DRAFT

Pond ABC Sampling and Analysis Report

The work consisted of conducting in-situ dredge material sampling and analytical laboratory analysis at Pond ABC in accordance with the requirements of Condition I.F.11 of Possum Point Power Station's VPDES Permit (Permit No. VA0002071).

Project Background

Pond ABC was originally designed and constructed in the mid-1950's and has been used as a settling basin for Coal Combustion Byproduct (CCB) material. Pond ABC was formed by constructing earthen embankment dams to retain sluiced ash from the Possum Point Power Station.

Based on a review of the available information concerning the pond construction and ash placement, it is estimated that Pond ABC contains approximately 335,000 cubic yards (CY) of ash. The depth of ash varies along the pond, but it is estimated that the average thickness is approximately 10 feet.

As part of the clean closure activities planned for Pond ABC, ash is proposed to be mechanically dredged from the pond and transported to Pond D. In order to meet the requirements of Condition I.F.11 of the VPDES Permit, the dredge material was sampled and analyzed.

Scope of Work

The Pond ABC sampling and laboratory analysis were completed in accordance with applicable state and federal guidelines, regulations, and requirements as applicable to the subsurface conditions encountered. The sampling and laboratory analysis evaluated the ash material for comparison to criteria established under Condition I.F.11 of the VPDES Permit.

In accordance with Condition I.F.11 of the VPDES Permit, for volumes greater than 300,000 CY, one representative sample is required for each 100,000 CY of dredge material. The sample should be a composite of the proposed dredge material to the depth of the intended dredge. Based on evaluation of the ash thickness and pond dimensions, the dredge volume from Pond ABC has been estimated to be approximately 335,000 CY. Using a volume estimate factor of 20% to account for additional volumes due to estimation error and over excavation of pond bottom material, the final estimated volume of dredge is 402,000 CY.

Based on an estimated 402,000 CY of dredge, and in accordance with the requirements of one sample per 100,000 CY of dredge material, a total of five representative samples plus one quality assurance/quality control (QA/QC) sample (six total samples) were collected.

Sample Location Determination

To facilitate collection of samples representative of the approximately 17.4 acre pond and estimated thickness of ash, a total of five soil borings were advanced across Pond ABC. Boring locations were selected using a systematic random sampling technique in order to generate a representative sampling of the pond material. Soil boring locations were generated using the Visual Sampling Plan (VSP) Software. VSP is a software tool developed by Pacific Northwest National Laboratory (PNNL) for the United States (US) Department of Energy (DOE). The software was designed for selecting the right number and/or location of environmental samples so that the results of the statistical tests performed on the data collected via the sampling plan would have the required confidence for decision making.

Using the simple random sampling option of VSP, random sampling locations were generated within a pre-defined study area. Using the general perimeter of Pond ABC as the study area and specifying a total of 5 sample locations, a sample location map was developed. Black diamond symbols presented on the attached Figure 1 (Exhibit A) represent the sample locations generated using the VSP software.

Due to conflicts with overhead power lines, one sample location (ABC 3) was slightly adjusted. The final locations of adjusted samples are presented as blue squares on the attached Figure 1. Coordinates for each sample location are provided in the attached Table 1 (Exhibit B).

Sample Collection

Soil borings were advanced at the designated sample locations to facilitate collection of the required dredge material samples. Soil borings advanced within the ash areas of the pond were advanced using a track mounted drilling rig. Soil borings advanced within the ash areas were backfilled with auger cuttings.

In all cases, soil borings were advanced from the ground/water surface to a depth of at least two feet below the bottom of the ash material or auger refusal, whichever was encountered first. For this investigation, auger refusal was not encountered in any of the boreholes prior to reaching the planned depth of drilling.

Soil borings were advanced using a combination of continuous split-spoon sampling and hollow stem auger drilling. Each split-spoon sample was examined by the GAI field environmental scientist immediately after removal from the sampler, visually characterized, and inspected for the presence of staining, discoloration, separate-phase hydrocarbon product, or other visible indicators of contamination. The split spoon samples were scanned with a photoionization detector (PID), calibrated daily to isobutylene, for the presence and concentration of volatile organic vapors. Soil boring logs with ash/soil descriptions and PID readings for each of the soil borings were prepared by the GAI environmental scientist and are provided in the attached Exhibit C.

GAI collected six environmental samples (one sample per soil boring plus one QA/QC sample) for laboratory analyses to evaluate the proposed dredge material. The sample collected for laboratory analysis of all parameters, excluding the volatile organic fraction, was collected as a single composite from each soil boring. A composite sample was collected by retaining a portion of each split-spoon retrieved from a given soil boring in a clean disposable container. Once an individual soil boring was completed, the retained sample was transferred to a stainless steel mixing bowl and thoroughly mixed. The thoroughly mixed sample was then transferred in equal portions to appropriate laboratory supplied sample jars.

For collection of the volatile organic fraction, each split spoon was visually examined for the presence of suspected contamination and screened with a PID. Soil samples for volatile organic analyses were selected from a discrete interval in each boring exhibiting the highest PID readings or other indicators of possible impacts. If no indicators of potential impacts were observed, the sample was collected from a randomly selected depth interval. Selection of the depth interval took into consideration previously completed soil borings in an effort to distribute samples between the top, middle, and bottom thirds of the dredge material. Samples collected for the volatile organic fraction analyses were transferred into the appropriate laboratory provided sample jars or pre-preserved sample vials depending on the analyses required.

Equipment used for sample collection was properly decontaminated before use to prevent cross-contamination from prior sampling locations. Field sampling equipment used to collect or hold non-aqueous samples were decontaminated prior to use as follows:

1. Remove visible contamination from the equipment using a brush and/or paper towel saturated with potable water and laboratory grade soap.
2. Rinse the equipment with potable water to remove residual soap and solids.
3. Rinse the equipment with distilled/deionized water meeting ASTM Type II specifications.

Laboratory Analysis

Samples collected for laboratory analysis were properly labeled with the sampling time, date, and sample identification, and were immediately placed into an iced chest and maintained at four degrees Celsius. Samples were submitted, under chain of custody procedures, to ALS Environmental, a VA

certified analytical laboratory, under a standard turn-around for results. Samples were submitted for analysis of the required parameters and using appropriate laboratory test methods as specified in Condition 11 of VPDES Permit No. VA0002071.

Reporting

Results of the completed laboratory analysis are presented in the attached Exhibit D. Analytical results are presented on the appropriate VPDES Permit No. VA0002071, Dredge Spoils Monitoring, Attachment B forms. The ALS laboratory analytical data reports providing all results for the submitted samples are provided in Exhibit E. Analytical results indicate all constituent concentrations are below applicable threshold values provided in Attachment B of VPDES Permit No. VA0002071.

EXHIBIT A
Figure 1 – Sample Locations

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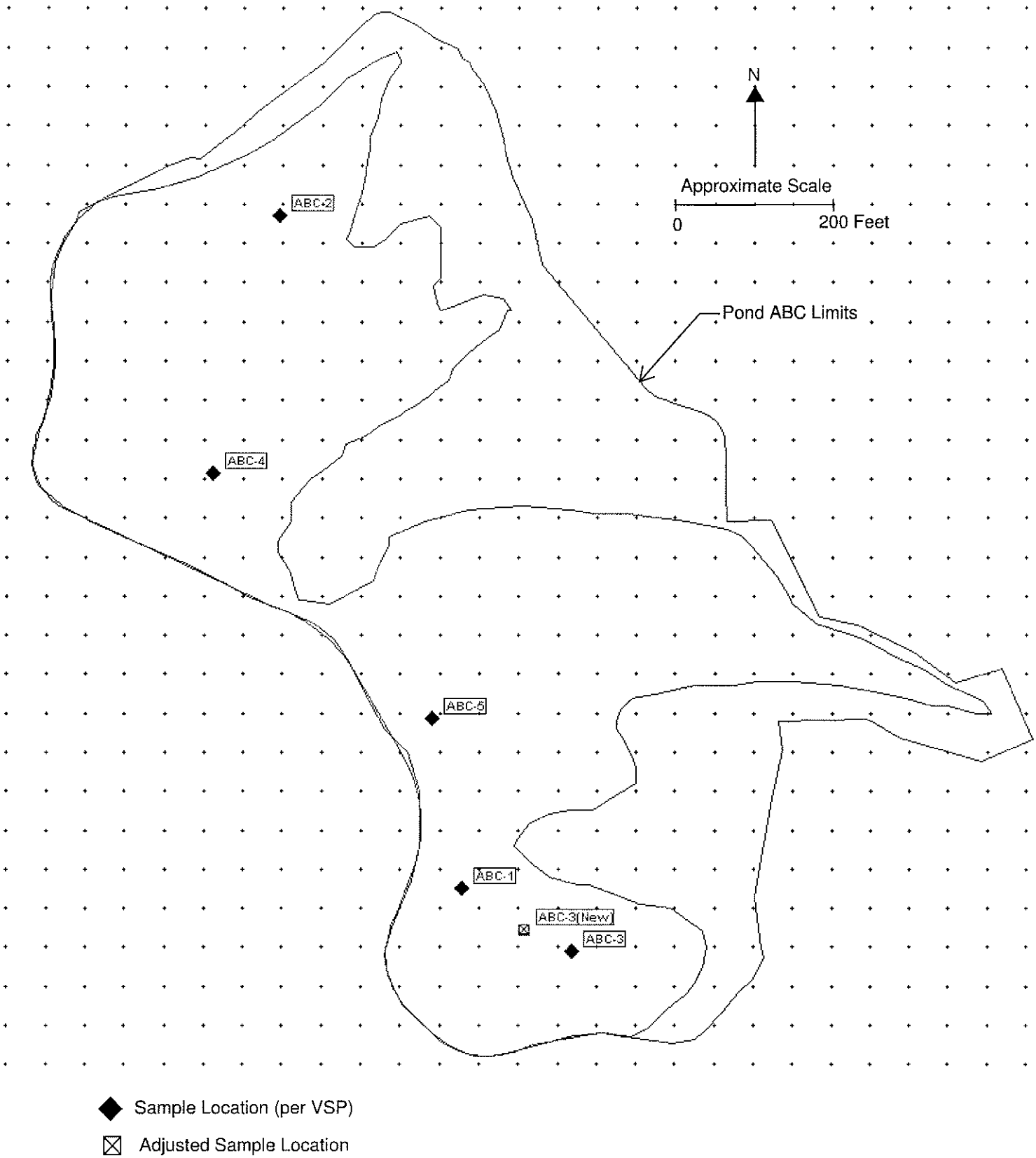

Figure 1 - Sample Locations
Pond ABC Sampling and Analysis

EXHIBIT B
Table 1 – Sample Location Coordinates

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Table 1
Pond ABC Sampling and Analysis
Sample Location Coordinates

Sample Location	Easting	Northing
ABC-1	11830728.4528	6882725.1720
ABC-2	11830495.6403	6883584.6164
ABC-3	11830868.1403	6882643.3202
ABC-4	11830411.2457	6883257.2090
ABC-5	11830690.6207	6882943.4436

Adjusted Locations	Easting	Northing
ABC-3 (New)	11830808.1400	6882672.2600

EXHIBIT C
Boring Logs

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PROJECT Possum Point Ash Pond ABC

ELEVATION N/A
DATE 6/8/15
LOGGED BY EJC

GW level while drilling- 4.00

BORING # ABC 1
PROJECT # C150132.00.049
PAGE 1 of 1

DEPTH (FEET)	RECOVERY IN FEET / % RECOVERY	BLOW COUNTS / 0.5 FT	SAMPLE TYPE AND NO. / PROFILE	SOIL CONSISTENCY	COLOR	MATERIAL CLASSIFICATION	PHOTOIONIZATION DETECTOR READING (ppm)	REMARKS*
1	2	3	4	5	6	7	8	9
		W.O.H. / 6	S-1		Dark gray / black	Coal fly ash (fine to coarse)	3.8	No odor, moist
1.0	0.67	2						
		1	(0-2)'	Very loose		* TCLP VOC and VOC samples collected		
2.0	34%	0						
		W.O.H. / 18	S-2				3.1	No odor, moist
3.0	0.25							
			(2-4)'	Very loose				
4.0	13%	1						
		W.O.H. / 24	S-3				0.0	No odor, wet
5.0	0.00							
			(4-6)'	Very loose				
6.0	0%							
		W.O.H. / 24	S-4				0.0	No odor, wet
7.0	1.25							
			(6-8)'	Very loose				
8.0	63%							
		1/24	S-5				0.0	No odor, wet
9.0	0.25							
			(8-10)'	Very loose				
10.0	13%							
			S-6				0.0	No odor, wet
11.0	0.00					SPOON SANK DOWN TO 14 FT.		
			(10-12)'	Very loose		WHEN TAKING THE 10 FT. SAMPLE		
12.0	0%							
			S-7				0.0	No odor, wet
13.0	0.00							
			(12-14)'	Very loose				
14.0	0%							
		1/24	S-8				0.0	No odor, wet
15.0	0.25							
			(14-16)'	Very loose				
16.0	13%					BOTTOM OF COAL ASH AT 16 FT.		
		5	S-9		Light brown/gray	Fine to coarse gravelly sand with clay	0.0	No odor, wet
17.0	1.5	5				(SP-CL)		
		5	(16-18)'	Medium				
18.0	75%	5		dense				
		4	S-10				0.0	No odor, moist
19.0	1.0	5						
		6	(18-20)'	Medium				
20.0	50%	6		dense		END OF BORING AT 20 FT.		

Borings completed by Connelly and Associates, Inc. using a Diedrich D50 Track Rig with 2¼" HSA with SPT.
W.O.H./W.O.R.- Weight of Hammer/ Weight of Rods is equivalent to 0 blow counts while the spoon advances a certain increment in feet.
* Sample submitted to laboratory for analysis.

BORING NO.: ABC 1

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PROJECT Possum Point Ash Pond ABC

ELEVATION N/A
DATE 6/9/15
LOGGED BY EJC

GW level while drilling- 3.00

BORING # ABC 2
PROJECT # C150132.00.049
PAGE 1 of 1

DEPTH (FEET)	RECOVERY IN FEET / % RECOVERY	BLOW COUNTS / 0.5 FT	SAMPLE TYPE AND NO. / PROFILE	SOIL CONSISTENCY	COLOR	MATERIAL CLASSIFICATION	PHOTOIONIZATION DETECTOR READING (ppm)	REMARKS*
1	2	3	4	5	6	7	8	9
		1/12	S-1		Dark gray / black	Coal fly ash (fine to coarse)	0.0	No odor, very dry
1.0	1.33							
		1/12	(0-2)'	Loose				
2.0	50%							
		2	S-2				0.0	No odor, moist
3.0	1.67	1/18				* TCLP VOC and VOC samples collected		
			(2-4)'	Very loose				
4.0	84%							
		1/12	S-3				0.0	No odor, wet
5.0	2.00							
		1/12	(4-6)'	Very loose				
6.0	100%							
		W.O.H./18	S-4				0.0	No odor, wet
7.0	2.0							
			(6-8)'	Very loose				
8.0	100%	3						
		W.O.H./12	S-5	Very loose			0.0	No odor, wet
9.0	2.0					BOTTOM OF COAL ASH AT 9 FT.		
		5	(8-10)'	Medium	Light brown to	Fine to coarse sand, trace clay (SP)	0.0	No odor, wet
10.0	100%	7		dense	light gray			
		4	S-6				0.0	No odor, wet
11.0	2.0	6						
		6	(10-12)'	Medium				
12.0	100%	7		dense		END OF BORING AT 12 FT.		

Borings completed by Connelly and Associates, Inc. using a Diedrich D50 Track Rig with 2¼" HSA with SPT.
W.O.H./W.O.R.- Weight of Hammer/ Weight of Rods is equivalent to 0 blow counts while the spoon advances a certain increment in feet.
* Sample submitted to laboratory for analysis.

BORING NO.: ABC 2

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PROJECT Possum Point Ash Pond ABC

ELEVATION N/A
DATE 6/9/15
LOGGED BY EJC

GW level while drilling- 5.00

BORING # ABC 3 (New)
PROJECT # C150132.00.049
PAGE 1 of 1

DEPTH (FEET)	RECOVERY IN FEET / % RECOVERY	BLOW COUNTS / 0.5 FT	SAMPLE TYPE AND NO. / PROFILE	SOIL CONSISTENCY	COLOR	MATERIAL CLASSIFICATION	PHOTOIONIZATION DETECTOR READING[1] (ppm)	REMARKS*
1	2	3	4	5	6	7	8	9
		1	S-1		Dark gray / black	Coal fly ash (fine to coarse)	0.0	No odor, moist
1.0	0.17	1/12						
			(0-2)'	Very loose				
2.0	9%	1						
		1/24	S-2				0.0	No odor, wet
3.0	0.25							
			(2-4)'	Very loose				
4.0	13%							
		W.O.H./ 24	S-3				0.0	No odor, wet
5.0	1.0					* TCLP VOC and VOC samples collected		
			(4-6)'	Very loose				
6.0	50%							
		W.O.H./ 24	S-4				0.0	No odor, wet
7.0	1.0							
			(6-8)'	Very loose				
8.0	50%							
		W.O.H./24	S-5				0.0	No odor, wet
9.0	2.0							
			(8-10)'	Very loose				
10.0	100%							
		W.O.H./24	S-6				0.0	No odor, wet
11.0	0.75							
			(10-12)'	Very loose				
12.0	38%							
		W.O.H./24	S-7				0.0	No odor, wet
13.0	1.67							
			(12-14)'	Very loose				
14.0	84%							
		W.O.H./24	S-8				0.0	No odor, wet
15.0	1.0							
			(14-16)'	Very loose				
16.0	50%							
		W.O.H./24	S-9				0.0	No odor, wet
17.0	1.33							
			(16-18)'	Very loose				
18.0	67%							
		W.O.H./12	S-10	Very loose			0.0	No odor, wet
19.0	2.0					BOTTOM OF COAL ASH AT 19 FT.		
		6	(18-20)'	Medium	Light brown to	Fine to coarse silty sand (SM)	0.0	No odor, wet
20.0	100%	7		dense	light gray			
		8	S-11				0.0	No odor, wet
21.0	2.0	9						
		9	(20-22)'	Medium				
22.0	100%	14		dense		END OF BORING AT 22 FT.		

Borings completed by Connelly and Associates, Inc. using a Diedrich D50 Track Rig with 2nd HSA with SPT.
W.O.H./W.O.R.- Weight of Hammer/ Weight of Rods is equivalent to 0 blow counts while the spoon advances a certain increment in feet.
* Sample submitted to laboratory for analysis.

BORING NO.: ABC 3 (New)

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PROJECT Possum Point Ash Pond ABC

ELEVATION N/A
DATE 6/9/15
LOGGED BY EJC

GW level while drilling- 5.00

BORING # ABC 4
PROJECT # C150132.00.049
PAGE 1 of 1

DEPTH (FEET)	RECOVERY IN FEET / % RECOVERY	BLOW COUNTS / 0.5 FT	SAMPLE TYPE AND NO. / PROFILE	SOIL CONSISTENCY	COLOR	MATERIAL CLASSIFICATION	PHOTOIONIZATION DETECTOR READING [1] (ppm)	REMARKS*
1	2	3	4	5	6	7	8	9
		3	S-4		Dark gray / black	Coal fly ash (fine to coarse)	0.0	No odor, dry
1.0	1.0	3						
		3	(6-8)'	Loose				
2.0	50%	2						
		2	S-4				0.0	No odor, dry
3.0	1.25	1						
		1/12	(6-8)'	Loose				
4.0	63%							
		1	(6-8)'	Loose			0.0	No odor, moist
5.0	1.17	1						
		1/12	(4-6)'	Very loose				
6.0	59%							
		W.O.H./24	S-4				0.0	No odor, wet
7.0	1.5							
			(6-8)'	Loose				
8.0	75%							
		W.O.H./24	S-5				0.0	No odor, wet
9.0	2.0							
			(8-10)'	Very loose				
10.0	100%							
		W.O.H./24	S-6				0.0	No odor, wet
11.0	2.0							
			(10-12)'	Very loose				
12.0	100%							
		W.O.H./24	S-7				0.0	No odor, wet
13.0	1.7							
			(12-14)'	Very loose				
14.0	84%							
		W.O.H./24	S-8				0.0	No odor, wet
15.0	2.0							
			(14-16)'	Very loose				
16.0	100%							
		W.O.H./24	S-9				0.0	No odor, wet
17.0	2.0					* TCLP VOC and VOC samples collected		
			(16-18)'	Very loose				
18.0	100%							
		W.O.H./12	S-10				0.0	No odor, wet
19.0	2.0			Very loose		BOTTOM OF COAL ASH AT 19 FT.		
		3	(18-20)'	Loose	Light brown	Fine to coarse sand (SP)	0.0	No odor, wet
20.0	100%	4						
		3	S-11				0.0	No odor, wet
21.0	2.0	4						
		5	(20-22)'	Medium				
22.0	100%	9		dense				

Borings completed by Connelly and Associates, Inc. using a Diedrich D50 Track Rig with 2¼" HSA with SPT.
W.O.H./W.O.R.- Weight of Hammer/ Weight of Rods is equivalent to 0 blow counts while the spoon advances a certain increment in feet.
* Sample submitted to laboratory for analysis.

