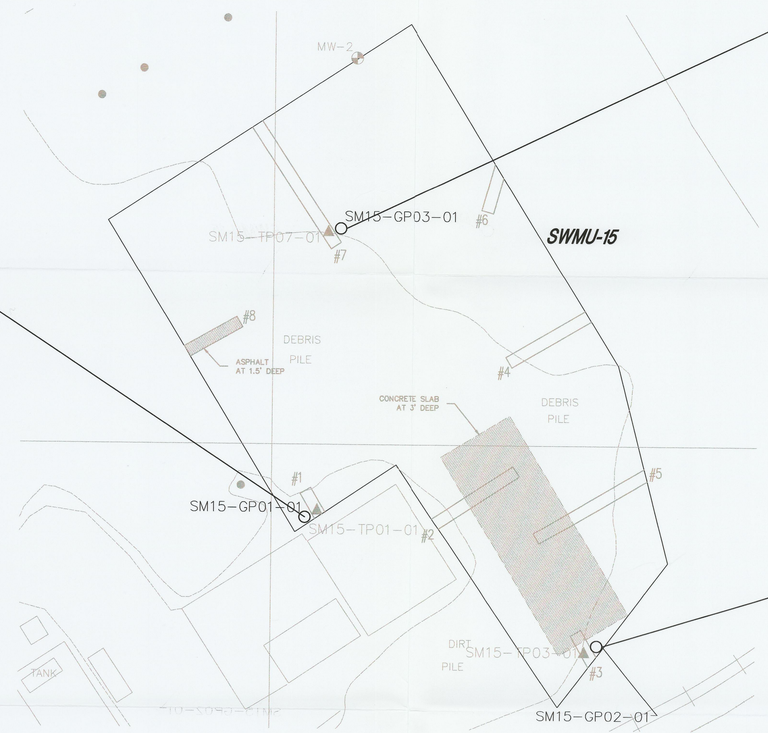
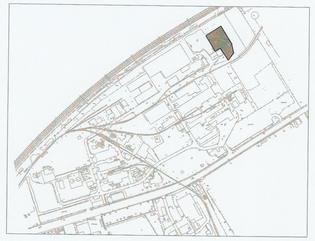
SM15-GP01-01 (16.0 20.0')		RBC EX	MCL EX
VOCs (µg/L)			
1,1,2-Trichloro-1,2,2-trifluoroethane	**16000**	✓	
1,2-Dichloroethane	**5800**	✓	✓
1,4-Dioxane (p-dioxane)	**34000 L**	✓	
4-Methyl-2-pentanone (MIBK)	**3800**	✓	
Acetone	**13000 L**	✓	
Benzene	**10000**	✓	✓
Carbon tetrachloride	**500 J**	✓	
Chloroform	**12000**	✓	
cis-1,2-Dichloroethylene	**100000**	✓	✓
Ethylbenzene	**770 J**	✓	✓
Methylene chloride	**3000**	✓	✓
o-Xylene	**740 J**	✓	
p,m-Xylene	**2800**	✓	
Toluene	**1300 J**	✓	✓
Total 1,2-dichloroethylene	110000		
Trichloroethylene (TCE)	**48000 J**	✓	✓
Xylenes (total)	3700		
SVOCs (µg/L)			
4-Methylphenol (p-cresol)	7.2 J		
Phenol	400		
PESTICIDES (µg/L)			
alpha-BHC	**0.078 J**	✓	
METALS-Total (µg/L)			
Aluminum	492		
Arsenic	**7.1 B**	✓	
Barium	17.4 B		
Boron	201		
Calcium	42500		
Chromium	2.1 B		
Cobalt	23.5 B		
Copper	2.1 B		
Iron	**50600**	✓	
Lead	2 B		
Magnesium	82200		
Manganese	**8960**	✓	
Nickel	6 B		
Potassium	1870 B		
Sodium	107000		
Zinc	23.6		
METALS-Dissolved (µg/L)			
Aluminum	61 B		
Arsenic	**10.4**	✓	✓
Barium	15.3 B		
Boron	205		
Calcium	43700		
Chromium	1 B		
Cobalt	23.2 B		
Copper	3.6 B		
Iron	**50500**	✓	
Lead	2.6 B		
Magnesium	82800		
Manganese	**8940**	✓	
Nickel	5.1 B		
Potassium	1890 B		
Sodium	92600		
Zinc	20.6		
PCBs	ND		

SM15-GP01-01A (16.0 - 20.0')		RBC EX	MCL EX
VOCs (µg/L)			
1,1,2-Trichloro-1,2,2-trifluoroethane	**16000**	✓	
1,2-Dichloroethane	**6100**	✓	✓
1,4-Dioxane (p-dioxane)	**25000 L**	✓	
4-Methyl-2-pentanone (MIBK)	**3700**	✓	
Acetone	**11000 L**	✓	
Benzene	**9600**	✓	✓
Chloroform	**12000**	✓	
cis-1,2-Dichloroethylene	**110000**	✓	✓
Ethylbenzene	**700 J**	✓	
Methylene chloride	**2800 J**	✓	✓
o-Xylene	**700 J**	✓	
p,m-Xylene	**2600 J**	✓	
Toluene	**1100 J**	✓	✓
Total 1,2-dichloroethylene	110000		
Trichloroethylene (TCE)	**44000**	✓	✓
Xylenes (total)	3400 J		
SVOCs (µg/L)			
1,2-Dichlorobenzene	**270**	✓	
4-Methylphenol (p-cresol)	8.3 J		
Acetophenone	**64 J**	✓	
Aniline	5.2 J		
Benzoic Acid	320		
Benzyl alcohol	35 J		
Phenol	470		
PESTICIDES (µg/L)			
alpha-BHC	**0.075 J**	✓	
beta-BHC	0.052 J		
METALS-Total (µg/L)			
Aluminum	516		
Arsenic	**7.2 B**	✓	
Barium	17.9 B		
Boron	203		
Calcium	44300		
Chromium	3.1 B		
Cobalt	24.5 B		
Copper	2.5 B		
Iron	**53000**	✓	
Lead	1.8 B		
Magnesium	83200		
Manganese	**9010**	✓	
Nickel	6.5 B		
Potassium	2020 B		
Sodium	95500		
Zinc	24.2		
METALS-Dissolved (µg/L)			
Aluminum	65.4 B		
Arsenic	**6.9 B**	✓	
Barium	15.4 B		
Boron	194		
Calcium	42000		
Chromium	1 B		
Cobalt	23.8 B		
Copper	1.8 B		
Iron	**43800**	✓	
Lead	2.8 B		
Magnesium	79200		
Manganese	**8220**	✓	
Nickel	5.6 B		
Potassium	1970 B		
Sodium	98800		
Zinc	21.4		
PCBs	ND		