BORING NO.: ABC 4

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PROJECT Possum Point Ash Pond ABC

ELEVATION N/A
DATE 6/8/15
LOGGED B' EJC

GW level while drilling- 4.00

BORING # ABC 5
PROJECT # C150132.00.049
PAGE 1 of 1

DEPTH (FEET)	RECOVERY IN FEET / % RECOVERY	BLOW COUNTS / 0.5 FT	SAMPLE TYPE AND NO. / PROFILE	SOIL CONSISTENCY	COLOR	MATERIAL CLASSIFICATION	PHOTOIONIZATION DETECTOR READING[1] (ppm)	REMARKS*
1	2	3	4	5	6	7	8	9
		W.O.H./6	S-1		Dark gray / black	Coal fly ash (fine to coarse)	0.0	No odor, moist
1.0	0.67	1						
		1	(0-2)'	Very loose				
2.0	34%	1						
		1	S-2				0.0	No odor, moist
3.0	0.33	1						
		1	(2-4)'	Very loose				
4.0	17%	1						
		W.O.H./24	S-4				0.0	No odor, wet
5.0	1.0							
			(4-6)'	Very loose				
6.0	100%							
		W.O.H./24	S-4				0.0	No odor, wet
7.0	0.67							
			(6-8)'	Very loose				
8.0	34%							
		W.O.H./24	S-5				0.0	No odor, wet
9.0	1.0							
			(8-10)'	Very loose		* TCLP VOC and VOC samples collected		
10.0	50%							
		W.O.H./24	S-6				0.0	No odor, wet
11.0	0.42							
			(10-12)'	Very loose				
12.0	21%							
		W.O.H./12	S-7				0.0	No odor, wet
13.0	1.50							
		W.O.H./12	(12-14)'	Very loose				
14.0	75%							
		W.O.H./24	S-8				0.0	No odor, wet
15.0	1.50							
			(14-16)'	Very loose				
16.0	75%							
		W.O.H./24	S-9				0.0	No odor, wet
17.0	1.50							
			(16-18)'	Very loose				
18.0	75%							
		W.O.H./24	S-10				0.0	No odor, wet
19.0	1.50							
			(18-20)'	Very loose				
20.0	75%							
		W.O.H./24	S-11				0.0	No odor, wet
21.0	1.67							
			(20-22)'	Very loose				
22.0	84%							
		W.O.H./24	S-12				0.0	No odor, wet
23.0	1.50							
			(22-24)'	Very loose				
24.0	75%							
		W.O.H./24	S-13				0.0	No odor, wet
25.0	1.50							
			(24-26)'	Very loose				
26.0	75%					BOTTOM OF COAL ASH AT 26 FT.		
		4	S-14		Light brown	Fine to coarse silty sand (SM)	0.0	No odor, wet
27.0	1.33	3		Loose				
		2	(26-28)'					
28.0	67.0	2						
		6	S-15		Light brown to light gray	Silt, trace of fine to medium sand (ML)	0.0	No odor, wet
29.0	1.50	7						
		9	(28-30)'	Very Stiff				
30.0	75%	10				END OF BORING AT 30 FT.		

Borings completed by Connelly and Associates, Inc. using a Diedrich D50 Track Rig with 2¼" HSA with SPT.
W.O.H./W.O.R.- Weight of Hammer/ Weight of Rods is equivalent to 0 blow counts while the spoon advances a certain increment in feet.
* Sample submitted to laboratory for analysis.

BORING NO.: ABC 5

EXHIBIT D
VPDES Permit No. VA0002071 Attachment B Forms

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DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 1

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level (1) (mg/l)	Reporting Results (1) (mg/l)	Sample Type (2)	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	4.0	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 1

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	1.7	4.5	G
457	1327-53-3	Arsenic III	1632	0.240	5.36	G
441	16055-83-1	Chromium III	Calculation	3.7	21.3	G
231	18540-29-9	Chromium VI	7196A	3.6	< 3.6	G
442	744-50-8	Copper	6020A	4.2	59.0	G
445	7440-02-0	Nickel	6020A	4.2	30.1	G
--	7440-28-0	Thallium	6020A	0.83	1.4	G
448	7440-66-6	Zinc	6020A	4.2	26.1	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.015	< 0.015	G
334		Chlorpyrifos Dursban	8141B	0.062	< 0.062	G
--	72-54-8	DDD	8081B	0.0292	< 0.0292	G
--	72-55-9	DDE	8081B	0.0292	< 0.0292	G
335	50-29-3	DDT	8081B	0.0292	< 0.0292	G
336	8065-48-3	Demeton	8141B	0.062	< 0.062	G
337	60-57-1	Dieldrin	8081B	0.0292	< 0.0292	G
746	959-98-8	Alpha-Endosulfan	8081B	0.015	< 0.015	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0292	< 0.0292	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0292	< 0.0292	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0292	< 0.0292	G
340	86-50-0	Guthion	8141B	0.062	< 0.062	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.015	< 0.015	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.015	< 0.015	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.015	< 0.015	G
--	143-50-0	Kepone	8270D	1.75	< 1.75	G
343	121-75-5	Malathion	8141B	0.062	< 0.062	G
345	2385-85-5	Mirex	8081B	0.0292	< 0.0292	G
346	56-38-2	Parathion	8141B	0.062	< 0.062	G
--	1336-36-3	Total PCB	8082A	0.058	< 0.058	G
641	53469-21-9	PCB-1242	8082A	0.058	< 0.058	G
642	11097-69-1	PCB-1254	8082A	0.058	< 0.058	G
643	11104-28-2	PCB-1221	8082A	0.058	< 0.058	G
644	11141-16-5	PCB-1232	8082A	0.058	< 0.058	G
645	12672-29-6	PCB-1248	8082A	0.058	< 0.058	G
618	11096-82-5	PCB-1260	8082A	0.058	< 0.058	G
646	12674-11-2	PCB-1016	8082A	0.058	< 0.058	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.175	< 0.175	G
275	120-12-7	Anthracene	8270D	0.175	< 0.175	G
--	92-87-5	Benzidine	8270D	1.4	< 1.4	G
276	56-55-3	Benzo(a) anthracene	8270D	0.175	< 0.175	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 1

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.175	< 0.175	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.175	< 0.175	G
277	50-32-8	Benzo(a)pyrene	8270D	0.175	< 0.175	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.175	< 0.175	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.175	< 0.175	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.175	< 0.175	G
--	91-58-7	2-Chloronaphthalene	8270D	0.175	< 0.175	G
282	218-01-9	Chrysene	8270D	0.175	< 0.175	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.175	< 0.175	G
206	84-74-2	Dibutyl phthalate	8270D	0.175	< 0.175	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.175	< 0.175	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.175	< 0.175	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.262	< 0.262	G
285	84-66-2	Diethyl phthalate	8270D	0.175	< 0.175	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.175	< 0.175	G
286	131-11-3	Dimethyl Phthalate	8270D	0.175	< 0.175	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.175	< 0.175	G
287	206-44-0	Fluoranthene	8270D	0.175	< 0.175	G
288	86-73-7	Fluorene	8270D	0.175	< 0.175	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.472	< 0.472	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.175	< 0.175	G
650	78-59-1	Isophorone	8270D	0.175	< 0.175	G
293	91-20-3	Naphthalene	8270D	0.175	< 0.175	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.175	< 0.175	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.175	< 0.175	G
575	621-64-7	N-Nitrosodi-n-propiyamine	8270D	0.175	< 0.175	G
296	129-00-0	Pyrene	8270D	0.175	< 0.175	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.175	< 0.175	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.061	< 0.061	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0122	< 0.0122	G
484	75-25-2	Bromoform	8260B	0.0024	< 0.0024	G
652	124-48-1	Chlorodibromomethane	8260B	0.0024	< 0.0024	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0024	< 0.0024	G
244	75-27-4	Dichlorobromomethane	8260B	0.0024	< 0.0024	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0024	< 0.0024	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0024	< 0.0024	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0049	< 0.0049	G
172	100-41-4	Ethylbenzene	8260B	0.0024	< 0.0024	G
--	74-83-9	Methyl Bromide	8260B	0.0024	< 0.0024	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0122	< 0.0122	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0024	< 0.0024	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 1

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0024	< 0.0024	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0024	< 0.0024	G
155	79-01-6	Trichloroethylene	8260B	0.0024	< 0.0024	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.472	< 0.472	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.350	< 0.350	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.472	< 0.472	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.472	< 0.472	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.350	< 0.350	G
175	108-95-2	Phenol	8270D	0.472	< 0.472	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.48	< 0.48	G
350		Tributyltin	Krone	0.0016	< 0.0016	G
257		TPH (Total petroleum Hydrocarbons)	9071B	377	< 377	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4
FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 2

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level (1) (mg/l)	Reporting Results (1) (mg/l)	Sample Type (2)	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	3.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	<0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	<0.16	G	200.0
512		Cresols, Total	1311	0.16	<0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	<0.060	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	<0.060	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	<0.060	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	<0.060	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	<0.060	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	<0.060	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	<0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	<0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	<0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	<0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.020	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 2

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	0.11	0.16	G
457		Arsenic III	1632	1.96	15.0	G
441	16055-83-1	Chromium III	Calculation	3.5	<3.5	G
231	18540-29-9	Chromium VI	7196A	3.4	< 3.4	G
442	744-50-8	Copper	6020A	0.27	1.7	G
445	7440-02-0	Nickel	6020A	0.27	0.73	G
	7440-28-0	Thallium	6020A	0.053	<0.053	G
448	7440-66-6	Zinc	6020A	0.27	1.1	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0146	< 0.0146	G
334		Chlorpyrifos Dursban	8141B	0.0604	< 0.0604	G
--	72-54-8	DDD	8081B	0.0283	< 0.0283	G
--	72-55-9	DDE	8081B	0.0283	< 0.0283	G
335	50-29-3	DDT	8081B	0.0283	< 0.0283	G
336	8065-48-3	Demeton	8141B	0.0604	< 0.0604	G
337	60-57-1	Dieldrin	8081B	0.0283	< 0.0283	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0146	< 0.0146	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0283	< 0.0283	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0283	< 0.0283	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0283	< 0.0283	G
340	86-50-0	Guthion	8141B	0.0604	< 0.0604	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0146	< 0.0146	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0146	< 0.0146	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0146	< 0.0146	G
--	143-50-0	Kepone	8270D	1.64	< 1.64	G
343	121-75-5	Malathion	8141B	0.0604	< 0.0604	G
345	2385-85-5	Mirex	8081B	0.0283	< 0.0283	G
346	56-38-2	Parathion	8141B	0.0604	< 0.0604	G
--	1336-36-3	Total PCB	8082A	0.057	< 0.057	G
641	53469-21-9	PCB-1242	8082A	0.057	< 0.057	G
642	11097-69-1	PCB-1254	8082A	0.057	< 0.057	G
643	11104-28-2	PCB-1221	8082A	0.057	< 0.057	G
644	11141-16-5	PCB-1232	8082A	0.057	< 0.057	G
645	12672-29-6	PCB-1248	8082A	0.057	< 0.057	G
618	11096-82-5	PCB-1260	8082A	0.057	< 0.057	G
646	12674-11-2	PCB-1016	8082A	0.057	< 0.057	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.164	< 0.164	G
275	120-12-7	Anthracene	8270D	0.164	< 0.164	G
--	92-87-5	Benzidine	8270D	1.31	< 1.31	G
276	56-55-3	Benzo(a) anthracene	8270D	0.164	< 0.164	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 2

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.164	< 0.164	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.164	< 0.164	G
277	50-32-8	Benzo(a)pyrene	8270D	0.164	< 0.164	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.164	< 0.164	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.164	< 0.164	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.164	< 0.164	G
--	91-58-7	2-Chloronaphthalene	8270D	0.164	< 0.164	G
282	218-01-9	Chrysene	8270D	0.164	< 0.164	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.164	< 0.164	G
206	84-74-2	Dibutyl phthalate	8270D	0.164	< 0.164	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.164	< 0.164	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.164	< 0.164	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.246	< 0.246	G
285	84-66-2	Diethyl phthalate	8270D	0.164	< 0.164	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.164	< 0.164	G
286	131-11-3	Dimethyl Phthalate	8270D	0.164	< 0.164	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.164	< 0.164	G
287	206-44-0	Fluoranthene	8270D	0.164	< 0.164	G
288	86-73-7	Fluorene	8270D	0.164	< 0.164	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.442	< 0.442	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.164	< 0.164	G
650	78-59-1	Isophorone	8270D	0.164	< 0.164	G
293	91-20-3	Naphthalene	8270D	0.164	< 0.164	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.164	< 0.164	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.164	< 0.164	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.164	< 0.164	G
296	129-00-0	Pyrene	8270D	0.164	< 0.164	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.164	< 0.164	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.0475	< 0.0475	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0095	< 0.0095	G
484	75-25-2	Bromoform	8260B	0.0019	< 0.0019	G
652	124-48-1	Chlorodibromomethane	8260B	0.0019	< 0.0019	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0019	< 0.0019	G
244	75-27-4	Dichlorobromomethane	8260B	0.0019	< 0.0019	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0019	< 0.0019	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0019	< 0.0019	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0038	< 0.0038	G
172	100-41-4	Ethylbenzene	8260B	0.0019	< 0.0019	G
--	74-83-9	Methyl Bromide	8260B	0.0019	< 0.0019	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0095	< 0.0095	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0019	< 0.0019	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 2

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0019	< 0.0019	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0019	< 0.0019	G
155	79-01-6	Trichloroethylene	8260B	0.0019	< 0.0019	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.442	< 0.442	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.328	< 0.328	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.442	< 0.442	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.442	< 0.442	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.328	< 0.328	G
175	108-95-2	Phenol	8270D	0.442	< 0.442	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.44	< 0.44	G
350		Tributyltin	Krone	0.0016	< 0.0016	G
257		TPH (Total petroleum Hydrocarbons)	9071B	349	819	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 3

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type [2]	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	3.9	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 3

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	0.11	0.13	G
457		Arsenic III	1632	0.498	2.33	G
441	16055-83-1	Chromium III	Calculation	3.7	<3.7	G
231	18540-29-9	Chromium VI	7196A	3.5	< 3.5	G
442	744-50-8	Copper	6020A	0.28	2.0	G
445	7440-02-0	Nickel	6020A	0.28	0.70	G
	7440-28-0	Thallium	6020A	0.057	< 0.057	G
448	7440-66-6	Zinc	6020A	0.28	1.6	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0153	< 0.0153	G
334		Chlorpyrifos Dursban	8141B	0.0624	< 0.0624	G
--	72-54-8	DDD	8081B	0.0296	< 0.0296	G
--	72-55-9	DDE	8081B	0.0296	< 0.0296	G
335	50-29-3	DDT	8081B	0.0296	< 0.0296	G
336	8065-48-3	Demeton	8141B	0.0624	< 0.0624	G
337	60-57-1	Dieldrin	8081B	0.0296	< 0.0296	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0153	< 0.0153	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0296	< 0.0296	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0296	< 0.0296	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0296	< 0.0296	G
340	86-50-0	Guthion	8141B	0.0624	< 0.0624	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0153	< 0.0153	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0153	< 0.0153	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0153	< 0.0153	G
--	143-50-0	Kepone	8270D	1.79	< 1.79	G
343	121-75-5	Malathion	8141B	0.0624	< 0.0624	G
345	2385-85-5	Mirex	8081B	0.0296	< 0.0296	G
346	56-38-2	Parathion	8141B	0.0624	< 0.0624	G
--	1336-36-3	Total PCB	8082A	0.059	< 0.059	G
641	53469-21-9	PCB-1242	8082A	0.059	< 0.059	G
642	11097-69-1	PCB-1254	8082A	0.059	< 0.059	G
643	11104-28-2	PCB-1221	8082A	0.059	< 0.059	G
644	11141-16-5	PCB-1232	8082A	0.059	< 0.059	G
645	12672-29-6	PCB-1248	8082A	0.059	< 0.059	G
618	11096-82-5	PCB-1260	8082A	0.059	< 0.059	G
646	12674-11-2	PCB-1016	8082A	0.059	< 0.059	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.179	< 0.179	G
275	120-12-7	Anthracene	8270D	0.179	< 0.179	G
--	92-87-5	Benzidine	8270D	1.44	< 1.44	G
276	56-55-3	Benzo(a) anthracene	8270D	0.179	< 0.179	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 3

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.179	< 0.179	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.179	< 0.179	G
277	50-32-8	Benzo(a)pyrene	8270D	0.179	< 0.179	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.179	< 0.179	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.179	< 0.179	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.179	< 0.179	G
--	91-58-7	2-Chloronaphthalene	8270D	0.179	< 0.179	G
282	218-01-9	Chrysene	8270D	0.179	< 0.179	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.179	< 0.179	G
206	84-74-2	Dibutyl phthalate	8270D	0.179	< 0.179	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.179	< 0.179	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.179	< 0.179	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.269	< 0.269	G
285	84-66-2	Diethyl phthalate	8270D	0.179	< 0.179	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.179	< 0.179	G
286	131-11-3	Dimethyl Phthalate	8270D	0.179	< 0.179	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.179	< 0.179	G
287	206-44-0	Fluoranthene	8270D	0.179	< 0.179	G
288	86-73-7	Fluorene	8270D	0.179	< 0.179	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.484	< 0.484	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.179	< 0.179	G
650	78-59-1	Isophorone	8270D	0.179	< 0.179	G
293	91-20-3	Naphthalene	8270D	0.179	< 0.179	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.179	< 0.179	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.179	< 0.179	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.179	< 0.179	G
296	129-00-0	Pyrene	8270D	0.179	< 0.179	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.179	< 0.179	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.0529	< 0.0529	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0106	< 0.0106	G
484	75-25-2	Bromoform	8260B	0.0021	< 0.0021	G
652	124-48-1	Chlorodibromomethane	8260B	0.0021	< 0.0021	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0021	< 0.0021	G
244	75-27-4	Dichlorobromomethane	8260B	0.0021	< 0.0021	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0021	< 0.0021	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0021	< 0.0021	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0042	< 0.0042	G
172	100-41-4	Ethylbenzene	8260B	0.0021	< 0.0021	G
--	74-83-9	Methyl Bromide	8260B	0.0021	< 0.0021	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0106	< 0.0106	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0021	< 0.0021	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 3

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0021	< 0.0021	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0021	< 0.0021	G
155	79-01-6	Trichloroethylene	8260B	0.0021	< 0.0021	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.484	< 0.484	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.359	< 0.359	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.484	< 0.484	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.484	< 0.484	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.359	< 0.359	G
175	108-95-2	Phenol	8270D	0.484	< 0.484	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.46	< 0.46	G
350		Tributyltin	Krone	0.0017	< 0.0017	G
257		TPH (Total petroleum Hydrocarbons)	9071B	366	805	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 4

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type [2]	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	3.7	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	0.24	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 4

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	0.11	0.21	G
457		Arsenic III	1632	0.23	3.01	G
441	16055-83-1	Chromium III	Calculation	3.4	<3.4	G
231	18540-29-9	Chromium VI	7196A	3.4	< 3.4	G
442	744-50-8	Copper	6020A	0.26	2.1	G
445	7440-02-0	Nickel	6020A	0.26	0.85	G
	7440-28-0	Thallium	6020A	0.053	0.059	G
448	7440-66-6	Zinc	6020A	0.26	0.87	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0144	< 0.0144	G
334		Chlorpyrifos Dursban	8141B	0.0578	< 0.0578	G
--	72-54-8	DDD	8081B	0.028	< 0.028	G
--	72-55-9	DDE	8081B	0.028	< 0.028	G
335	50-29-3	DDT	8081B	0.028	< 0.028	G
336	8065-48-3	Demeton	8141B	0.0578	< 0.0578	G
337	60-57-1	Dieldrin	8081B	0.028	< 0.028	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0144	< 0.0144	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.028	< 0.028	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.028	< 0.028	G
--	7421-93-4	Endrin Aldehyde	8081B	0.028	< 0.028	G
340	86-50-0	Guthion	8141B	0.0578	< 0.0578	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0144	< 0.0144	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0144	< 0.0144	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0144	< 0.0144	G
--	143-50-0	Kepone	8270D	1.66	< 1.66	G
343	121-75-5	Malathion	8141B	0.0578	< 0.0578	G
345	2385-85-5	Mirex	8081B	0.028	< 0.028	G
346	56-38-2	Parathion	8141B	0.0578	< 0.0578	G
--	1336-36-3	Total PCB	8082A	0.056	< 0.056	G
641	53469-21-9	PCB-1242	8082A	0.056	< 0.056	G
642	11097-69-1	PCB-1254	8082A	0.056	< 0.056	G
643	11104-28-2	PCB-1221	8082A	0.056	< 0.056	G
644	11141-16-5	PCB-1232	8082A	0.056	< 0.056	G
645	12672-29-6	PCB-1248	8082A	0.056	< 0.056	G
618	11096-82-5	PCB-1260	8082A	0.056	< 0.056	G
646	12674-11-2	PCB-1016	8082A	0.056	< 0.056	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.166	< 0.166	G
275	120-12-7	Anthracene	8270D	0.166	< 0.166	G
--	92-87-5	Benzidine	8270D	1.33	< 1.33	G
276	56-55-3	Benzo(a) anthracene	8270D	0.166	< 0.166	G