SM15-GP03-01 (4.0 - 8.0')		RBC EX	MCL EX
VOCs (µg/L)			
1,1-Dichloroethane	3 J		
Acetone	5.5		
Benzene	**22**	✓	✓
Chlorobenzene	**130**	✓	✓
Chloroform	**3.1 B**	✓	
cis-1,2-Dichloroethylene	**67**	✓	
Tetrachloroethylene (PCE)	**1.5 J**	✓	
Total 1,2-dichloroethylene	69		
Trichloroethylene (TCE)	**15**	✓	✓
Vinyl chloride	**24**	✓	✓
METALS-Total (µg/L)			
Aluminum	**12300**	✓	
Antimony	**12 B**	✓	✓
Arsenic	**35.1**	✓	✓
Barium	118 B		
Beryllium	0.9 B		
Boron	3180		
Cadmium	0.65 B		
Calcium	152000		
Chromium	**52.6**	✓	
Cobalt	20.3 B		
Copper	**2200**	✓	✓
Iron	**13500**	✓	
Lead	**93.6**		✓
Magnesium	53300		
Manganese	**946**	✓	
Mercury	1.8		
Nickel	29.8 B		
Potassium	23800		
Sodium	68100		
Vanadium	**37.8 B**	✓	
Zinc	120		
METALS-Dissolved (µg/L)			
Aluminum	272		
Antimony	**15.6 B**	✓	✓
Arsenic	**18.4**	✓	✓
Barium	54.1 B		
Boron	3530		
Calcium	156000		
Chromium	1 B		
Cobalt	6 B		
Copper	56.9		
Iron	947		
Magnesium	52200		
Manganese	**717**	✓	
Mercury	0.49		
Nickel	9.2 B		
Potassium	24900		
Sodium	72500		
Zinc	13.9 B		



PLAN VIEW

SCALE: 1"=600'

SM15-GP02-01 (16.0 - 20.0')		RBC EX	MCL EX
VOCs (µg/L)			
cis-1,2-Dichloroethylene	**2400**	✓	✓
Methylene chloride	**17 J**	✓	✓
o-Xylene	**28 J**	✓	
Total 1,2-dichloroethylene	2500		
Trichloroethylene (TCE)	**950 J**	✓	✓
Xylenes (total)	28 J		
SVOCs (µg/L)			
1,2-Dichlorobenzene	6 J		
Aniline	0.63 J		
bis(2-Ethylhexyl)phthalate	2.1 J		
Di-n-butyl phthalate	0.52 J		
PESTICIDES (µg/L)			
alpha-BHC	**1.4 J**	✓	
beta-BHC	**4.6 J**	✓	
delta-BHC	0.96 J		
METALS-Total (µg/L)			
Barium	94.6 B		
Boron	474		
Chromium	2.3 B		
Copper	2.6 B		
Lead	2.3 B		
Zinc	11.4 B		
METALS-Dissolved (µg/L)			
Barium	87.4 B		
Boron	490		
Copper	1.6 B		
Lead	1.7 B		
HERBICIDES	ND		
GENERAL CHEMISTRY	ND		

LEGEND

- TEST PIT SOIL SAMPLE LOCATION
- GEOPROBE GROUNDWATER SAMPLE LOCATION
- MONITORING WELL LOCATION
- EXTENT OF SOLID WASTE MANAGEMENT UNIT (SWMU)
- TEST PIT LOCATION
- OBJECT ENCOUNTERED IN TEST PIT

RBC EX – TAPWATER RISK BASED CONCENTRATION EXCEEDANCE

MCL EX – MAXIMUM CONTAMINANT LEVEL EXCEEDANCE

Qualifers:

B = Not detected substantially above the level reported in laboratory or field blanks.
BE = Not detected substantially above the level reported in laboratory or field blanks and calibration was exceeded.
D = Sample was diluted and reanalyzed.
DJ= The reported concentration for this analyte has been diluted and is an estimated value.
E = Calibration was exceeded. The sample was not reanalyzed at a dilution.
J = The reported concentration for this analyte is an estimated value.
K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

NOTE:

DUPLICATE SAMPLES ARE DESIGNATED WITH AN "A" SUFFIX (i.e. SM15-GP01-01A IS A DUPLICATE OF SM15-GP01-01).

north

0 7.5 15 30

SCALE: FEET
1"=30'

RFI REPORT
DELAWARE VALLEY WORKS FACILITY
CLAYMONT, DELAWARE

SWMU 15 GROUNDWATER SAMPLE LOCATIONS AND ANALYTICAL DETECTIONS

MWH

FIGURE 17

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