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Dredge Spoils Monitoring
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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 4

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.166	< 0.166	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.166	< 0.166	G
277	50-32-8	Benzo(a)pyrene	8270D	0.166	< 0.166	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.166	< 0.166	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.166	< 0.166	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.166	< 0.166	G
--	91-58-7	2-Chloronaphthalene	8270D	0.166	< 0.166	G
282	218-01-9	Chrysene	8270D	0.166	< 0.166	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.166	< 0.166	G
206	84-74-2	Dibutyl phthalate	8270D	0.166	< 0.166	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.166	< 0.166	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.166	< 0.166	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.250	< 0.250	G
285	84-66-2	Diethyl phthalate	8270D	0.166	< 0.166	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.166	< 0.166	G
286	131-11-3	Dimethyl Phthalate	8270D	0.166	< 0.166	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.166	< 0.166	G
287	206-44-0	Fluoranthene	8270D	0.166	< 0.166	G
288	86-73-7	Fluorene	8270D	0.166	< 0.166	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.449	< 0.449	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.166	< 0.166	G
650	78-59-1	Isophorone	8270D	0.166	< 0.166	G
293	91-20-3	Naphthalene	8270D	0.166	< 0.166	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.166	< 0.166	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.166	< 0.166	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.166	< 0.166	G
296	129-00-0	Pyrene	8270D	0.166	< 0.166	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.166	< 0.166	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.041	< 0.041	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0082	< 0.0082	G
484	75-25-2	Bromoform	8260B	0.0016	< 0.0016	G
652	124-48-1	Chlorodibromomethane	8260B	0.0016	< 0.0016	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0016	< 0.0016	G
244	75-27-4	Dichlorobromomethane	8260B	0.0016	< 0.0016	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0016	< 0.0016	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0016	< 0.0016	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0033	< 0.0033	G
172	100-41-4	Ethylbenzene	8260B	0.0016	< 0.0016	G
--	74-83-9	Methyl Bromide	8260B	0.0016	< 0.0016	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0082	< 0.0082	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0016	< 0.0016	G

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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 4

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0016	< 0.0016	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0016	< 0.0016	G
155	79-01-6	Trichloroethylene	8260B	0.0016	< 0.0016	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.449	< 0.449	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.333	< 0.333	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.449	< 0.449	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.449	< 0.449	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.333	< 0.333	G
175	108-95-2	Phenol	8270D	0.449	< 0.449	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.42	< 0.42	G
350		Tributyltin	Krone	0.0016	< 0.0016	G
257		TPH (Total petroleum Hydrocarbons)	9071B	336	605	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type [2]	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	0.15	G	5.0
151	7440-39-3	Barium	1311	2.8	5.3	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	1.4	3.2	G
457	1327-53-3	Arsenic III	1632	2.32	23.1	G
441	16055-83-1	Chromium III	Calculation	3.4	17.2	G
231	18540-29-9	Chromium VI	7196A	3.4	< 3.4	G
442	744-50-8	Copper	6020A	3.6	49.9	G
445	7440-02-0	Nickel	6020A	3.6	18.7	G
	7440-28-0	Thallium	6020A	0.71	1.1	G
448	7440-66-6	Zinc	6020A	3.6	31.7	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.014	< 0.014	G
334		Chlorpyrifos Dursban	8141B	0.0567	< 0.0567	G
--	72-54-8	DDD	8081B	0.0272	< 0.0272	G
--	72-55-9	DDE	8081B	0.0272	< 0.0272	G
335	50-29-3	DDT	8081B	0.0272	< 0.0272	G
336	8065-48-3	Demeton	8141B	0.0567	< 0.0567	G
337	60-57-1	Dieldrin	8081B	0.0272	< 0.0272	G
746	959-98-8	Alpha-Endosulfan	8081B	0.014	< 0.014	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0272	< 0.0272	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0272	< 0.0272	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0272	< 0.0272	G
340	86-50-0	Guthion	8141B	0.0567	< 0.0567	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.014	< 0.014	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.014	< 0.014	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.014	< 0.014	G
--	143-50-0	Kepone	8270D	1.66	< 1.66	G
343	121-75-5	Malathion	8141B	0.0567	< 0.0567	G
345	2385-85-5	Mirex	8081B	0.0272	< 0.0272	G
346	56-38-2	Parathion	8141B	0.0567	< 0.0567	G
--	1336-36-3	Total PCB	8082A	0.054	< 0.054	G
641	53469-21-9	PCB-1242	8082A	0.054	< 0.054	G
642	11097-69-1	PCB-1254	8082A	0.054	< 0.054	G
643	11104-28-2	PCB-1221	8082A	0.054	< 0.054	G
644	11141-16-5	PCB-1232	8082A	0.054	< 0.054	G
645	12672-29-6	PCB-1248	8082A	0.054	< 0.054	G
618	11096-82-5	PCB-1260	8082A	0.054	< 0.054	G
646	12674-11-2	PCB-1016	8082A	0.054	< 0.054	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.166	< 0.166	G
275	120-12-7	Anthracene	8270D	0.166	< 0.166	G
--	92-87-5	Benzidine	8270D	1.33	< 1.33	G
276	56-55-3	Benzo(a) anthracene	8270D	0.166	< 0.166	G

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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.166	< 0.166	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.166	< 0.166	G
277	50-32-8	Benzo(a)pyrene	8270D	0.166	< 0.166	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.166	< 0.166	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.166	< 0.166	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.166	< 0.166	G
--	91-58-7	2-Chloronaphthalene	8270D	0.166	< 0.166	G
282	218-01-9	Chrysene	8270D	0.166	< 0.166	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.166	< 0.166	G
206	84-74-2	Dibutyl phthalate	8270D	0.166	< 0.166	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.166	< 0.166	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.166	< 0.166	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.249	< 0.249	G
285	84-66-2	Diethyl phthalate	8270D	0.166	< 0.166	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.166	< 0.166	G
286	131-11-3	Dimethyl Phthalate	8270D	0.166	< 0.166	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.166	< 0.166	G
287	206-44-0	Fluoranthene	8270D	0.166	< 0.166	G
288	86-73-7	Fluorene	8270D	0.166	< 0.166	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.449	< 0.449	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.166	< 0.166	G
650	78-59-1	Isophorone	8270D	0.166	< 0.166	G
293	91-20-3	Naphthalene	8270D	0.166	< 0.166	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.166	< 0.166	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.166	< 0.166	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.166	< 0.166	G
296	129-00-0	Pyrene	8270D	0.166	< 0.166	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.166	< 0.166	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.0473	< 0.0473	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0095	< 0.0095	G
484	75-25-2	Bromoform	8260B	0.0019	< 0.0019	G
652	124-48-1	Chlorodibromomethane	8260B	0.0019	< 0.0019	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0019	< 0.0019	G
244	75-27-4	Dichlorobromomethane	8260B	0.0019	< 0.0019	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0019	< 0.0019	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0019	< 0.0019	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0038	< 0.0038	G
172	100-41-4	Ethylbenzene	8260B	0.0019	< 0.0019	G
--	74-83-9	Methyl Bromide	8260B	0.0019	< 0.0019	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0095	< 0.0095	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0019	< 0.0019	G

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ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0019	< 0.0019	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0019	< 0.0019	G
155	79-01-6	Trichloroethylene	8260B	0.0019	< 0.0019	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.449	< 0.449	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.332	< 0.332	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.449	< 0.449	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.449	< 0.449	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.332	< 0.332	G
175	108-95-2	Phenol	8270D	0.449	< 0.449	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.43	< 0.43	G
350		Tributyltin	Krone	0.0018	< 0.0018	G
257		TPH (Total petroleum Hydrocarbons)	9071B	337	371	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

[2] Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

[3] Any approved method presented in 40 CFR Part 136

[4] The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5 DUP

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type [2]	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	0.25	G	5.0
151	7440-39-3	Barium	1311	2.8	6.9	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5 DUP

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	1.7	3.1	G
457	1327-53-3	Arsenic III	1632	2.44	21.2	G
441	16055-83-1	Chromium III	Calculation	3.4	16.9	G
231	18540-29-9	Chromium VI	7196A	3.3	< 3.3	G
442	744-50-8	Copper	6020A	4.2	47.3	G
445	7440-02-0	Nickel	6020A	4.2	18.1	G
	7440-28-0	Thallium	6020A	0.85	1.1	G
448	7440-66-6	Zinc	6020A	4.2	32.8	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0141	< 0.0141	G
334		Chlorpyrifos Dursban	8141B	0.0575	< 0.0575	G
--	72-54-8	DDD	8081B	0.0273	< 0.0273	G
--	72-55-9	DDE	8081B	0.0273	< 0.0273	G
335	50-29-3	DDT	8081B	0.0273	< 0.0273	G
336	8065-48-3	Demeton	8141B	0.0575	< 0.0575	G
337	60-57-1	Dieldrin	8081B	0.0273	< 0.0273	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0141	< 0.0141	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0273	< 0.0273	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0273	< 0.0273	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0273	< 0.0273	G
340	86-50-0	Guthion	8141B	0.0575	< 0.0575	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0141	< 0.0141	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0141	< 0.0141	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0141	< 0.0141	G
--	143-50-0	Kepone	8270D	1.61	< 1.61	G
343	121-75-5	Malathion	8141B	0.0575	< 0.0575	G
345	2385-85-5	Mirex	8081B	0.0273	< 0.0273	G
346	56-38-2	Parathion	8141B	0.0575	< 0.0575	G
--	1336-36-3	Total PCB	8082A	0.055	< 0.055	G
641	53469-21-9	PCB-1242	8082A	0.055	< 0.055	G
642	11097-69-1	PCB-1254	8082A	0.055	< 0.055	G
643	11104-28-2	PCB-1221	8082A	0.055	< 0.055	G
644	11141-16-5	PCB-1232	8082A	0.055	< 0.055	G
645	12672-29-6	PCB-1248	8082A	0.055	< 0.055	G
618	11096-82-5	PCB-1260	8082A	0.055	< 0.055	G
646	12674-11-2	PCB-1016	8082A	0.055	< 0.055	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.161	< 0.161	G
275	120-12-7	Anthracene	8270D	0.161	< 0.161	G
--	92-87-5	Benzidine	8270D	1.29	< 1.29	G
276	56-55-3	Benzo(a) anthracene	8270D	0.161	< 0.161	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5 DUP

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.161	< 0.161	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.161	< 0.161	G
277	50-32-8	Benzo(a)pyrene	8270D	0.161	< 0.161	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.161	< 0.161	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.161	< 0.161	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.161	< 0.161	G
--	91-58-7	2-Chloronaphthalene	8270D	0.161	< 0.161	G
282	218-01-9	Chrysene	8270D	0.161	< 0.161	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.161	< 0.161	G
206	84-74-2	Dibutyl phthalate	8270D	0.161	< 0.161	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.161	< 0.161	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.161	< 0.161	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.242	< 0.242	G
285	84-66-2	Diethyl phthalate	8270D	0.161	< 0.161	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.161	< 0.161	G
286	131-11-3	Dimethyl Phthalate	8270D	0.161	< 0.161	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.161	< 0.161	G
287	206-44-0	Fluoranthene	8270D	0.161	< 0.161	G
288	86-73-7	Fluorene	8270D	0.161	< 0.161	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.435	< 0.435	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.161	< 0.161	G
650	78-59-1	Isophorone	8270D	0.161	< 0.161	G
293	91-20-3	Naphthalene	8270D	0.161	< 0.161	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.161	< 0.161	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.161	< 0.161	G
575	621-64-7	N-Nitrosodi-n-propiyamine	8270D	0.161	< 0.161	G
296	129-00-0	Pyrene	8270D	0.161	< 0.161	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.161	< 0.161	G
Volatiles (Part B.4)						
171	107-02-8	Acrolein	8260B	0.0445	< 0.0445	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0089	< 0.0089	G
484	75-25-2	Bromoform	8260B	0.0018	< 0.0018	G
652	124-48-1	Chlorodibromomethane	8260B	0.0018	< 0.0018	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0018	< 0.0018	G
244	75-27-4	Dichlorobromomethane	8260B	0.0018	< 0.0018	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0018	< 0.0018	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0018	< 0.0018	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0036	< 0.0036	G
172	100-41-4	Ethylbenzene	8260B	0.0018	< 0.0018	G
--	74-83-9	Methyl Bromide	8260B	0.0018	< 0.0018	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0089	< 0.0089	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0018	< 0.0018	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Possum Pond ABC Ash - ABC 5 DUP

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270	51.28-5	2,4 Dinitrophenol	8270D	0.323	< 0.323	G
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Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.43	< 0.43	G
350		Tributyltin	Krone	0.0098	< 0.0098	G
257		TPH (Total petroleum Hydrocarbons)	9071B	340	561	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

Footnotes to Water Quality Monitoring Attachment B

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(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

EXHIBIT E
Analytical Laboratory Reports

gai consultants
transforming ideas into reality.

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

July 9, 2015

Mr. Ed Sciulli
GAI Consultants
385 E. Waterfront Dr.
Homestead, PA 15120

Certificate of Analysis

Revised Report - 7/9/2015 11:19:23 AM - See workorder comment section for explanation

Project Name:	**2015-VIRGINIA POWER-POSSUM**	Workorder:	**2075868**
Purchase Order:		Workorder ID:	**Dominion Possum Point**

Dear Mr. Sciulli:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, June 9, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Katie Tuite

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2075868 Dominion Possum Point

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2075868001	ABC 1 Grab	Solid	6/8/2015 11:00	6/9/2015 19:55	Collected by Client
2075868002	ABC 1 Comp	Solid	6/8/2015 11:10	6/9/2015 19:55	Collected by Client
2075868003	ABC 5 Grab	Solid	6/8/2015 13:50	6/9/2015 19:55	Collected by Client
2075868004	ABC 5 Comp	Solid	6/8/2015 14:00	6/9/2015 19:55	Collected by Client
2075868005	ABC 5 Grab Dup	Solid	6/8/2015 13:50	6/9/2015 19:55	Collected by Client
2075868006	ABC 5 Comp Dup	Solid	6/8/2015 14:10	6/9/2015 19:55	Collected by Client

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

PROJECT SUMMARY

Workorder: 2075868 Dominion Possum Point

Workorder Comments

See attached subcontracted tributylin results from ALS-Kelso. VLF 7/7/15

See attached subcontracted trivalent arsenic results from Brooks Rand. VLF 7/7/15

This report was modified on 7/7/15 to attach subcontracting and add PCB. VLF

Sample Comments

Lab ID: 2075868002 **Sample ID:** ABC 1 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2075868004 **Sample ID:** ABC 5 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2075868005 **Sample ID:** ABC 5 Grab Dup **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

Lab ID: 2075868006 **Sample ID:** ABC 5 Comp Dup **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

ALS Environmental

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868001** Date Collected: 6/8/2015 11:00 Matrix: Solid

Sample ID: **ABC 1 Grab** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/15/15 08:20	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/15/15 08:20	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.3		%	62 - 133	SW846 8260B			6/15/15 08:20	JPA	D
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			6/15/15 08:20	JPA	D
Dibromofluoromethane (S)	96.1		%	78 - 116	SW846 8260B			6/15/15 08:20	JPA	D
Toluene-d8 (S)	94.4		%	76 - 127	SW846 8260B			6/15/15 08:20	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	61.0	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Acrylonitrile	ND		ug/kg	12.2	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Bromodichloromethane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Bromoform	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Bromomethane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
2-Butanone	ND		ug/kg	12.2	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Chlorodibromomethane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.9	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Ethylbenzene	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Methylene Chloride	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Toluene	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Trichloroethene	ND		ug/kg	2.4	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	102		%	56 - 124	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
4-Bromofluorobenzene (S)	103		%	51 - 128	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
Dibromofluoromethane (S)	115		%	62 - 123	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868001** Date Collected: 6/8/2015 11:00 Matrix: Solid

Sample ID: **ABC 1 Grab** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	6/8/15	JPA	6/11/15 11:56	JPA	A
WET CHEMISTRY										
Moisture	41.7		%	0.1	S2540G-11			6/15/15 15:46	JP	A
Total Solids	58.3		%	0.1	S2540G-11			6/15/15 15:46	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Anthracene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Benzidine	ND		ug/kg	1400	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Benzo(a)anthracene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Benzo(a)pyrene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Butylbenzylphthalate	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2-Chloronaphthalene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2-Chlorophenol	ND		ug/kg	472	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Chrysene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Di-n-Butylphthalate	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	262	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2,4-Dichlorophenol	ND		ug/kg	350	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Diethylphthalate	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2,4-Dimethylphenol	ND		ug/kg	472	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Dimethylphthalate	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2,4-Dinitrophenol	ND		ug/kg	350	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Fluoranthene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Fluorene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	472	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Isophorone	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Kepone	ND		ug/kg	1750	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	472	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Naphthalene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Phenol	ND		ug/kg	472	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	175	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	58.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	60.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	58.1		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	59.4		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	49.3		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	49.1		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Nitrobenzene-d5 (S)	54.3		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	56		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	50.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	51.9		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Terphenyl-d14 (S)	58		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	62.3		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 13:58	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1016	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1221	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1232	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1242	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1248	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Aroclor-1260	ND		mg/kg	0.058	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	95.2		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
Tetrachloro-m-xylene (S)	54.3		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 14:25	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
alpha-BHC	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
beta-BHC	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
delta-BHC	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
gamma-BHC	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
alpha-Chlordane	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
gamma-Chlordane	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
4,4'-DDD	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
4,4'-DDE	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
4,4'-DDT	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Dieldrin	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endosulfan I	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endosulfan II	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endosulfan Sulfate	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endrin	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endrin Aldehyde	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Endrin Ketone	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Heptachlor	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Heptachlor Epoxide	ND		ug/kg	15.0	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Methoxychlor	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Mirex	ND		ug/kg	29.2	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Toxaphene	ND		ug/kg	115	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	46.1		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
Tetrachloro-m-xylene (S)	35.7		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 18:07	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Alachlor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Atrazine	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Azinphos Methyl	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Bolstar	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Bromacil	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Butachlor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Chlorpyrifos	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Coumaphos	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Cyanizine	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Demeton	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Diazinon	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Dichlorovos	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Dimethoate	85.6		ug/kg	79.7	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
EPN	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Ethoprop	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Fensulfothion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Fenthion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Malathion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Methyl Parathion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Metolachlor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Metribuzin	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Mevinphos	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Molinate	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Parathion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Phorate	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Prometon	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Propachlor	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Ronnel	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Simazine	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A
Sulfotep	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Tetrachlorinphos	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Tokuthion	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Trichloronate	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Trifluralin	ND		ug/kg	62.0	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	37.7		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 17:07	EGO	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	61.4		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	51.4		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 02:01	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.48	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	ND		mg/kg	377	SW846 9071B			6/17/15 13:00	AT	A
Hexavalent Chromium	ND		mg/kg	3.6	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	46.4		%	0.1	S2540G-11			6/11/15 09:47	JP	A
Silica Gel Treated HEM	ND		mg/kg	377	SW846 9071B			6/17/15 13:00	AT	A
Total Solids	53.6		%	0.1	S2540G-11			6/11/15 09:47	JP	A
METALS										
Trivalent Chromium	21.3		mg/kg	3.7	Calculation			6/18/15 15:01	CF	A
Antimony, Total	4.5		mg/kg	1.7	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
Arsenic, Total	93.2	6	mg/kg	2.5	SW846 6020A	6/11/15	JPS	6/12/15 12:30	MO	A1
Chromium, Total	21.3		mg/kg	1.7	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
Copper, Total	59.0	1	mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
Nickel, Total	30.1	2	mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
Thallium, Total	1.4		mg/kg	0.83	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
Zinc, Total	26.1		mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 02:58	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Barium, Total	4.0		mg/L	2.8	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/15/15	MNP	6/15/15 13:43	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/15/15	JPS	6/16/15 11:44	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868002** Date Collected: 6/8/2015 11:10 Matrix: Solid

Sample ID: **ABC 1 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Pyridine	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	73		%	40 - 125	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
2-Fluorobiphenyl (S)	58.3		%	50 - 110	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
2-Fluorophenol (S)	41.6		%	20 - 75	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Nitrobenzene-d5 (S)	64		%	40 - 110	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Phenol-d5 (S)	26.1		%	13 - 49	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
Terphenyl-d14 (S)	81.8		%	50 - 122	SW846 8270D	6/16/15	LEH	6/16/15 17:43	CGS	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Endrin	ND	3	ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Methoxychlor	ND	4	ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Toxaphene	ND	5	ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	59.7		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
Tetrachloro-m-xylene (S)	75.2		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 12:52	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 14:01	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 14:01	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	104		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 14:01	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID:	**2075868002**	Date Collected:	6/8/2015 11:10	Matrix:	Solid
Sample ID:	**ABC 1 Comp**	Date Received:	6/9/2015 19:55		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868003** Date Collected: 6/8/2015 13:50 Matrix: Solid

Sample ID: **ABC 5 Grab** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/15/15 08:55	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/15/15 08:55	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.2		%	62 - 133	SW846 8260B			6/15/15 08:55	JPA	D
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			6/15/15 08:55	JPA	D
Dibromofluoromethane (S)	94.6		%	78 - 116	SW846 8260B			6/15/15 08:55	JPA	D
Toluene-d8 (S)	93.7		%	76 - 127	SW846 8260B			6/15/15 08:55	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	47.3	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Acrylonitrile	ND		ug/kg	9.5	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Bromoform	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Bromomethane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
2-Butanone	ND		ug/kg	9.5	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	3.8	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Methylene Chloride	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Toluene	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
4-Bromofluorobenzene (S)	128		%	51 - 128	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
Dibromofluoromethane (S)	119		%	62 - 123	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868003** Date Collected: 6/8/2015 13:50 Matrix: Solid

Sample ID: **ABC 5 Grab** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	121		%	59 - 131	SW846 8260B	6/8/15	JPA	6/11/15 12:19	JPA	A
WET CHEMISTRY										
Moisture	40.4		%	0.1	S2540G-11			6/11/15 09:47	JP	A
Total Solids	59.6		%	0.1	S2540G-11			6/11/15 09:47	JP	A

Shannon Butler

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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Benzidine	ND		ug/kg	1330	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Benzo(a)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Benzo(a)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Butylbenzylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2-Chloronaphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2-Chlorophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Chrysene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Di-n-Butylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	249	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2,4-Dichlorophenol	ND		ug/kg	332	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Diethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2,4-Dimethylphenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Dimethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2,4-Dinitrophenol	ND		ug/kg	332	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Fluorene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Isophorone	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Kepone	ND		ug/kg	1660	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Naphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Phenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.7		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.6		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2-Fluorobiphenyl (S)	76.1		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	74.4		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
2-Fluorophenol (S)	70		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	69.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Nitrobenzene-d5 (S)	73.7		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	75.9		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Phenol-d5 (S)	70.9		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	68.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	69.8		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	74.9		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 14:23	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1016	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1221	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1232	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1242	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1248	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1254	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Aroclor-1260	ND		mg/kg	0.054	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Decachlorobiphenyls (S)	86.9		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
Tetrachloro-m-xylene (S)	65.3		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 14:36	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
alpha-BHC	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
beta-BHC	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
delta-BHC	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
gamma-BHC	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
alpha-Chlordane	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
gamma-Chlordane	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
4,4'-DDD	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
4,4'-DDE	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
4,4'-DDT	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Dieldrin	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endosulfan I	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endosulfan II	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endosulfan Sulfate	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endrin	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endrin Aldehyde	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Endrin Ketone	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Heptachlor	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.0	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Methoxychlor	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Mirex	ND		ug/kg	27.2	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Toxaphene	ND		ug/kg	107	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	55		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
Tetrachloro-m-xylene (S)	45.1		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 18:23	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND	15	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Alachlor	ND	6	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Atrazine	ND	4	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Azinphos Methyl	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Bolstar	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Bromacil	ND	7	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Butachlor	ND	11	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Chlorpyrifos	ND	1	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Coumaphos	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Cyanizine	ND	9	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Demeton	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Diazinon	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Dichlorovos	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Dimethoate	ND		ug/kg	72.9	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
EPN	ND		ug/kg	97.2	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Ethoprop	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Fensulfothion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Fenthion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Malathion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Methyl Parathion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Metolachlor	ND	8	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Metribuzin	ND	5	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Mevinphos	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Molinate	ND	12	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Parathion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Pendimethalin(Prowl)	ND	10	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Phorate	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Prometon	ND	14	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Propachlor	ND	2	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Ronnel	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Simazine	ND	3	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Sulfotep	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Tetrachlorinphos	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Tokuthion	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Trichloronate	ND		ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Trifluralin	ND	13	ug/kg	56.7	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	55		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 17:38	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	55.5		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	70.3		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 02:38	KJH	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.43	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	371		mg/kg	337	SW846 9071B			6/17/15 13:00	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	40.6		%	0.1	S2540G-11			6/11/15 09:47	JP	A
Silica Gel Treated HEM	ND		mg/kg	337	SW846 9071B			6/17/15 13:00	AT	A
Total Solids	59.4		%	0.1	S2540G-11			6/11/15 09:47	JP	A
METALS										
Trivalent Chromium	17.2		mg/kg	3.4	Calculation			6/18/15 15:01	CF	A
Antimony, Total	3.2		mg/kg	1.4	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
Arsenic, Total	70.0		mg/kg	2.1	SW846 6020A	6/11/15	JPS	6/12/15 12:45	MO	A1
Chromium, Total	17.2		mg/kg	1.4	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
Copper, Total	49.9		mg/kg	3.6	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
Nickel, Total	18.7		mg/kg	3.6	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
Thallium, Total	1.1		mg/kg	0.71	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
Zinc, Total	31.7		mg/kg	3.6	SW846 6020A	6/11/15	JPS	6/12/15 03:13	ZMC	A1
TCLP METALS										
Arsenic, Total	0.15		mg/L	0.14	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Barium, Total	5.3		mg/L	2.8	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/15/15	MNP	6/15/15 13:44	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/15/15	JPS	6/16/15 11:48	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Pyridine	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868004** Date Collected: 6/8/2015 14:00 Matrix: Solid

Sample ID: **ABC 5 Comp** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	93.6		%	40 - 125	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
2-Fluorobiphenyl (S)	75.6		%	50 - 110	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
2-Fluorophenol (S)	51.2		%	20 - 75	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Nitrobenzene-d5 (S)	84.9		%	40 - 110	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Phenol-d5 (S)	32.7		%	13 - 49	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
Terphenyl-d14 (S)	87.1		%	50 - 122	SW846 8270D	6/16/15	LEH	6/16/15 18:59	CGS	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	65		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
Tetrachloro-m-xylene (S)	76.7		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 13:39	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 14:38	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 14:38	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 14:38	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868005** Date Collected: 6/8/2015 13:50 Matrix: Solid

Sample ID: **ABC 5 Grab Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/15/15 09:29	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/15/15 09:29	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.2		%	62 - 133	SW846 8260B			6/15/15 09:29	JPA	D
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			6/15/15 09:29	JPA	D
Dibromofluoromethane (S)	96.5		%	78 - 116	SW846 8260B			6/15/15 09:29	JPA	D
Toluene-d8 (S)	91.5		%	76 - 127	SW846 8260B			6/15/15 09:29	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	44.5	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Acrylonitrile	ND		ug/kg	8.9	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Bromodichloromethane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Bromoform	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Bromomethane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
2-Butanone	ND		ug/kg	8.9	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Chlorodibromomethane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
trans-1,2-Dichloroethene	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
1,2-Dichloropropane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
1,3-Dichloropropene, Total	ND		ug/kg	3.6	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Ethylbenzene	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Methylene Chloride	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Toluene	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
1,1,2-Trichloroethane	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Trichloroethene	ND		ug/kg	1.8	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	192	7	%	56 - 124	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
4-Bromofluorobenzene (S)	166	9	%	51 - 128	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
Dibromofluoromethane (S)	209	6	%	62 - 123	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868005** Date Collected: 6/8/2015 13:50 Matrix: Solid

Sample ID: **ABC 5 Grab Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	178	8	%	59 - 131	SW846 8260B	6/8/15	TMP	6/12/15 17:39	TMP	B
WET CHEMISTRY										
Moisture	45.8		%	0.1	S2540G-11			6/11/15 09:47	JP	A
Total Solids	54.2		%	0.1	S2540G-11			6/11/15 09:47	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Anthracene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Benzidine	ND		ug/kg	1290	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Benzo(a)anthracene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Benzo(a)pyrene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Butylbenzylphthalate	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2-Chloronaphthalene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2-Chlorophenol	ND		ug/kg	435	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Chrysene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Di-n-Butylphthalate	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	242	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2,4-Dichlorophenol	ND		ug/kg	323	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Diethylphthalate	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2,4-Dimethylphenol	ND		ug/kg	435	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Dimethylphthalate	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2,4-Dinitrophenol	ND		ug/kg	323	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Fluoranthene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Fluorene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	435	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Isophorone	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Kepone	ND		ug/kg	1610	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	435	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Naphthalene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Phenol	ND		ug/kg	435	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	161	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	72.4		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	75		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	63.2		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	64.6		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	57.8		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	57.5		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	63.5		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	61.7		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Phenol-d5 (S)	57.7		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	59.5		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Terphenyl-d14 (S)	64.1		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	68.7		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 14:47	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1016	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1221	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1232	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1242	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1248	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Aroclor-1260	ND		mg/kg	0.055	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	115		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
Tetrachloro-m-xylene (S)	74.8		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 14:48	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
alpha-BHC	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
beta-BHC	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
delta-BHC	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
gamma-BHC	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
alpha-Chlordane	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
gamma-Chlordane	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
4,4'-DDD	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
4,4'-DDE	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
4,4'-DDT	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Dieldrin	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endosulfan I	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endosulfan II	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endosulfan Sulfate	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endrin	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endrin Aldehyde	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Endrin Ketone	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Heptachlor	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.1	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Methoxychlor	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Mirex	ND		ug/kg	27.3	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Toxaphene	ND		ug/kg	108	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	60.8		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
Tetrachloro-m-xylene (S)	48.6		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 18:39	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Alachlor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Atrazine	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Azinphos Methyl	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Bolstar	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Bromacil	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Butachlor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Chlorpyrifos	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Coumaphos	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Cyanizine	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Demeton	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Diazinon	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Dichlorovos	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Dimethoate	ND		ug/kg	74.0	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
EPN	ND		ug/kg	98.6	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Ethoprop	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Fensulfothion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Fenthion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Malathion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Methyl Parathion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Metolachlor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Metribuzin	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Mevinphos	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Molinate	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Parathion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Phorate	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Prometon	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Propachlor	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Ronnel	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Simazine	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A
Sulfotep	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Tetrachlorinphos	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Tokuthion	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Trichloronate	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Trifluralin	ND		ug/kg	57.5	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	56.7		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 18:41	EGO	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	70.9		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	82.4		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:15	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.43	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	561		mg/kg	340	SW846 9071B			6/17/15 13:00	AT	A
Hexavalent Chromium	ND		mg/kg	3.3	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	41.1		%	0.1	S2540G-11			6/11/15 09:47	JP	A
Silica Gel Treated HEM	ND		mg/kg	340	SW846 9071B			6/17/15 13:00	AT	A
Total Solids	58.9		%	0.1	S2540G-11			6/11/15 09:47	JP	A
METALS										
Trivalent Chromium	16.9		mg/kg	3.4	Calculation			6/18/15 15:01	CF	A
Antimony, Total	3.1		mg/kg	1.7	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
Arsenic, Total	58.6		mg/kg	2.5	SW846 6020A	6/11/15	JPS	6/12/15 12:49	MO	A1
Chromium, Total	16.9		mg/kg	1.7	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
Copper, Total	47.3		mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
Nickel, Total	18.1		mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
Thallium, Total	1.1		mg/kg	0.85	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
Zinc, Total	32.8		mg/kg	4.2	SW846 6020A	6/11/15	JPS	6/12/15 03:28	ZMC	A1
TCLP METALS										
Arsenic, Total	0.25		mg/L	0.14	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Barium, Total	6.9		mg/L	2.8	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/15/15	MNP	6/15/15 13:45	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/15/15	JPS	6/16/15 11:52	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID: **2075868006** Date Collected: 6/8/2015 14:10 Matrix: Solid

Sample ID: **ABC 5 Comp Dup** Date Received: 6/9/2015 19:55

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Pyridine	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	90.5		%	40 - 125	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
2-Fluorobiphenyl (S)	73.8		%	50 - 110	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
2-Fluorophenol (S)	51.7		%	20 - 75	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Nitrobenzene-d5 (S)	82.3		%	40 - 110	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Phenol-d5 (S)	32.7		%	13 - 49	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
Terphenyl-d14 (S)	82.9		%	50 - 122	SW846 8270D	6/16/15	LEH	6/16/15 19:25	CGS	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	64.2		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
Tetrachloro-m-xylene (S)	67.5		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 13:55	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 15:15	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 15:15	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	112		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 15:15	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

Lab ID:	**2075868006**	Date Collected:	6/8/2015 14:10	Matrix:	Solid
Sample ID:	**ABC 5 Comp Dup**	Date Received:	6/9/2015 19:55		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2075868002	1	ABC 1 Comp	SW846 6020A	Copper, Total

One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.

2075868002	2	ABC 1 Comp	SW846 6020A	Nickel, Total

One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure.

2075868002	3	ABC 1 Comp	SW846 8081B	Endrin

The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte Endrin. The RPD was reported as 31 and the upper control limit is 28.

2075868002	4	ABC 1 Comp	SW846 8081B	Methoxychlor

The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte Methoxychlor. The RPD was reported as 30.9 and the upper control limit is 21.

2075868002	5	ABC 1 Comp	SW846 8081B	Toxaphene

The QC sample type MSD for method SW846 8081B was outside the control limits for the analyte Toxaphene. The RPD was reported as 0 and the upper control limit is .

2075868002	6	ABC 1 Comp	SW846 6020A	Arsenic, Total

The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits.

2075868004	1	ABC 5 Comp	SW846 8141B	Chlorpyrifos

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Chlorpyrifos. The % Recovery was reported as 63.7 and the control limits were 70 to 130.

2075868004	2	ABC 5 Comp	SW846 8141B	Propachlor

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Propachlor. The % Recovery was reported as 57.1 and the control limits were 70 to 130.

2075868004	3	ABC 5 Comp	SW846 8141B	Simazine

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Simazine. The % Recovery was reported as 42.7 and the control limits were 70 to 130.

2075868004	4	ABC 5 Comp	SW846 8141B	Atrazine

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Atrazine. The % Recovery was reported as 50.4 and the control limits were 70 to 130.

2075868004	5	ABC 5 Comp	SW846 8141B	Metribuzin

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Metribuzin. The % Recovery was reported as 49.7 and the control limits were 70 to 130.

2075868004	6	ABC 5 Comp	SW846 8141B	Alachlor

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Alachlor. The % Recovery was reported as 58.7 and the control limits were 70 to 130.

2075868004	7	ABC 5 Comp	SW846 8141B	Bromacil

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Bromacil. The % Recovery was reported as 65.6 and the control limits were 70 to 130.

2075868004	8	ABC 5 Comp	SW846 8141B	Metolachlor

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Metolachlor. The % Recovery was reported as 60.8 and the control limits were 70 to 130.

2075868004	9	ABC 5 Comp	SW846 8141B	Cyanizine

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Cyanizine. The % Recovery was reported as 37.9 and the control limits were 70 to 130.

2075868004	10	ABC 5 Comp	SW846 8141B	Pendimethalin(Prowl)

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Pendimethalin(Prowl). The % Recovery was reported as 68.1 and the control limits were 70 to 130.

ANALYTICAL RESULTS

Workorder: 2075868 Dominion Possum Point

2075868004	11	ABC 5 Comp	SW846 8141B	Butachlor

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Butachlor. The % Recovery was reported as 64.5 and the control limits were 70 to 130.

2075868004	12	ABC 5 Comp	SW846 8141B	Molinate

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Molinate. The % Recovery was reported as 62.3 and the control limits were 70 to 130.

2075868004	13	ABC 5 Comp	SW846 8141B	Trifluralin

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Trifluralin. The % Recovery was reported as 69.2 and the control limits were 70 to 130.

2075868004	14	ABC 5 Comp	SW846 8141B	Prometon

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Prometon. The % Recovery was reported as 50.3 and the control limits were 70 to 130.

2075868004	15	ABC 5 Comp	SW846 8141B	Acetochlor

The QC sample type MS for method SW846 8141B was outside the control limits for the analyte Acetochlor. The % Recovery was reported as 59.5 and the control limits were 70 to 130.

2075868005	6	ABC 5 Grab Dup	SW846 8260B	Dibromofluoromethane

The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 209 and the control limits were 62 to 123. This result was reported at a dilution of 1.

2075868005	7	ABC 5 Grab Dup	SW846 8260B	1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 192 and the control limits were 56 to 124. This result was reported at a dilution of 1.

2075868005	8	ABC 5 Grab Dup	SW846 8260B	Toluene-d8

The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 178 and the control limits were 59 to 131. This result was reported at a dilution of 1.

2075868005	9	ABC 5 Grab Dup	SW846 8260B	4-Bromofluorobenzene

The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 166 and the control limits were 51 to 128. This result was reported at a dilution of 1.

ALS Environmental

34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER. INSTRUCTIONS ON THE BACK.

SB EJC

Page 1 of 2

Courier:

Tracking #:

* 2 0 7 5 8 6 8 *

Co. Name: GAI CONSULTANTS, INC

Contact (Report to): ED SCIULLI, PG Phone: 412-476-2000

Address: 385 E. WATERFRONT DR. HOMESTEAD, PA 15120

Bill to (if different than Report to): PO#:

Project Name/#: DOMINION POSSUM POINT ALS Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. Date Required:
Rush-Subject to ALS approval and surcharges. Approved By:

Email? ✓ Y E. SCIULLI@GAI CONSULTANTS.COM
Fax? Y No:

***Container Type			C	C	C	C	C	C	A								
***Container Size			32 oz	40 mL	40 mL	4 oz	4 oz	8 oz	4 oz								
** Preservative			NONE	Na4 OH	HCL OH	NONE	NONE	NONE	NONE								
ANALYSES/METHOD REQUESTED			MTBE (PART A) TPH (PART A)	EVA (PART B3/B5) MEOH (PA) VOC'S (PART B, 4)	VOC'S (PART B, 4)	TCLP WASTE (PART A) (EXCEPT VOCS) ETC 6/9/15 (VOCS)	ASS (SVB TO KELSO)	TALBUTYLTIN (SVB TO KELSO)	VOC'S (PART B, 4) (EXTRA CONTAINER)								
Sample Description/Location (as it will appear on the lab report)	CDC Comments	Sample Date	Military Time	*G or C	**Matrix	Enter Number of Containers Per Analysis											
1 ABC 1 GRAB		6/8/15	11:00	G	SO		2	1	1 ETC 6/9/15			1					
2 ABC 1 COMP			11:10	C		2				1	1						
3 ABC 5 GRAB			13:50	G			2	1	1 ETC 6/9/15			1					
4 ABC 5 COMP			14:00	C		2				1	1						
5 ABC 5 GRAB DUP.			13:55	G			2	1	1 ETC 6/9/15			1					
6 ABC 5 COMP DUP			14:10	C		2				1	1						
7																	
8																	

Receipt Information (completed by Sample Receiption)
Performed by: RWL
Cooler Temp: 1
Therm. ID: 291
No. of Coolers:
Notes:

	1	2	3	4	5	6	7	8
Correct containers?	N	N	N	N				
Correct sample volume?	Y	Y	Y	Y				
Correct preservation?								
Headspace/Volatiles?								
Circle appropriate Y or N.								
Custody seals Present?	Y		Y		Y			
(If present) Seals intact?								
Received on ice?		N		N		N		
COC/Labels complete/accurate?		N		N		N		
Container in good condition?		N		N		N		

SAMPLED BY (Please Print): EUGENE COONEY JR

Project Comments:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 GAI CONSULTANTS	6/9/15	7:00	2 GAI	6/9	958
3 GAI	6/9/15		4	6/9	1641
5	6/9	1955	6 SES	6/9	1955
7			8		
9			10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; (other)

SDWA Forms? yes / yes / yes / yes

State Samples Collected In? MD / NJ / NY / PA

EDDs Required? If yes, format type:

Other

DOD Criteria Required?

ALS FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:	1 of 1
ALSI Quote #:	

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [X] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin										
Container Type					C										
Container Size					8 oz										
Preservative					None										
2075868 002	6/8/15	1110	G	SO	1										
2075868 004	6/8/15	1400	G	SO	1										
2075868 006	6/8/15	1410	G	SO	1										

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Sample/COC Comments: Subcontract: ALS-Kelso

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:

LOGGED BY(signature): _____ Date _____ Time _____
REVIEWED BY(signature): _____ Date _____ Time _____

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/15/15	1545	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE ☐

Special Processing: USACE ☐ Navy ☐ ☐

State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ NC ☐ other

Reportable to PADEP? Yes ☐ PWSID #: _____

Sample Disposal: Lab ☐ Special ☐

EDDs: Format Type- _____

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:	1 of 1
ALSI Quote #:	

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic									
Container Type			C											
Container Size			4 oz											
Preservative			None											
2075868 002	6/8/15	1110	G	SO	1									
2075868 004	6/8/15	1400	G	SO	1									
2075868 006	6/8/15	1410	G	SO	1									

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier Tracking #: _____

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:
LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	6/15/15	1540	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE ☐
Special Processing: USACE ☐ Navy ☐ ☐
State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ NC ☐ other
Reportable to PADEP? Yes ☐ PWSID #
Sample Disposal: Lab ☐ Special ☐
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

July 05, 2015

Analytical Report for Service Request No: K1506481

Vicki Forney
ALS Environmental
34 Dogwood Lane
Middletown, PA 17057

RE: 2075868

Dear Vicki,

Enclosed are the results of the sample(s) submitted to our laboratory June 16, 2015
For your reference, these analyses have been assigned our service request number **K1506481.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

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General Chemistry
Butyltins (as cation)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

ALS Environmental

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577- 7222 Fax (360)636- 1068
www.alsglobal.com

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Environmental • Industrial Hygiene • Field Services
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 14506481 — 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] Y almdt.subcontract@ALSGlobal.com
Fax? [ ] Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin										
Container Type			G												
Container Size			8 oz												
Preservative			None												
2075868 002	6/8/15	1110	G	SO	1										
2075868 004	6/8/15	1400	G	SO	1										
2075868 006	6/8/15	1410	G	SO	1										

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Sample/COC Comments: Subcontract: ALS-Kelso

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other:

Project Comments:
LOGGED BY(signature): Date: Time:
REVIEWED BY(signature): Date: Time:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	6/8/15	1545	2 [signature] ALS	6/10/15	0915
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] Other
Reportable to PADEP? Yes [ ] PWSID #:
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type:

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY Rev 5/05

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PC HH

Cooler Receipt and Preservation Form

Client / Project: ALS Middletown Service Request K15 OU481

Received: 6/16/15 Opened: 6/16/15 By: CU Unloaded: 6/16/15 By: CU

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr Factor	Thermometer ID	Cooler COC ID (NA)	Tracking Number (NA)	Filed
-0.4	-0.4	2.1	2.1	0	353		7738 3605 4133	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. ~~Were appropriate bottles/containers and volumes received for the tests indicated?~~ NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was Cl2/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by

Sample ID	Bottle Count Bottle Types	Out of Temp	Head space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

ALS Environmental

General Chemistry

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Phone (360)577-7222 Fax (360)636-1068
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dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	Service Request:	K1506481
Project:	2075868	Date Collected:	06/8/15
Sample Matrix:	Soil	Date Received:	06/16/15
Analysis Method:	160.3 Modified	Units:	Percent
Prep Method:	None	Basis:	NA

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
2075868 002	K1506481-001	**64.4**	-	1	06/16/15 16:38	
2075868 004	K1506481-002	**58.0**	-	1	06/16/15 16:38	
2075868 006	K1506481-003	**60.9**	-	1	06/16/15 16:38	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project	2075868	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Analyzed:	06/16/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Batch QC	**Units:**	Percent
Lab Code:	K1505626-015	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1505626-015DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	92.8	92.6	92.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/18/2015 1:38:43 PM

Superset Reference:15-0000335837 rev 00

ALS Environmental

Butyltins (as cation)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506481
Project:	2075868	Date Collected:	06/08/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2075868 002	Units:	ug/Kg
Lab Code:	K1506481-001	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	63	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project:	2075868	**Date Collected:**	06/08/2015
Sample Matrix:	Soil	**Date Received:**	06/16/2015

Butyltins (as cation)

Sample Name:	2075868 004	**Units:**	ug/Kg
Lab Code:	K1506481-002	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.8	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	64	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project:	2075868	**Date Collected:**	06/08/2015
Sample Matrix:	Soil	**Date Received:**	06/16/2015

Butyltins (as cation)

Sample Name:	2075868 006	**Units:**	ug/Kg
Lab Code:	K1506481-003	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.7	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	76	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506481
Project:	2075868	Date Collected:	NA
Sample Matrix:	Sediment	Date Received:	NA

Butyltins (as cation)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1505433-5	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	0.98	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	56	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 2075868
Sample Matrix: Sediment

Service Request: K1506481

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
Batch QC	K1506354-001	75
2075868 002	K1506481-001	63
2075868 004	K1506481-002	64
2075868 006	K1506481-003	76
Batch QCDUP	KWG1505433-1	73
Method Blank	KWG1505433-5	56
Batch QCMS	KWG1505433-2	77
Batch QCDMS	KWG1505433-3	70
Lab Control Sample	KWG1505433-4	76

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 10-120

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project:	2075868	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

		Batch QCMS KWG1505433-2 Matrix Spike			Batch QCDMS KWG1505433-3 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Tri-n-butyltin Cation	ND	20.8	30.9	67	21.7	30.9	70	10-115	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project:	2075868	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Duplicate Sample Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

			Batch QCDUP KWG1505433-1 Duplicate Sample			
Analyte Name	**MRL**	**Sample Result**	**Result**	**Average**	**Relative Percent Difference**	**RPD Limit**
Tri-n-butyltin Cation	1.4	ND	ND	ND	-	40

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506481
Project:	2075868	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Lab Control Spike Summary
Butyltins (as cation)

Extraction Method:	METHOD	**Units:**	ug/Kg
Analysis Method:	Krone	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1505433

	Lab Control Sample KWG1505433-4 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Tri-n-butyltin Cation	16.8	22.2	76	10-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BROOKS RAND LABS
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June 30, 2015

ALS - Middletown
ATTN: Vicki Forney
34 Dogwood Lane
Middletown PA 17057
vicki.forney@alsglobal.com

RE: Project ALS-MD1501 Client Project: 2075868

Dear Vicki Forney,

This report contains results for the 3 samples received by Brooks Rand Labs (BRL) on June 16, 2015. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a concentration much less than the native sample and were not analyzed. A post-preparation spike (PS) was analyzed and recovered within acceptance criteria.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

BROOKS RAND LABS
MEANINGFUL METALS DATA

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCB	continuing calibration blank	N/C	not calculated
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
D	dissolved fraction	RPD	relative percent difference
DUP	duplicate	RSD	relative standard deviation
IBL	instrument blank	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

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Project ID: ALS-MD1501
PM: Lydia Greaves

Client PM: Vicki Forney

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2075868 002	1525013-01	Soil	Sample	06/08/2015	06/16/2015
2075868 004	1525013-02	Soil	Sample	06/08/2015	06/16/2015
2075868 006	1525013-03	Soil	Sample	06/08/2015	06/16/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	06/24/2015	06/28/2015	B150975	N/A
As(III)	Soil/Sediment	EPA 1632	06/24/2015	06/24/2015	B150974	1500505

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2075868 002										
1525013-01	%TS	Soil	NA	59.61		0.36	1.20	%	B150975	N/A
1525013-01	As(III)	Soil	dry	5.36		0.240	0.720	mg/kg	B150974	1500505
2075868 004										
1525013-02	%TS	Soil	NA	59.61		0.36	1.20	%	B150975	N/A
1525013-02	As(III)	Soil	dry	23.1		2.32	6.95	mg/kg	B150974	1500505
2075868 006										
1525013-03	%TS	Soil	NA	58.80		0.36	1.20	%	B150975	N/A
1525013-03	As(III)	Soil	dry	21.2		2.44	7.31	mg/kg	B150974	1500505

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Project ID: ALS-MD1501
PM: Lydia Greaves

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BRL Report 1525013
Client PM: Vicki Forney

Accuracy & Precision Summary

Batch: B150974
Lab Matrix: Soil/Sediment
Method: EPA 1632

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150974-BS1	**Laboratory Fortified Blank (1523014)**						
	As(III)		1.204	1.171	mg/kg	97% 50-150	
B150974-BS2	**Laboratory Fortified Blank (1523029)**						
	As(III)		1.204	1.128	mg/kg	94% 50-150	
B150974-SRM1	**Certified Reference Material (1505010, PACS-3)**						
	As(III)		4.752	5.887	mg/kg	124% 50-150	
B150974-DUP1	**Duplicate (1525011-01)**						
	As(III)	14.95		13.00	mg/kg		14% 35
B150974-PS1	**Post Spike (1525011-01)**						
	As(III)	14.95	24.62	39.43	mg/kg	99% 65-135	

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Project ID: ALS-MD1501
PM: Lydia Greaves

Client PM: Vicki Forney

Accuracy & Precision Summary

Batch: B150975
Lab Matrix: Soil/Sediment
Method: SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150975-DUP1	Duplicate (1525011-01)						
	%TS	65.61		65.78	%		0.3% 15

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Method Blanks & Reporting Limits

Batch: B150974
Matrix: Soil/Sediment
Method: EPA 1632
Analyte: As(III)

Sample	Result	Units
B150974-BLK1	0.051	mg/kg wet
B150974-BLK2	0.046	mg/kg wet
B150974-BLK3	0.047	mg/kg wet
B150974-BLK4	0.049	mg/kg wet

Average: 0.048 **Standard Deviation:** 0.002 **MDL:** 0.040
Limit: 0.080 **Limit:** 0.027 **MRL:** 0.120

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Project ID: ALS-MD1501
PM: Lydia Greaves

BRL Report 1525013
Client PM: Vicki Forney

Method Blanks & Reporting Limits

Batch: B150975
Matrix: Soil/Sediment
Method: SM 2540G
Analyte: %TS

Sample	Result	Units
B150975-BLK1	0.00	%
B150975-BLK2	0.00	%
Average:	0.00	
Limit:	1.20	

MDL: 0.36
MRL: 1.20

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Sample Containers

Lab ID: 1525013-01 **Report Matrix:** Soil **Collected:** 06/08/2015
Sample: 2075868 002 **Sample Type:** Sample **Received:** 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8 oz	not provided	none	none		cooler

Lab ID: 1525013-02 **Report Matrix:** Soil **Collected:** 06/08/2015
Sample: 2075868 004 **Sample Type:** Sample **Received:** 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8 oz	not provided	none	none		cooler

Lab ID: 1525013-03 **Report Matrix:** Soil **Collected:** 06/08/2015
Sample: 2075868 006 **Sample Type:** Sample **Received:** 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8 oz	not provided	none	none		cooler

Shipping Containers

cooler
Received: June 16, 2015 9:05
Tracking No: 773836255661 via FedEx
Coolant Type: Ice
Temperature: 0.1 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: BRL Report 1525013 — 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental
TAT: [x] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: Approved By:
Email? [x] Y almdt.subcontract@ALSGlobal.com
Fax? [ ] Y No:

Container Type: C
Container Size: 4 oz
Preservative: None

ANALYSES/METHOD REQUESTED: Trivalent Arsenic

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic
2075868.002	6/8/15	1110	G	SO	1
2075868.004	6/8/15	1400	G	SO	1
2075868.006	6/8/15	1410	G	SO	1

Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: ____ Therm. ID: ____
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals intact?			
Received on ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other:

Project Comments:
LOGGED BY (signature): DATE TIME
REVIEWED BY (signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	6/15/15	1540	2 [signature] / BRL	6/16/15	0905
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected in: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ] PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type:

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type[1]	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311			G	5.0
151	7440-39-3	Barium	1311			G	100.0
216	71-43-2	Benzene	1311			G	3.0
096	7440-43-9	Cadmium.	1311			G	1.0
236	56-23-5	Carbon Tetrachloride	1311			G	0.5
333	57-74-9	Chlordane	1311			G	0.03
280	108-90-7	Chlorobenzene	1311			G	100.0
223	67-66-3	Chloroform	1311			G	6.0
016	7440-47-3	Chromium	1311			G	5.0
510	95-48-7	o-Cresol *	1311			G	200.0
509	108-39-4	m-Cresol *	1311			G	200.0
511	106-44-5	p-Cresol *	1311			G	200.0
512		Cresols, Total	1311			G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311			G	7.5
260	107-06-2	1,2-Dichloroethane	1311			G	0.5
258	75-35-4	1,1-Dichloroethylene	1311			G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311			G	0.13
339	72-20-8	Endrin	1311			G	0.02
341	76-44-8	Heptachlor	1311			G	0.008
289	118-74-1	Hexachlorobenzene	1311			G	0.13
290	87-68-3	Hexachlorobutadiene	1311			G	0.5
291	67-72-1	Hexachloroethane	1311			G	5.0
034	7439-92-1	Lead	1311			G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311			G	0.4
042	7439-97-6	Mercury	1311			G	0.2
344	72-43-5	Methoxychlor	1311			G	10.0
	78-93-3	Methyl Ethyl Ketone	1311			G	200.0
294	98-95-3	Nitrobenzene	1311			G	2.0
210	87-86-5	Pentachlorophenol	1311			G	100.0
	110-86-1	Pyridine	1311			G	5.0
152	7782-49-2	Selenium	1311			G	1.0
037	7440-22-4	Silver	1311			G	5.0
220	127-18-4	Tetrachloroethylene	1311			G	0.7
349	8001-35-2	Toxaphene	1311			G	0.5
602	79-01-6	Trichloroethylene	1311			G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311			G	400
602	88-06-2	2,4,6-Trichlorophenol	1311			G	2.0
173	75-01-4	Vinyl Chloride	1311			G	0.2

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[2] (mg/kg)	Sample Type[3]
		Metals (Part B.1.)				
178	7429-90-5	Antimony	(3)	(4)		G
457		Arsenic III	(3)	(4)		G
441	16055-83-1	Chromium III	(3)	(4)		G
231	18540-29-9	Chromium VI	(3)	(4)		G
442	744-50-8	Copper	(3)	(4)		G
445	7440-02-0	Nickel	(3)	(4)		G
	7440-28-0	Thallium	(3)	(4)		G
448	7440-66-6	Zinc	(3)	(4)		G
		Pesticides/PCB'S (Part B.2.)				
332	309-00-2	Aldrin	(3)	(4)		G
334		Chlorpyrifos Dursban	(3)	(4)		G
--	72-54-8	DDD	(3)	(4)		G
--	72-55-9	DDE	(3)	(4)		G
335	50-29-3	DDT	(3)	(4)		G
336	8065-48-3	Demeton	(3)	(4)		G
337	60-57-1	Dieldrin	(3)	(4)		G
746	959-98-8	Alpha-Endosulfan	(3)	(4)		G
640	33213-65-9	Alpha-Endosulfan	(3)	(4)		G
617	1031-07-8	Endosulfan Sulfate	(3)	(4)		G
--	7421-93-4	Endrin Aldehyde	(3)	(4)		G
340	86-50-0	Guthion	(3)	(4)		G
--	1024-57-3	Heptachlor Epoxide	(3)	(4)		G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	(3)	(4)		G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	(3)	(4)		G
--	143-50-0	Kepone	(3)	(4)		G
343	121-75-5	Malathion	(3)	(4)		G
345	2385-85-5	Mirex	(3)	(4)		G
346	56-38-2	Parathion	(3)	(4)		G
--	1336-36-3	Total PCB	(3)	(4)		G
641	53469-21-9	PCB-1242	(3)	(4)		G
642	11097-69-1	PCB-1254	(3)	(4)		G
643	11104-28-2	PCB-1221	(3)	(4)		G
644	11141-16-5	PCB-1232	(3)	(4)		G
645	12672-29-6	PCB-1248	(3)	(4)		G
618	11096-82-5	PCB-1260	(3)	(4)		G
646	12674-11-2	PCB-1016	(3)	(4)		G
		Base Neutral Extractable (Part B.3.)				
273	208-96-8	Acenaphthene	(3)	(4)		G
275	120-12-7	Anthracene	(3)	(4)		G
--	92-87-5	Benzidine	(3)	(4)		G
276	56-55-3	Benzo(a) anthracene	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[2] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[3]
648	50-32-8	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	(3)	(4)		G
278	207-08-9	Benzo(k) fluoranthene	(3)	(4)		G
277	50-32-8	Benzo(a)pyrene	(3)	(4)		G
--	111-44-4	Bis 2-Chloroethyl Ether	(3)	(4)		G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	(3)	(4)		G
486	85-68-7	Butyl benzyl phthalate	(3)	(4)		G
--	91-58-7	2-Chloronaphthalene	(3)	(4)		G
282	218-01-9	Chrysene	(3)	(4)		G
654	53-70-3	Dibenz(a,h) anthracene	(3)	(4)		G
206	84-74-2	Dibutyl phthalate	(3)	(4)		G
259	95-50-1	1,2-Dichlorobenzene	(3)	(4)		G
264	541-73-1	1,3-Dichlorobenzene	(3)	(4)		G
527	91-94-1	3,3-Dichlorobenzidine	(3)	(4)		G
285	84-66-2	Diethyl phthalate	(3)	(4)		G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	(3)	(4)		G
286	131-11-3	Dimethyl Phthalate	(3)	(4)		G
535	122-66-7	1,2-Diphenylhydrazine	(3)	(4)		G
287	206-44-0	Fluoranthene	(3)	(4)		G
288	86-73-7	Fluorene	(3)	(4)		G
538	77-47-4	Hexachlorocyclopentadiene	(3)	(4)		G
651	193-39-5	Indeno(1,2,3-cd) pyrene	(3)	(4)		G
650	78-59-1	Isophorone	(3)	(4)		G
293	91-20-3	Naphthalene	(3)	(4)		G
573	62-75-9	N-Nitrosodimethylamine	(3)	(4)		G
574	86-30-6	N-Nitrosodiphenylamine	(3)	(4)		G
575	621-64-7	N-Nitrosodi-n-propyamine	(3)	(4)		G
296	129-00-0	Pyrene	(3)	(4)		G
263	129-82-1	1,2,4 Trichlorobenzene	(3)	(4)		G
		Volatiles (Part B.4.)				
171	107-02-8	Acrolein	(3)	(4)		G
204	107-13-1	Acrylonitrile (Vinyl cyanide)	(3)	(4)		G
484	75-25-2	Bromoform	(3)	(4)		G
652	124-48-1	Chlorodibromomethane	(3)	(4)		G
649	75-09-2	Dichloromethane (Methylene chloride)	(3)	(4)		G
244	75-27-4	Dichlorobromomethane	(3)	(4)		G
262	156-60-5	Trans 1,2-Dichloroethylene	(3)	(4)		G
261	78-87-5	1,2-Dichloropropane	(3)	(4)		G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	(3)	(4)		G
172	100-41-4	Ethylbenzene	(3)	(4)		G
--	74-83-9	Methyl Bromide	(3)	(4)		G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	(3)	(4)		G
596	79-34-5	1,1,2,2-Tetrachloroethane	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power -- Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
222	108-88-3	Toluene	[3]	[4]		G
373	79-00-5	1,1,2-Trichloroethane	[3]	[4]		G
155	79-01-6	Trichloroethylene	[3]	[4]		G
		Acids Extratables (Part B.5.)				
267	95-57-8	2-Chlorophenol	[3]	[4]		G
268	120-83-2	2,4 Dichlorophenol	[3]	[4]		G
269	105-67-9	2,4 Dimethylphenol	[3]	[4]		G
-	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	[3]	[4]		G
270	51-28-5	2,4-Dinitrophenol	[3]	[4]		G
175	108-95-2	Phenol	[3]	[4]		G
		Miscellaneous (Part B.6.)				
018		Cyanide, Total	[3]	[4]		G
350		Tributyltin	[3]	[4]		G
257		TPH (Total Petroleum Hydrocarbons)	[3]	[4]		G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent — Title

Signature of Principal Executive Officer or Authorized Agent — Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified.
Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

(3) Any approved method presented in 40 CFR Part 136.

(4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type[1]	Threshold Levels (mg/l)
Toxicity Characteristic Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311			G	5.0
151	7440-39-3	Barium	1311			G	100.0
216	71-43-2	Benzene	1311			G	3.0
096	7440-43-9	Cadmium	1311			G	1.0
236	56-23-5	Carbon Tetrachloride	1311			G	0.5
333	57-74-9	Chlordane	1311			G	0.03
280	108-90-7	Chlorobenzene	1311			G	100.0
223	67-66-3	Chloroform	1311			G	6.0
016	7440-47-3	Chromium	1311			G	5.0
510	95-48-7	o-Cresol *	1311			G	200.0
509	108-39-4	m-Cresol *	1311			G	200.0
511	106-44-5	p-Cresol *	1311			G	200.0
512		Cresols, Total	1311			G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311			G	7.5
260	107-06-2	1,2-Dichloroethane	1311			G	0.5
258	75-35-4	1,1-Dichloroethylene	1311			G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311			G	0.13
339	72-20-8	Endrin	1311			G	0.02
341	76-44-8	Heptachlor	1311			G	0.008
289	118-74-1	Hexachlorobenzene	1311			G	0.13
290	87-68-3	Hexachlorobutadiene	1311			G	0.5
291	67-72-1	Hexachloroethane	1311			G	5.0
034	7439-92-1	Lead	1311			G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311			G	0.4
042	7439-97-6	Mercury	1311			G	0.2
344	72-43-5	Methoxychlor	1311			G	10.0
	78-93-3	Methyl Ethyl Ketone	1311			G	200.0
294	98-95-3	Nitrobenzene	1311			G	2.0
210	87-86-5	Pentachlorophenol	1311			G	100.0
	110-86-1	Pyridine	1311			G	5.0
152	7782-49-2	Selenium	1311			G	1.0
037	7440-22-4	Silver	1311			G	5.0
220	127-18-4	Tetrachloroethylene	1311			G	0.7
349	8001-35-2	Toxaphene	1311			G	0.5
602	79-01-6	Trichloroethylene	1311			G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311			G	400
602	88-06-2	2,4,6-Trichlorophenol	1311			G	2.0
173	75-01-4	Vinyl Chloride	1311			G	0.2

* If o-, m- and p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[2] (mg/kg)	Reporting Results[4] (mg/kg)	Sample Type[1]
		Metals (Part B.1.)				
178	7429-90-5	Antimony	(3)	(4)		G
457		Arsenic III	(3)	(4)		G
441	16055-83-1	Chromium III	(3)	(4)		G
231	18540-29-9	Chromium VI	(3)	(4)		G
442	744-50-8	Copper	(3)	(4)		G
445	7440-02-0	Nickel	(3)	(4)		G
	7440-28-0	Thallium	(3)	(4)		G
448	7440-66-6	Zinc	(3)	(4)		G
		Pesticides/PCB'S (Part B.2.)				
332	309-00-2	Aldrin	(3)	(4)		G
334		Chlorpyrifos Dursban	(3)	(4)		G
--	72-54-8	DDD	(3)	(4)		G
--	72-55-9	DDE	(3)	(4)		G
335	50-29-3	DDT	(3)	(4)		G
336	8065-48-3	Demeton	(3)	(4)		G
337	60-57-1	Dieldrin	(3)	(4)		G
746	959-98-8	Alpha-Endosulfan	(3)	(4)		G
640	33213-65-9	Alpha-Endosulfan	(3)	(4)		G
617	1031-07-8	Endosulfan Sulfate	(3)	(4)		G
--	7421-93-4	Endrin Aldehyde	(3)	(4)		G
340	86-50-0	Guthion	(3)	(4)		G
--	1024-57-3	Heptachlor Epoxide	(3)	(4)		G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	(3)	(4)		G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	(3)	(4)		G
--	143-50-0	Kepone	(3)	(4)		G
343	121-75-5	Malathion	(3)	(4)		G
345	2385-85-5	Mirex	(3)	(4)		G
346	56-38-2	Parathion	(3)	(4)		G
--	1336-36-3	Total PCB	(3)	(4)		G
641	53469-21-9	PCB-1242	(3)	(4)		G
642	11097-69-1	PCB-1254	(3)	(4)		G
643	11104-28-2	PCB-1221	(3)	(4)		G
644	11141-16-5	PCB-1232	(3)	(4)		G
645	12672-29-6	PCB-1248	(3)	(4)		G
618	11096-82-5	PCB-1260	(3)	(4)		G
646	12674-11-2	PCB-1016	(3)	(4)		G
		Base Neutral Extractable (Part B.3.)				
273	208-96-8	Acenaphthene	(3)	(4)		G
275	120-12-7	Anthracene	(3)	(4)		G
--	92-87-5	Benzidine	(3)	(4)		G
276	56-55-3	Benzo(a) anthracene	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[2] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[3]
648	50-32-8	Benzo(b) fluoranthene (3,4-Bensofluoranthene)	(3)	(4)		G
278	207-08-9	Benzo(k) fluoranthene	(3)	(4)		G
277	50-32-8	Benzo(a)pyrene	(3)	(4)		G
--	111-44-4	Bis 2-Chloroethyl Ether	(3)	(4)		G
279	102-60-1	Bis 2-Chloroiso-Propyl Ether	(3)	(4)		G
486	85-68-7	Butyl benzyl phthalate	(3)	(4)		G
--	91-58-7	2-Chloronaphthalene	(3)	(4)		G
282	218-01-9	Chrysene	(3)	(4)		G
654	53-70-3	Dibenz(a,h) anthracene	(3)	(4)		G
206	84-74-2	Dibutyl phthalate	(3)	(4)		G
259	95-50-1	1,2-Dichlorobenzene	(3)	(4)		G
264	541-73-1	1,3-Dichlorobenzene	(3)	(4)		G
527	91-94-1	3,3-Dichlorobenzidine	(3)	(4)		G
285	84-66-2	Diethyl phthalate	(3)	(4)		G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	(3)	(4)		G
286	131-11-3	Dimethyl Phthalate	(3)	(4)		G
535	122-66-7	1,2-Diphenylhydrazine	(3)	(4)		G
287	206-44-0	Fluoranthene	(3)	(4)		G
288	86-73-7	Fluorene	(3)	(4)		G
538	77-47-4	Hexachlorocyclopentadiene	(3)	(4)		G
651	193-39-5	Indeno(1,2,3-cd) pyrene	(3)	(4)		G
650	78-59-1	Isophorone	(3)	(4)		G
293	91-20-3	Naphthalene	(3)	(4)		G
573	62-75-9	N-Nitrosodimethylamine	(3)	(4)		G
574	86-30-6	N-Nitrosodiphenylamine	(3)	(4)		G
575	621-64-7	N-Nitrosodi-n-proplyamine	(3)	(4)		G
296	129-00-0	Pyrene	(3)	(4)		G
263	129-82-1	1,2,4 Trichlorobenzene	(3)	(4)		G
		Volatiles (Part B.4.)				
171	107-02-8	Acrolein	(3)	(4)		G
204	107-13-1	Acrylonitrile (Vinyl cyanide)	(3)	(4)		G
484	75-25-2	Bromoform	(3)	(4)		G
652	124-48-1	Chlorodibromomethane	(3)	(4)		G
649	75-09-2	Dichloromethane (Methylene chloride)	(3)	(4)		G
244	75-27-4	Dichlorobromomethane	(3)	(4)		G
262	156-60-5	Trans 1,2-Dichloroethylene	(3)	(4)		G
261	78-87-5	1,2-Dichloropropane	(3)	(4)		G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	(3)	(4)		G
172	100-41-4	Ethylbenzene	(3)	(4)		G
--	74-83-9	Methyl Bromide	(3)	(4)		G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	(3)	(4)		G
596	79-34-5	1,1,2,2-Tetrachloroethane	(3)	(4)		G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power – Possum Point VPDES PERMIT NO. : VA0002071

DATE: PROJECT:

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level[1] (mg/kg)	Reporting Results[1] (mg/kg)	Sample Type[2]
222	108-88-3	Toluene	[3]	[4]		G
373	79-00-5	1,1,2-Trichloroethane	[3]	[4]		G
155	79-01-6	Trichloroethylene	[3]	[4]		G
		Acids Extratables (Part B.5.)				
267	95-57-8	2-Chlorophenol	[3]	[4]		G
268	120-83-2	2,4 Dichlorophenol	[3]	[4]		G
269	105-67-9	2,4 Dimethylphenol	[3]	[4]		G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	[3]	[4]		G
270	51-28-5	2,4-Dinitrophenol	[3]	[4]		G
175	108-95-2	Phenol	[3]	[4]		G
		Miscellaneous (Part B.6.)				
018		Cyanide, Total	[3]	[4]		G
350		Tributyltin	[3]	[4]		G
257		TPH (Total Petroleum Hydrocarbons)	[3]	[4]		G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent | Title

Signature of Principal Executive Officer or Authorized Agent | Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.
Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilograms (mg/kg) unless otherwise specified.
Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<[QL]" on the Attachment B form, where the actual test method QL shall be substituted for "[QL]".

(2) Sample Type:
G = Grab - An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported.

(3) Any approved method presented in 40 CFR Part 136.

(4) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

July 9, 2015

Mr. Ed Sciulli
GAI Consultants
385 E. Waterfront Dr.
Homestead, PA 15120

Certificate of Analysis

Revised Report - 7/9/2015 11:20:00 AM - See workorder comment section for explanation

Project Name:	**2015-VIRGINIA POWER-POSSUM**	Workorder:	**2076025**
Purchase Order:		Workorder ID:	**Dominion Possum Point**

Dear Mr. Sciulli:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 10, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Katie Tuite

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2076025001	ABC 2 Grab	Solid	6/9/2015 11:00	6/10/2015 19:50	Collected by Client
2076025002	ABC 2 Comp	Solid	6/9/2015 11:15	6/10/2015 19:50	Collected by Client
2076025003	ABC 3 Grab	Solid	6/9/2015 09:00	6/10/2015 19:50	Collected by Client
2076025004	ABC 3 Comp	Solid	6/9/2015 09:15	6/10/2015 19:50	Collected by Client
2076025005	ABC 4 Grab	Solid	6/9/2015 12:45	6/10/2015 19:50	Collected by Client
2076025006	ABC 4 Comp	Solid	6/9/2015 13:00	6/10/2015 19:50	Collected by Client
2076025007	Low Volume C Grab	Solid	6/10/2015 10:00	6/10/2015 19:50	Collected by Client
2076025008	Low Volume C Comp	Solid	6/10/2015 10:05	6/10/2015 19:50	Collected by Client
2076025009	Low Volume D Grab	Solid	6/10/2015 10:10	6/10/2015 19:50	Collected by Client
2076025010	Low Volume D Comp	Solid	6/10/2015 10:15	6/10/2015 19:50	Collected by Client

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SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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PROJECT SUMMARY

Workorder: 2076025 Dominion Possum Point

Workorder Comments

See attached subcontracted tributylin results from ALS-Kelso. VLF 7/7/15

See attached subcontracted trivalent arsenic results from Brooks Rand. VLF 7/7/15

This report was modified on 7/7/15 to attach subcontracting and add PCB. VLF

Sample Comments

Lab ID: 2076025002 **Sample ID:** ABC 2 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025004 **Sample ID:** ABC 3 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025005 **Sample ID:** ABC 4 Grab **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

Lab ID: 2076025006 **Sample ID:** ABC 4 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025008 **Sample ID:** Low Volume C Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025010 **Sample ID:** Low Volume D Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025001** Date Collected: 6/9/2015 11:00 Matrix: Solid

Sample ID: **ABC 2 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:25	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.6		%	62 - 133	SW846 8260B			6/18/15 08:25	JPA	D
4-Bromofluorobenzene (S)	86.9		%	79 - 114	SW846 8260B			6/18/15 08:25	JPA	D
Dibromofluoromethane (S)	98.5		%	78 - 116	SW846 8260B			6/18/15 08:25	JPA	D
Toluene-d8 (S)	97.7		%	76 - 127	SW846 8260B			6/18/15 08:25	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	47.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Acrylonitrile	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromoform	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
2-Butanone	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	3.8	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Methylene Chloride	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Toluene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
4-Bromofluorobenzene (S)	116		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Dibromofluoromethane (S)	114		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025001** Date Collected: 6/9/2015 11:00 Matrix: Solid

Sample ID: **ABC 2 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	108		%	59 - 131	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
WET CHEMISTRY										
Moisture	41.9		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	58.1		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzidine	ND		ug/kg	1310	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(a)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(a)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Butylbenzylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Chloronaphthalene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Chlorophenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Chrysene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Di-n-Butylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	246	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dichlorophenol	ND		ug/kg	328	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Diethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dimethylphenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Dimethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dinitrophenol	ND		ug/kg	328	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Fluorene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Isophorone	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Kepone	ND		ug/kg	1640	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Naphthalene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Phenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	85.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.6		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.2		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	65.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	65.4		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	72		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	69.9		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	70.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	67.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Terphenyl-d14 (S)	77.7		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	72.5		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1016	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1221	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1232	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1242	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1248	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1254	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1260	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	187	1	%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Tetrachloro-m-xylene (S)	112		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
alpha-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
beta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
delta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
gamma-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
alpha-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
gamma-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDD	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDE	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDT	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Dieldrin	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan I	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan II	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin Aldehyde	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin Ketone	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Heptachlor	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Methoxychlor	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Mirex	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Toxaphene	ND		ug/kg	111	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	70.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Tetrachloro-m-xylene (S)	54.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Alachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Atrazine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Azinphos Methyl	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Bolstar	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Bromacil	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Butachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Chlorpyrifos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Coumaphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Cyanizine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Demeton	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Diazinon	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Dichlorovos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Dimethoate	ND		ug/kg	77.6	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
EPN	ND		ug/kg	104	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Ethoprop	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Fensulfothion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Fenthion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Malathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Methyl Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Metolachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Metribuzin	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Mevinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Molinate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Phorate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Prometon	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Propachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Ronnel	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Simazine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Sulfotep	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Tetrachlorinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Tokuthion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Trichloronate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Trifluralin	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	38.5		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	56		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	40		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.44	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	819		mg/kg	349	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	42.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	349	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	58.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.5	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.16		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Arsenic, Total	2.9		mg/kg	0.16	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Chromium, Total	0.61		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Copper, Total	1.7		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Nickel, Total	0.73		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Thallium, Total	ND		mg/kg	0.053	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Zinc, Total	1.1		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Barium, Total	3.8		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:55	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.1		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2-Fluorobiphenyl (S)	65.9		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2-Fluorophenol (S)	44.8		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Nitrobenzene-d5 (S)	69.2		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Phenol-d5 (S)	28		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Terphenyl-d14 (S)	78.5		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	56.4		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Tetrachloro-m-xylene (S)	81.1		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	105		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025002**	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	**ABC 2 Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid

Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:43	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B			6/18/15 08:43	JPA	D
4-Bromofluorobenzene (S)	85.5		%	79 - 114	SW846 8260B			6/18/15 08:43	JPA	D
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			6/18/15 08:43	JPA	D
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			6/18/15 08:43	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	52.9	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Acrylonitrile	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromodichloromethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromoform	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
2-Butanone	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Chlorodibromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.2	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Methylene Chloride	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Toluene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Trichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
4-Bromofluorobenzene (S)	122		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Dibromofluoromethane (S)	122		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid

Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	117		%	59 - 131	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
WET CHEMISTRY										
Moisture	40.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	59.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzidine	ND		ug/kg	1440	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(a)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(a)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Butylbenzylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Chloronaphthalene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Chlorophenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Chrysene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Di-n-Butylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	269	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dichlorophenol	ND		ug/kg	359	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Diethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dimethylphenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Dimethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dinitrophenol	ND		ug/kg	359	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Fluorene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Isophorone	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Kepone	ND		ug/kg	1790	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Naphthalene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Phenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.8		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.4		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	64.3		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	63.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Nitrobenzene-d5 (S)	70.1		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	72.2		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	63.4		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	65.8		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Terphenyl-d14 (S)	65.3		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	70		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1016	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1221	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1232	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1242	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1248	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1260	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	119		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Tetrachloro-m-xylene (S)	82.4		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
alpha-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
beta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
delta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
gamma-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
alpha-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
gamma-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDD	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDE	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDT	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Dieldrin	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan I	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan II	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan Sulfate	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin Aldehyde	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin Ketone	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Heptachlor	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Heptachlor Epoxide	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Methoxychlor	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Mirex	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Toxaphene	ND		ug/kg	117	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.4		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Tetrachloro-m-xylene (S)	43.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Alachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Atrazine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Azinphos Methyl	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Bolstar	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Bromacil	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Butachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Chlorpyrifos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Coumaphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Cyanizine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Demeton	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Diazinon	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Dichlorovos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Dimethoate	ND		ug/kg	80.2	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
EPN	ND		ug/kg	107	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Ethoprop	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Fensulfothion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Fenthion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Malathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Methyl Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Metolachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Metribuzin	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Mevinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Molinate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Phorate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Prometon	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Propachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Ronnel	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Simazine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Sulfotep	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Tetrachlorinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Tokuthion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Trichloronate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Trifluralin	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	38.3		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	65.5		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	55.7		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.46	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	805		mg/kg	366	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.5	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	45.4		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	366	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	54.6		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.7	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.13		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Arsenic, Total	3.1		mg/kg	0.17	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Chromium, Total	0.80		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Copper, Total	2.0		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Nickel, Total	0.70		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Thallium, Total	ND		mg/kg	0.057	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Zinc, Total	1.6		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Barium, Total	3.9		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:56	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.6		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2-Fluorobiphenyl (S)	65.4		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2-Fluorophenol (S)	47.9		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Nitrobenzene-d5 (S)	69.7		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Phenol-d5 (S)	30.6		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Terphenyl-d14 (S)	78.1		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.2		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Tetrachloro-m-xylene (S)	76.8		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	111		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025004**	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	**ABC 3 Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid

Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 07:34	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.7		%	62 - 133	SW846 8260B			6/18/15 07:34	JPA	D
4-Bromofluorobenzene (S)	84.9		%	79 - 114	SW846 8260B			6/18/15 07:34	JPA	D
Dibromofluoromethane (S)	93.2		%	78 - 116	SW846 8260B			6/18/15 07:34	JPA	D
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B			6/18/15 07:34	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	41.0	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Acrylonitrile	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromodichloromethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromoform	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
2-Butanone	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Chlorodibromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
trans-1,2-Dichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,2-Dichloropropane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,3-Dichloropropene, Total	ND		ug/kg	3.3	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Ethylbenzene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Methylene Chloride	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Toluene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2-Trichloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Trichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	182	7	%	56 - 124	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
4-Bromofluorobenzene (S)	138	9	%	51 - 128	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Dibromofluoromethane (S)	201	6	%	62 - 123	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid

Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Toluene-d8 (S)	202	8	%	59 - 131	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
WET CHEMISTRY										
Moisture	45.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	54.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzidine	ND		ug/kg	1330	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(a)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(a)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Butylbenzylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Chloronaphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Chlorophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Chrysene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Di-n-Butylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	250	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dichlorophenol	ND		ug/kg	333	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Diethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dimethylphenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Dimethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dinitrophenol	ND		ug/kg	333	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Fluorene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Isophorone	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Kepone	ND		ug/kg	1660	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Naphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Phenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.9		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	86		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Fluorobiphenyl (S)	76.2		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	74.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Fluorophenol (S)	64.5		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	63.8		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Nitrobenzene-d5 (S)	74		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	76.2		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Phenol-d5 (S)	64.7		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	62.9		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Terphenyl-d14 (S)	80.6		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	75.2		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1016	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1221	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1232	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1242	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1248	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1254	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1260	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	113		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	84.8		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
alpha-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
beta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
delta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
gamma-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
alpha-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
gamma-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDD	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDE	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDT	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Dieldrin	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan I	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan II	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin Aldehyde	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin Ketone	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Heptachlor	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Methoxychlor	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Mirex	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Toxaphene	ND		ug/kg	110	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	53.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Tetrachloro-m-xylene (S)	52		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Alachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Atrazine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Azinphos Methyl	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Bolstar	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Bromacil	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Butachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Chlorpyrifos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Coumaphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Cyanizine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Demeton	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Diazinon	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Dichlorovos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Dimethoate	ND		ug/kg	74.4	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
EPN	ND		ug/kg	99.2	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Ethoprop	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Fensulfothion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Fenthion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Malathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Methyl Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Metolachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Metribuzin	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Mevinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Molinate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Phorate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Prometon	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Propachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Ronnel	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Simazine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Sulfotep	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Tetrachlorinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Tokuthion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Trichloronate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Trifluralin	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	47.8		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	72.1		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	48		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.42	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	605		mg/kg	336	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	41.1		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	336	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	58.9		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.4	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.21		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Arsenic, Total	3.9		mg/kg	0.16	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Chromium, Total	0.69		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Copper, Total	2.1		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Nickel, Total	0.85		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Thallium, Total	0.059		mg/kg	0.053	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Zinc, Total	0.87		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Barium, Total	3.7		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:57	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Silver, Total	0.24		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	62.2		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2-Fluorobiphenyl (S)	55		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2-Fluorophenol (S)	36.6		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Nitrobenzene-d5 (S)	56.8		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Phenol-d5 (S)	23.3		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Terphenyl-d14 (S)	76.2		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	52.8		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Tetrachloro-m-xylene (S)	64.8		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	119		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid

Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 07:51	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B			6/18/15 07:51	JPA	D
4-Bromofluorobenzene (S)	84.8		%	79 - 114	SW846 8260B			6/18/15 07:51	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			6/18/15 07:51	JPA	D
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B			6/18/15 07:51	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	131	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Acrylonitrile	ND		ug/kg	26.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromodichloromethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromoform	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
2-Butanone	ND		ug/kg	26.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Chlorodibromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,2-Dichloropropane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	10.5	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Ethylbenzene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Methylene Chloride	ND	1	ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Toluene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Trichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	56 - 124	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
4-Bromofluorobenzene (S)	110		%	51 - 128	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid

Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
WET CHEMISTRY										
Moisture	70.9		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	29.1		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzidine	ND		ug/kg	2350	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(a)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(a)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Butylbenzylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Chloronaphthalene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Chlorophenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Chrysene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Di-n-Butylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	440	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dichlorophenol	ND		ug/kg	587	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Diethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dimethylphenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Dimethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dinitrophenol	ND		ug/kg	587	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Fluorene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Isophorone	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Kepone	ND		ug/kg	2940	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Naphthalene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Phenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.1		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Fluorobiphenyl (S)	69.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	71.1		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Fluorophenol (S)	71.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	71.7		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	73.5		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	75.7		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Phenol-d5 (S)	72		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	69.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	67.3		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	72.2		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1016	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1221	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1232	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1242	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1248	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1254	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1260	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	101		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Tetrachloro-m-xylene (S)	104		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
alpha-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
beta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
delta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
gamma-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
alpha-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
gamma-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDD	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDE	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDT	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Dieldrin	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan I	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan II	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan Sulfate	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin Aldehyde	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin Ketone	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Heptachlor	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Heptachlor Epoxide	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Methoxychlor	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Mirex	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Toxaphene	ND		ug/kg	195	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	63.4		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Tetrachloro-m-xylene (S)	44.4		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Alachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Atrazine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Azinphos Methyl	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Bolstar	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Bromacil	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Chlorpyrifos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Coumaphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Cyanizine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Demeton	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Diazinon	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Dichlorovos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Dimethoate	ND		ug/kg	137	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
EPN	ND		ug/kg	182	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Ethoprop	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Fensulfothion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Fenthion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Malathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Methyl Parathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Metolachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Metribuzin	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Mevinphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Molinate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Parathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Phorate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Prometon	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Propachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Ronnel	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Simazine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Sulfotep	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Tetrachlorinphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Tokuthion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Trichloronate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Trifluralin	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	71.2		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	79.6		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	111		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.73	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	5770		mg/kg	605	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	5.9	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	67.3		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	2990		mg/kg	605	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	32.7		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	35.6		mg/kg	6.1	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	2.6	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Arsenic, Total	25.0		mg/kg	3.9	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Chromium, Total	35.6		mg/kg	2.6	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Copper, Total	272		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Nickel, Total	71.6		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Thallium, Total	ND		mg/kg	1.3	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Zinc, Total	296		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:58	MNP	A3
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	70.7		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2-Fluorobiphenyl (S)	69.3		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2-Fluorophenol (S)	47.5		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Nitrobenzene-d5 (S)	73.9		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Phenol-d5 (S)	29.4		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Terphenyl-d14 (S)	82.9		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75.8		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Tetrachloro-m-xylene (S)	69.1		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025008**	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	**Low Volume C Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid

Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:08	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95		%	62 - 133	SW846 8260B			6/18/15 08:08	JPA	D
4-Bromofluorobenzene (S)	82.6		%	79 - 114	SW846 8260B			6/18/15 08:08	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			6/18/15 08:08	JPA	D
Toluene-d8 (S)	94		%	76 - 127	SW846 8260B			6/18/15 08:08	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	201	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Acrylonitrile	ND		ug/kg	40.2	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromodichloromethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromoform	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
2-Butanone	ND		ug/kg	40.2	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Chlorodibromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,2-Dichloropropane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	16.1	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Ethylbenzene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Methylene Chloride	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Toluene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Trichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	56 - 124	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
4-Bromofluorobenzene (S)	120		%	51 - 128	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid

Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Toluene-d8 (S)	97.2		%	59 - 131	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
WET CHEMISTRY										
Moisture	79.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	20.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzidine	ND		ug/kg	3850	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(a)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(a)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Butylbenzylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Chloronaphthalene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Chlorophenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Chrysene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Di-n-Butylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	721	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dichlorophenol	ND		ug/kg	962	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Diethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dimethylphenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Dimethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dinitrophenol	ND		ug/kg	962	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Fluoranthene	768		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Fluorene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Isophorone	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Kepone	ND		ug/kg	4810	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Naphthalene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Phenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	670		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	90.9		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	94.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Fluorobiphenyl (S)	78.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	76.7		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Fluorophenol (S)	74		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	73.5		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Nitrobenzene-d5 (S)	75.5		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	77.8		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	71.6		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	74.2		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	90.6		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	84.5		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1016	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1221	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1232	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1242	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1248	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1254	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1260	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	108		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Tetrachloro-m-xylene (S)	107		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
alpha-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
beta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
delta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
gamma-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
alpha-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
gamma-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDD	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDE	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDT	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Dieldrin	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan I	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan II	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan Sulfate	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin Aldehyde	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin Ketone	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Heptachlor	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Heptachlor Epoxide	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Methoxychlor	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Mirex	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Toxaphene	ND		ug/kg	321	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Tetrachloro-m-xylene (S)	46.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Alachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Atrazine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Azinphos Methyl	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Bolstar	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Bromacil	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Chlorpyrifos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Coumaphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Cyanizine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Demeton	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Diazinon	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Dichlorovos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Dimethoate	ND		ug/kg	221	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
EPN	ND		ug/kg	294	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Ethoprop	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Fensulfothion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Fenthion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Malathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Methyl Parathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Metolachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Metribuzin	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Mevinphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Molinate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Parathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Phorate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Prometon	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Propachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Ronnel	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Simazine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Sulfotep	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Tetrachlorinphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Tokuthion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Trichloronate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Trifluralin	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	77.1		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	83.6		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	60.4		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.3	SW846 9012B	6/13/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	6620		mg/kg	980	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	9.8	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	80.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	3380		mg/kg	980	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	20.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	80.5		mg/kg	10.0	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	4.7	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Arsenic, Total	19.2		mg/kg	7.1	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Chromium, Total	80.5		mg/kg	4.7	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Copper, Total	417		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Nickel, Total	69.7		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Thallium, Total	ND		mg/kg	2.4	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Zinc, Total	440		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:59	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachlorobutadiene	ND	2	ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachloroethane	ND	1	ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	66.7		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2-Fluorobiphenyl (S)	67.1		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2-Fluorophenol (S)	45.4		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Nitrobenzene-d5 (S)	69.8		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Phenol-d5 (S)	27.6		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Terphenyl-d14 (S)	79		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.1		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Tetrachloro-m-xylene (S)	73.9		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025010**	Date Collected:	6/10/2015 10:15	Matrix:	Solid
Sample ID:	**Low Volume D Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2076025002	1	ABC 2 Comp	SW846 8082A	Decachlorobiphenyls
The surrogate Decachlorobiphenyls for method SW846 8082A was outside of control limits. The % Recovery was reported as 187 and the control limits were 46 to 120. This result was reported at a dilution of 1.				
2076025005	6	ABC 4 Grab	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 201 and the control limits were 62 to 123. This result was reported at a dilution of 1.				
2076025005	7	ABC 4 Grab	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 182 and the control limits were 56 to 124. This result was reported at a dilution of 1.				
2076025005	8	ABC 4 Grab	SW846 8260B	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 202 and the control limits were 59 to 131. This result was reported at a dilution of 1.				
2076025005	9	ABC 4 Grab	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 138 and the control limits were 51 to 128. This result was reported at a dilution of 1.				
2076025007	1	Low Volume C Grab	SW846 8260B	Methylene Chloride
The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 139 and the control limits were 68 to 133.				
2076025010	1	Low Volume D Comp	SW846 8270D	Hexachloroethane
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachloroethane. The RPD was reported as 30.1 and the upper control limit is 30.				
2076025010	2	Low Volume D Comp	SW846 8270D	Hexachlorobutadiene
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachlorobutadiene. The RPD was reported as 31.9 and the upper control limit is 30.				

ALS Environmental

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

2076025

Co. Name: GAI CONSULTANTS, INC.

Contact (Report to): ED SCIULLI, PG

Phone: 412-476-2000

Address: 385 E. WATERFRONT DRIVE HOMESTEAD, PA 15120

Bill to (if different than Report to):

PO#:

DOMINION POSSUM POINT

Project Name/#: C150130.00

ALS Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. ✓ Rush-Subject to ALS approval and surcharges (WATER SAMPLES ONLY)

Date Required:

Approved By:

Email? ✓ -Y E.SCIULLI@GAICONSULTANTS.COM

Fax? -Y No.:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	EVA (PART 8.3) / 8.5	METALS (PART 8.1) PEST/PCB (PART 8.2) TCLP (EXCEPT VOA) (PART A)	MISC (PART 8.6)	VOC'S (PART B.4)	VOC'S (PART B.4)	TCLP WASTE VOA (PART A)	AS 3 (SUB TO KEL-O)	TRIBUTYLTIN (SUB TO KEL-O)	VOC'S (PART B.4) EXTRA CONTAINER			
	Container Type				C	C	C	C	C	C	C	C	C	C	A			
	Container Size				32 oz	40 mL	40 mL	40 mL	40 mL	4 oz	4 oz	8 oz	4 oz					
	** Preservative				NONE	Na OH	Na OH	NONE	NONE	NONE	NONE	NONE	NONE					
1	ABC 2 GRAB		6/9/15	11:00	G	SO			2	1	1			1				
2	ABC 2 COMP			11:15	C			2				1	1					
3	ABC 3 GRAB			9:00	G				2	1	1			1				
4	ABC 3 COMP			9:15	C			2				1	1					
5	ABC 4 GRAB			12:45	G				2	1	1			1				
6	ABC 4 COMP			13:00	C			2				1	1					
7	* SEE POSSUM POINT FULL LIST PARAMETERS FOR POND 0 #2									ON SEPARATE COC								
8	~~[illegible]~~ SW - SURFACE WATER * RUSH TAT		~~[illegible]~~	~~[illegible]~~	~~[illegible]~~					~~[illegible]~~								

ENTER NUMBER OF CONTAINERS PER ANALYSIS

(completed by Sample Receiver)

Performed by: LMG

Cooler Temp: 1

Therm. ID: 191

No. of Coolers:

Notes:

	1	2	3	4	5	6
Correct containers?	Y	Y	Y	Y	Y	Y
Correct sample volume?	Y	Y	Y	Y	Y	Y
Correct preservation?	Y	Y	Y	Y	Y	Y
Headspace/Volatilis?	Y	Y	Y	Y	Y	Y
Circle appropriate Y or N.						
Custody seals Present?	Y	Y	Y	Y	Y	Y
(If present) Seals Intact?	Y	Y	Y	Y	Y	Y
Received on ice?	Y	Y	Y	Y	Y	Y
COC/Labels complete/accurate?	Y	Y	Y	Y	Y	Y
Container in good condition?	Y	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): EUGENE COONEY JR

Project Comments: RWL 6/11 137

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 GAI CONSULTANTS	6/9/15	18:00	2 [signature]	6/10/15	1103
3 [signature]	6/10/15	1700	4 [signature]	6/10	1805
5 [signature]	6/10	1950	6 SPS	6/10	1950
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ other

EDDs Required? ☐ If yes, format type:

SDWA Forms? ☐ yes ☐ yes ☐ yes ☐ yes

State Samples Collected in? ☐ MD ☐ NJ ☐ NY ☐ PA ☐ Other

DOD Criteria Required?

ALS FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

Thursday, July 09, 2015 11:20:19 AM
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ALS Environmental

34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

SB

Page 2 of 2

Courier:

Tracking #:

025

Co. Name: GAI CONSULTANTS, INC.

Contact (Report to): ED SCIULLI, PG

Phone: 412-476-2000

Address: 385 E. WATERFRONT DR. HOMESTEAD, PA 15120

Bill to (if different than Report to):

PO#:

DOMINION POSSUM POINT

Project Name/#: C150132.00

ALS Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.

Date Required:

Approved By:

Email? ✓ -Y E.SCIULLI@GAICONSULTANTS.COM

Fax? -Y No.:

***Container Type	C	C	C	C	C	C	A								
***Container Size	32 oz	40 mL	40 mL	4 oz	4 oz	8 oz	4 oz								
*** Preservative	NONE	NaOH	MeOH	NONE	NONE	NONE	NONE								

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	METALS (8.1) BVA (8.3 & 8.5) AEST/PCB's (8.2) MISC (8.6) TCLP EXCEPT VOA (PART A)	VOC'S (PART 8.4)	VOC'S (PART 8.4)	TCLP WASTE VOA (PART A)	AS 3 (SUB TO KELSO)	TRIBUTYLIN (SUB TO KELSO)	VOC'S (8.4) EXTRA CONTAINER			
1 LOW VOLUME C GRAB		6/10/15	10:00	C	SO		2	1	1			1			
2 LOW VOLUME C COMP.		↓	10:05	C	↓	2				1	1				
3 LOW VOLUME D GRAB		↓	10:10	C	↓		2	1	1			1			
4 LOW VOLUME D COMP.		↓	10:15	C	↓	2				1	1				
5															
6															
7															
8															

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)

Performed by: [illegible]

Cooler Temp: 1

Therm. ID: 291

No. of Coolers:

Notes:

Sample Description/Location	Custody seals Present?	(If present) Seals intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
1 LOW VOLUME C GRAB	Y	Y	Y	Y	Y
2 LOW VOLUME C COMP.	Y	Y	Y	Y	Y
3 LOW VOLUME D GRAB	Y	Y	Y	Y	Y
4 LOW VOLUME D COMP.	Y	Y	Y	Y	Y

Correct containers? Y N — Correct sample volume? Y N — Correct preservation? Y N — Headspace/Volatiles? Y N — Circle appropriate Y or N.

SAMPLED BY (Please Print): EUGENE COONEY JR

Project Comments: Rmk 6/11 137

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] GAI CONSULTANTS	6/10/15	11:00	2 [signature] / ALS	6/10/15	1100
3 [signature]	6/10/15	1700	4 [signature]	6/10	1705
5 [signature] ALS	6/10	1950	6 SFS	6/10	1950
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ ____ (other)

EDDs Required? ☐ If yes, format type:

SDWA Forms? yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☐ Other

DOD Criteria Required?

ALS FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic
Container Type			C		
Container Size			4 oz		
Preservative			None		
2076025 002	6/9/15	1115	G	SO	1
2076025 004	6/9/15	0915	G	SO	1
2076025 006	6/9/15	1300	G	SO	1
2076025 008	6/9/15	1005	G	SO	1
2076025 010	6/9/15	1015	G	SO	1

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:
LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/15/15	1545	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin										
Container Type			C												
Container Size			8 oz												
Preservative			None												
2076025 002	6/9/15	1115	G	SO	1										
2076025 004	6/9/15	0915	G	SO	1										
2076025 006	6/9/15	1300	G	SO	1										
2076025 008	6/9/15	1005	G	SO	1										
2076025 010	6/9/15	1015	G	SO	1										

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

Sample/COC Comments
Subcontract: ALS-Kelso

ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other: _____

Project Comments:
LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/15/15	1245	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ] PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Rev 5/05

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ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

July 05, 2015

Analytical Report for Service Request No: K1506480

Vicki Forney
ALS Environmental
34 Dogwood Lane
Middletown, PA 17057

RE: 2076025

Dear Vicki,

Enclosed are the results of the sample(s) submitted to our laboratory June 16, 2015
For your reference, these analyses have been assigned our service request number **K1506480.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

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REPRODUCTIONS RIGHTS

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

ALS Environmental

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: K1506480 | 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: Approved By:
Email?: [X] Y: almdt.subcontract@ALSGlobal.com
Fax?: [ ] Y: No.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin										
Container Type			C												
Container Size			8 oz												
Preservative			None												
2076025 002	6/9/15	1115	G	SO	1										
2076025 004	6/9/15	0915	G	SO	1										
2076025 006	6/9/15	1300	G	SO	1										
2076025 008	6/9/15	1005	G	SO	1										
2076025 010	6/9/15	1015	G	SO	1										

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: Therm. ID:
No. of Coolers:

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments: Subcontract: ALS-Kelso

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other:

Project Comments:
LOGGED BY (signature): DATE TIME
REVIEWED BY (signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/17/15	1245	2 ALS	6/16/15	0915
3			4		
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE ☐
Special Processing: USACE ☐ Navy ☐ ☐
State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ NC ☐ other
Reportable to PADEP? Yes ☐
PWSID #
Sample Disposal: Lab ☐ Special ☐
EDDS: Format Type:

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY Rev 5/05

ALS

6178

PC HH

Cooler Receipt and Preservation Form

Client / Project: ALS Middletown Service Request K15 6480

Received: 6/16/15 Opened: 6/16/15 By: UK Unloaded: 6/16/15 By: UK

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corr. Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number	NA Filed
-0.4	-0.4	2.1	2.1	0	353		7738 3605 4133	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

ALS Environmental

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/9/15
Sample Matrix:	Soil	Date Received:	06/16/15
Analysis Method:	160.3 Modified	Units:	Percent
Prep Method:	None	Basis:	NA

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
2076025 002	K1506480-001	63.5	-	1	06/17/15 15:55	
2076025 004	K1506480-002	60.7	-	1	06/17/15 15:55	
2076025 006	K1506480-003	63.0	-	1	06/17/15 15:55	
2076025 008	K1506480-004	34.4	-	1	06/17/15 15:55	
2076025 010	K1506480-005	19.6	-	1	06/17/15 15:55	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project	2076025	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	NA

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1505572-050DUP	-	60.6	60.7	60.7	<1	20	06/17/15
Batch QC	K1506492-001DUP	-	88.9	89.3	89.1	<1	20	06/17/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/19/2015 4:11:56 PM

Superset Reference:15-0000336049 rev 00

ALS Environmental

Butyltins (as cation)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Collected:**	06/09/2015
Sample Matrix:	Soil	**Date Received:**	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 002	**Units:**	ug/Kg
Lab Code:	K1506480-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	67	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 004	Units:	ug/Kg
Lab Code:	K1506480-002	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.7	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	76	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Collected:**	06/09/2015
Sample Matrix:	Soil	**Date Received:**	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 006	**Units:**	ug/Kg
Lab Code:	K1506480-003	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	63	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Collected:**	06/09/2015
Sample Matrix:	Soil	**Date Received:**	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 008	**Units:**	ug/Kg
Lab Code:	K1506480-004	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	2.9	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	88	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 010	Units:	ug/Kg
Lab Code:	K1506480-005	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	5.2	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	80	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA

Butyltins (as cation)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1505433-5	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	0.98	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	56	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: 2076025
Sample Matrix: Sediment

Service Request: K1506480

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method: METHOD
Analysis Method: Krone

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1
Batch QC	K1506354-001	75
2076025 002	K1506480-001	67
2076025 004	K1506480-002	76
2076025 006	K1506480-003	63
2076025 008	K1506480-004	88
2076025 010	K1506480-005	80
Batch QCDUP	KWG1505433-1	73
Method Blank	KWG1505433-5	56
Batch QCMS	KWG1505433-2	77
Batch QCDMS	KWG1505433-3	70
Lab Control Sample	KWG1505433-4	76

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 10-120

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

		Batch QCMS KWG1505433-2 Matrix Spike			Batch QCDMS KWG1505433-3 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Tri-n-butyltin Cation	ND	20.8	30.9	67	21.7	30.9	70	10-115	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Duplicate Sample Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

Analyte Name	MRL	Sample Result	Batch QCDUP KWG1505433-1 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Tri-n-butyltin Cation	1.4	ND	ND	ND	-	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Lab Control Spike Summary
Butyltins (as cation)

Extraction Method:	METHOD	**Units:**	ug/Kg
Analysis Method:	Krone	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1505433

	Lab Control Sample KWG1505433-4 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Tri-n-butyltin Cation	16.8	22.2	76	10-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BROOKS RAND LABS
MEANINGFUL METALS DATA®

June 30, 2015

ALS - Middletown
ATTN: Vicki Forney
34 Dogwood Lane
Middletown PA 17057
vicki.forney@alsglobal.com

RE: Project ALS-MD1501 Client Project: 2076025

Dear Vicki Forney,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 16, 2015. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a concentration much less than the native sample and were not analyzed. A post-preparation spike (PS) was analyzed and recovered within acceptance criteria.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2076025 002	1525011-01	Soil	Sample	06/09/2015	06/16/2015
2076025 004	1525011-02	Soil	Sample	06/09/2015	06/16/2015
2076025 006	1525011-03	Soil	Sample	06/09/2015	06/16/2015
2076025 008	1525011-04	Soil	Sample	06/09/2015	06/16/2015
2076025 010	1525011-05	Soil	Sample	06/09/2015	06/16/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	06/24/2015	06/28/2015	B150975	N/A
As(III)	Soil/Sediment	EPA 1632	06/24/2015	06/24/2015	B150974	1500505

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2076025 002										
1525011-01	%TS	Soil	NA	65.61		0.36	1.20	%	B150975	N/A
1525011-01	As(III)	Soil	dry	15.0		1.96	5.89	mg/kg	B150974	1500505
2076025 004										
1525011-02	%TS	Soil	NA	65.34		0.36	1.20	%	B150975	N/A
1525011-02	As(III)	Soil	dry	2.33		0.498	1.49	mg/kg	B150974	1500505
2076025 006										
1525011-03	%TS	Soil	NA	65.93		0.36	1.20	%	B150975	N/A
1525011-03	As(III)	Soil	dry	3.01		0.230	0.691	mg/kg	B150974	1500505
2076025 008										
1525011-04	%TS	Soil	NA	43.73		0.36	1.20	%	B150975	N/A
1525011-04	As(III)	Soil	dry	1.78		0.346	1.04	mg/kg	B150974	1500505
2076025 010										
1525011-05	%TS	Soil	NA	28.38		0.36	1.20	%	B150975	N/A
1525011-05	As(III)	Soil	dry	0.877		0.125	0.376	mg/kg	B150974	1500505

BROOKS RAND LABS
MEANINGFUL METALS DATA

Accuracy & Precision Summary

Batch: B150974
Lab Matrix: Soil/Sediment
Method: EPA 1632

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150974-BS1	**Laboratory Fortified Blank (1523014)**						
	As(III)		1.204	1.171	mg/kg	97% 50-150	
B150974-BS2	**Laboratory Fortified Blank (1523029)**						
	As(III)		1.204	1.128	mg/kg	94% 50-150	
B150974-SRM1	**Certified Reference Material (1505010, PACS-3)**						
	As(III)		4.752	5.887	mg/kg	124% 50-150	
B150974-DUP1	**Duplicate (1525011-01)**						
	As(III)	14.95		13.00	mg/kg		14% 35
B150974-PS1	**Post Spike (1525011-01)**						
	As(III)	14.95	24.62	39.43	mg/kg	99% 65-135	

Accuracy & Precision Summary

Batch: B150975
Lab Matrix: Soil/Sediment
Method: SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150975-DUP1	Duplicate (1525011-01)						
	%TS	65.61		65.78	%		0.3% 15

Method Blanks & Reporting Limits

Batch: B150974
Matrix: Soil/Sediment
Method: EPA 1632
Analyte: As(III)

Sample	Result	Units
B150974-BLK1	0.051	mg/kg wet
B150974-BLK2	0.046	mg/kg wet
B150974-BLK3	0.047	mg/kg wet
B150974-BLK4	0.049	mg/kg wet

Average: 0.048 **Standard Deviation:** 0.002 **MDL:** 0.040
Limit: 0.080 **Limit:** 0.027 **MRL:** 0.120

Method Blanks & Reporting Limits

Batch: B150975
Matrix: Soil/Sediment
Method: SM 2540G
Analyte: %TS

Sample	Result	Units
B150975-BLK1	0.00	%
B150975-BLK2	0.00	%
Average:	0.00	
Limit:	1.20	

MDL: 0.36
MRL: 1.20

Sample Containers

Lab ID: 1525011-01
Sample: 2076025 002

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-02
Sample: 2076025 004

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-03
Sample: 2076025 006

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-04
Sample: 2076025 008

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-05
Sample: 2076025 010

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

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Project ID: ALS-MD1501
PM: Lydia Greaves

BROOKS RAND LABS
MEANINGFUL METALS DATA

BRL Report 1525011
Client PM: Vicki Forney

Shipping Containers

cooler
Received: June 16, 2015 9:05
Tracking No: 773836255661 via FedEx
Coolant Type: Ice
Temperature: 0.1 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Thursday, July 09, 2015 11:20:19 AM
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Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: BRL Report 1525011 — 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT: [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y: almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.:

Container Type	C
Container Size	4 oz
Preservative	None

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Sample or Field Results Below.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic
2076025 002	6/9/15	1115	G	SO	1
2076025 004	6/9/15	0915	G	SO	1
2076025 006	6/9/15	1300	G	SO	1
2076025 008	6/9/15	1005	G	SO	1
2076025 010	6/9/15	1015	G	SO	1

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier Tracking #: _____

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature]	6/15/15	1545	2 [signature] BRL	6/16/15	0915
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ] PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY

Rev 5/05

Pond E Sampling and Analysis Plan

The work is to consist of conducting in-situ dredge material sampling and analytical laboratory analysis at Pond E in ~~general~~ accordance with the requirements of Condition I.F.11 of ~~the Dominion~~Possum Point Power Station's VPDES Permit (Permit No. VA0002071).

Project Background

~~Pond E was originally designed in 1967 and has been used as a settling basin for ash and other Coal Combustion Byproduct (CCB) material.~~ Based on a review of the original ~~1967~~ design plans for Pond E and topographic mapping developed in March 2015 by GAI Consultants, Inc., it is estimated that Pond E contains approximately 870,000 cubic yards (CY) of ash. The depth of ash varies along the pond, but it is estimated that the maximum thickness of ash extends approximately 35 to 40 feet with an average thickness of approximately 15 feet. Pond E also has free water over a portion of the ash. The pool elevation of the water varies with precipitation and the water depth varies across the pond. At the time of development of the topographic mapping in March 2015, it was estimated that the volume of water ~~is~~was approximately 52.5 million gallons and extends to a depth of approximately 17 feet.

As part of the clean closure ~~construction~~ activities planned for Pond E, ash is proposed to be mechanically dredged from the pond and transported to Pond D. In accordance with ~~order to meet~~ the requirements of Condition I.F.11 of the VPDES Permit, the dredge material ~~must~~was ~~be~~ sampled and analyzed ~~to demonstrate compliance with specified requirements~~.

Scope of Work

The Pond E sampling and laboratory analysis were completed in ~~general~~ accordance with applicable state and federal guidelines, regulations, and requirements as applicable to the subsurface conditions encountered. The sampling and laboratory analysis evaluated the ash material for comparison to criteria established under Condition I.F.11 of the VPDES Permit.

In accordance with Condition I.F.11 of the VPDES Permit, for volumes greater than 300,000 CY, one representative sample is required for each 100,000 CY of dredge material. The sample should be a composite of the proposed dredge material to the depth of the intended dredge. Based on evaluation of the ash thickness and pond dimensions, the dredge volume from Pond E ~~h~~was ~~been~~ estimated to be approximately 870,000 CY. Using a volume estimate factor of 20% to account for additional volumes due to estimation error and over excavation of pond bottom material, the final estimated volume of dredge is 1,044,000 CY.

Based on an estimated 1,044,000 CY of dredge, and in accordance with the requirements of one sample per 100,000 CY of dredge material, the collection of a total of 11 representative samples plus one quality assurance/quality control (QA/QC) sample (12 total samples) were ~~planned~~collected.

Sample Location Determination

To facilitate collection of samples representative of the approximately 38 acre pond and estimated thickness of ash, a total of 11 soil borings were advanced across Pond E. Boring locations were selected using a systematic random sampling technique in order to generate a representative sampling of the pond material. Soil boring locations were generated using the Visual Sampling Plan (VSP) Software. VSP is a software tool developed by Pacific Northwest National Laboratory (PNNL) for the United States (US) Department of Energy (DOE). The software was designed for selecting the right number and/or location of environmental samples so that the results of the statistical tests performed on the data collected via the sampling plan would have the required confidence for decision making.

Using the simple random sampling option of VSP, random sampling locations were generated within a predefined study area. Using the general perimeter of Pond E as the study area and specifying a total of 11 sample locations, a sample location map was developed. Black diamond symbols presented on the attached Figure 1 (Exhibit A) represent the planned sample locations generated using the VSP software.

Due to physical constraints in accessing some of the sample locations, such as water inundation and very soft ash conditions, planned soil boring for some locations required adjustment. Three sample locations (E6, E7, and E8) were slightly adjusted to avoid very soft ash conditions. In addition, the planned locations of three other samples (E9, E10, and E11) were adjusted over a relatively larger distance as the original planned locations were found to be inaccessible. The final locations of adjusted samples are presented as blue squares on the attached Figure 1. Coordinates for each sample location are provided in the attached Table 1 (Exhibit B).

Sample Collection

Soil borings were advanced at the designated sample locations to facilitate collection of the required dredge material samples. Soil borings advanced within the ash areas of pond were advanced using a track mounted drilling rig. Even within the drier portions of the pond area, matting was required to provide stability and assist in the movement of the drill rig from one soil boring to the next. Soil borings advanced within the ash areas were backfilled with auger cuttings.

In all cases, soil borings were advanced from the ground/water surface to a depth of at least two feet below the bottom of the ash material. ~~or auger refusal, whichever was encountered first. If auger refusal was encountered prior to reaching the planned depth of boring, a maximum of three additional attempts were made within ten feet of the original boring location. In the event that the planned depth of soil boring was not achieved within these limits, the boring location was abandoned and a new location was selected via the VSP software. Final depths of each soil boring were determined in the field based on the observed thickness of ash and subsurface conditions encountered.~~ For this investigation, auger refusal was not encountered in any of the boreholes prior to reaching the planned depth of drilling.

Soil borings were advanced using a combination of continuous split-spoon sampling and hollow stem auger drilling. Each split-spoon sample was examined by the GAI field environmental scientist immediately after removal from the sampler, visually characterized, and inspected for the presence of staining, discoloration, separate-phase hydrocarbon product, or other visible indicators of contamination. The split spoon samples were scanned with a photoionization detector (PID), calibrated daily to isobutylene, for the presence and concentration of volatile organic vapors. Soil boring logs with ash/soil descriptions and PID readings for each of the soil borings were prepared by the GAI environmental scientist and are provided in the attached Exhibit C. GAI collected 12 environmental samples (one sample per soil boring plus one QA/QC sample) for laboratory analyses to evaluate the proposed dredge material. The sample collected for laboratory analysis of all parameters, excluding the volatile organic fraction, were collected as a single composite from each soil boring. A composite sample was collected by retaining a portion of each split-spoon retrieved from a given soil boring in a clean disposable container. Once an individual soil boring was completed, the retained sample was transferred to a stainless steel mixing bowl and thoroughly mixed. The thoroughly mixed sample was then transferred in equal portions to appropriate laboratory supplied sample jars.

For collection of the volatile organic fraction, each split spoon was visually examined for the presence of suspected contamination and screened with a PID. Soil samples for volatile organic analyses were selected from a discrete interval in each boring exhibiting the highest PID readings or other indicators of possible impacts. If no indicators of potential impacts were observed, the sample was collected from a randomly selected depth interval. Selection of the depth interval took into consideration previously completed soil borings in an effort to distribute samples between the top, middle and bottom thirds of the dredge material. Samples collected for the volatile organic fraction analyses were transferred into the appropriate laboratory provided sample jars or prepreserved sample vials depending on the analyses required.

Equipment used for sample collection was properly decontaminated before use to prevent cross-contamination from prior sampling locations. Field sampling equipment used to collect or hold non-aqueous samples were decontaminated prior to each use as follows:

1. Remove visible contamination from the equipment using a brush and/or paper towel saturated with potable water and laboratory grade soap.
2. Rinse the equipment with potable water to remove residual soap and solids.

3. Rinse the equipment with distilled/deionized water meeting ASTM Type II specifications.

Laboratory Analysis

Samples collected for laboratory analysis were properly labeled with the sampling time, date, and sample identification, and were immediately placed into an iced chest and maintained at four degrees Celsius. Samples were submitted, under chain of custody procedures, to ALS Environmental, a VA certified analytical laboratory, under a rush turn-around for results. Samples were submitted for analysis of the required parameters and using appropriate laboratory test methods as specified in Condition I.F.11 of VPDES Permit No. VA0002071.

Reporting

Results of the completed laboratory analysis are presented in the attached Exhibit D. Analytical results are presented on the appropriate VPDES Permit No. VA0002071, Dredge Spoils Monitoring, Attachment B forms. The ALS laboratory analytical data reports providing all results for the submitted samples are provided in Exhibit E. Analytical results indicate all constituent concentrations are below applicable threshold values provided in Attachment B of VPDES Permit No. VA0002071.

Possum Point Ash Pond Closures

General Overview of Closure Process

Plan to close Ponds ABC, D and E under the CCR Rule before April 17, 2018

- Pond E (Clean close)
  - Mechanically dredge ash to Pond D
  - Regrade area
  - Reroute oily waste pond (existing LVW) to station's LVW ponds (Outfall 004)
  - Create new polishing treatment facilities for metals pond within old Pond E footprint
  - Metals pond (existing Outfall 501), non-contact stormwater, and possibly the underdrain from Pond D will be the only remaining sources of water to existing Outfall 005.
- Ponds ABC (Cap and Close in Place)
  - Dewater, fill and grade to produce surface suitable to construct closure
  - Closure will be accomplished under Solid Waste Permit
  - Construct cap in compliance with CCR requirements
  - No remaining discharges are expected except non-contact surface runoff from cap.
- Pond D (Close in place)
  - Decant pond water
  - Dewater ash and fill and grade to produce surface suitable to construct closure
  - Closure will be accomplished under Solid Waste Permit
  - Construct cap in compliance with CCR requirements
  - Remaining discharges following closure
    - Non-contact surface runoff from the surface of the pond
    - Existing toe drain that routes groundwater around the pond infrastructure (Existing Outfall 107)
    - Underdrain associated with the capped pond may discharge for a period following closure. Plan to route this to either Outfall 005 or Outfall 001/002.

Handling of Wastewaters During Process

Three types of wastewater to manage during process

- Ponded surface water (Ponds ABC, D and E)
- Ash dewatering (Ponds ABC, D and E)
- Oily waste basin wastewater (Internal Outfall 502)
- Metals Cleaning Waste (Internal Outfall 501)

Proposed Wastewater Management Strategy

- Discussion of proposed internal routing and management of wastewaters
  - Routing configurations
  - Wastewater management to ensure compliance with basis for existing permit
    - Discussion of process to set bounds for Outfall 005 final discharge characteristics

Path Forward

- DEQ concurrence with process?
- Submit amendment to application for permit modification
    - Should we submit separate notice of planned changes separately or with application for permit modification?
    - What do we need to include?
        - Narrative description of work to be performed and wastewater management strategy
        - Flow diagrams showing transitional and final discharge configurations
        - Conceptual Engineering Report for Wastewater Management System and wastewater characteristics to be achieved.

Possum Point Ash Pond Closures

General Overview of Closure Process

Plan to close Ponds ABC, D and E under the CCR Rule before April 17, 2018

- Pond E (Clean close)
  - Mechanically dredge ash to Pond D
  - Regrade area
  - Reroute oily waste pond (existing LVW) to station's LVW ponds (Outfall 004)
  - Create new polishing treatment facilities for metals pond within old Pond E footprint
  - Metals pond (existing Outfall 501), non-contact stormwater, and possibly the underdrain from Pond D will be the only remaining sources of water to existing Outfall 005.
- Ponds ABC (Cap and Close in Place)
  - Dewater, fill and grade to produce surface suitable to construct closure
  - Closure will be accomplished under Solid Waste Permit
  - Construct cap in compliance with CCR requirements
  - No remaining discharges are expected except non-contact surface runoff from cap.
- Pond D (Close in place)
  - Decant pond water
  - Dewater ash and fill and grade to produce surface suitable to construct closure
  - Closure will be accomplished under Solid Waste Permit
  - Construct cap in compliance with CCR requirements
  - Remaining discharges following closure
    - Non-contact surface runoff from the surface of the pond
    - Existing toe drain that routes groundwater around the pond infrastructure (Existing Outfall 107)
    - Underdrain associated with the capped pond may discharge for a period following closure. Plan to route this to either Outfall 005 or Outfall 001/002.

Handling of Wastewaters During Process

Three types of wastewater to manage during process

- Ponded surface water (Ponds ABC, D and E)
- Ash dewatering (Ponds ABC, D and E)
- Oily waste basin wastewater (Internal Outfall 502)
- Metals Cleaning Waste (Internal Outfall 501)

Proposed Wastewater Management Strategy

- Discussion of proposed internal routing and management of wastewaters
  - Routing configurations
  - Wastewater management to ensure compliance with basis for existing permit
    - Discussion of process to set bounds for Outfall 005 final discharge characteristics

Path Forward

- DEQ concurrence with process?

- Submit amendment to application for permit modification
    - Should we submit separate notice of planned changes separately or with application for permit modification?
    - What do we need to include?
        - Narrative description of work to be performed and wastewater management strategy
        - Flow diagrams showing transitional and final discharge configurations
        - Conceptual Engineering Report for Wastewater Management System and wastewater characteristics to be achieved.

June 23, 2015
Dominion Possum Point Power Station
Ash Pond Closure Projects
Wastewater Handling and Treatment Options
Prepared for Virginia Department of Environmental Quality Meeting

~~**Introduction**~~

~~This document was prepared for Dominion's Possum Point Power Station located in Dumfries, Virginia to summarize the Ash Pond Closure Projects background and to provide information on the Planned Change Options relative to their VPDES Permit VA0002071, as well as the anticipated quantity and quality of wastewater discharges onsite for facilitating discussions with the Virginia Department of Environmental Quality (VDEQ).~~

Background

Dominion is currently working to close three existing, inactive, ash ponds at our Possum Point Power station located in Dumfries, Virginia. The three inactive ponds are designated ABC, D and E and their locations are shown on the attached figure. Pond ABC was originally three contiguous ponds that have been inactive for many years and are being considered as a single pond for closure purposes. All three ponds are scheduled for closure by April 2018 in accordance with the recently promulgated Federal Coal Combustion Residuals (CCR) rule.

Ash Ponds ABC and E will be clean-closed by removal of the existing ash, which will be placed into Pond D (prior to October 14, 2015) or hauled to an offsite landfill (after October 14, 2015). Dominion is currently mechanically dredging the ash from Pond E to Pond D. -Following removal of the ash from Pond E the remaining surface area of Pond E will be regraded (i.e., there will no longer be a Pond E).

Following receipt of the ash from Ponds ABC and E, Pond D will be capped and closed in place in accordance with regulatory requirements

and a new polishing wastewater treatment system constructed to handle the remaining wastewater sources to the existing Outfall 005. Following dewatering and grading to achieve a stable platform, Ash Ponds ABC and D will be closed in place. It is anticipated that closure of Ash Ponds ABC and D will be accomplished under a solid waste permit that will include post closure care and monitoring requirements.

~~Dominion is currently mechanically dredging the ash from Pond E to Pond D. Following removal of the ash from Pond E the remaining surface area of Pond E will be regraded (i.e., there will no longer be a Pond E).~~

For closure of Pond ABC, Dominion is currently investigating two possibilities. One scenario is to cap and close the pond in place, which will involve dewatering of the ash, regrading of the pond

IN PROGRESS

surface and installation of an impermeable surface cap in accordance with regulatory requirements. There is also the possibility that Dominion will remove and relocate the ash from Pond ABC to Pond D. Under this scenario there would be no remaining Pond ABC.

Following receipt of the ash from Pond E, and possibly Pond ABC, Pond D will be capped and closed in place in accordance with regulatory requirements.

The station is currently permitted under VPDES permit No. VA0002071 to discharge wastewaters from Ponds D and E through Outfall 005 to an unnamed tributary of Quantico Creek. In its active state, Pond E received surface water from Pond D as well as wastewaters from two internal discharges: the station's oily waste treatment basin (Outfall 502) and metals cleaning wastes (Outfall 501). As stated above, Ash Pond E has been drained and the remaining ash is being mechanically dredged and placed into Pond D. In addition, internal Outfalls 501 and 502 have been temporarily rerouted from Pond E to Ash Pond D. Stormwater runoff that enters Pond E is also pumped to Pond D. There is currently no discharge from Outfall 005.

The surface of Ash Pond ABC currently consists of a soil layer and vegetative cover. Non-contact surface water runoff is discharged from Pond ABC to Quantico Creek via a decant structure and associated outlet known as Outfall S107.

The process leading to closure of Ponds ABC, D, and E will involve management of the following wastewater types:

- Surface water in Pond D, which must be drained in order to prepare the pond for closure
- Ash dewatering wastewater from Pond D and Ponds ABC, which must be removed in order to allow for grading and compaction of the remaining ash to prepare for installation of the cap.
- Stormwater from Ponds ABC and D that comes into contact with ash during the process of preparing the ponds for closure.

None of the above wastewater types are specifically recognized for discharge to surface waters under the station's existing VPDES permit. However, the characteristics of the wastewaters are similar to those currently permitted for discharge and there is the possibility that some discharge to surface waters may be allowable under the permit. There is also the possibility that the discharge permit could be modified to allow for the direct discharge of these wastewaters; however, the schedule for closure is so tight that modification of the permit may not be possible in time to support project needs. Thus, Dominion is seeking alternative ways to manage these wastewaters, including the possibility of discharge to the PWC treatment plant.

Expected characteristics of each wastewater type, wastewater flows, and scheduling are provided below.

Pertinent Quality Data Obtained to Date

Surface Waters in Pond D at Present

Ash Pond D surface waters are typically limited to stormwater. An Ash Pond D surface water sample was collected on May 5, 2015 and tested (as shown in Table 3). Please note that subsequent to the sampling in Ash Pond D (i.e., after May 5, 2015), the Station has temporarily

stored process wastewater from Internal Outfall 502 in Ash Pond D since Ash Pond E has been decanted. The Station has also directed stormwater collected in Ash Pond E low areas to Ash Pond D.

Surface waters in Ash Pond D and Ash Pond E were sampled and tested on May 5, 2015. The samples were collected after Ash Pond E was decanted, and while stormwater/surface waters in contact with ash were being pumped from Ash Pond E to Ash Pond D. Oily wastewater was also sampled at Internal Outfall 501 and tested on May 7, 2015. The results of the quality tests for those samples are in the Table 3.

A sample of the Ash Pond D surface water was taken June 9, 2015 and the results are pending/preliminary. Two additional samples were collected on June 15 and 16, 2015 and these results are also pending/preliminary. Preliminary results to date for those samples are included in Table 3.

Anticipated Decant Flow Rates and Duration Estimate

Dominion proposes to utilize a dewatering pump with a rated capacity in the 3,000-gpm range; although effectively a wide range of pumping capacities could be made available. Assuming decanting Pond D 24-hrs/day, 7-days/week, and the permanent pool volume in Pond D is roughly 74-Million Gallons, an estimated start and end date for this work is provided below.

Table 1.
Anticipated Decant Rate of Existing Ash Pond D.

Pond D Decant Rate [gpm]	Approximate Start Date	Projected End Date
3,000	July 1, 2015	Aug. 19, 2015

Note that the decant rate can be reduced to accommodate the hydraulic capacity of the collection system (if discharging to Prince William County Service Authority sanitary sewer). Based on Station Daily Monitoring Reports, Ash Pond E has historically discharged up to 5.7-MGD (approximately 3,958-gpm). Therefore, the downstream reach for Outfall 005 is assumed to have sufficient capacity to handle the anticipated Ash Pond D decant flow rate.

Schedule of Milestones for Overall Project

In order to close all Ash Ponds as inactive facilities in accordance with the new CCR Rule, Dominion must adhere to the following schedule:

Table 2.
Proposed Milestone Schedule.

Milestone	Approximate Start Date	Approximate End Date
Stockpile Ash From Pond E in Pond D	June 2015	October 2015
Decant Pond D to Begin Drying of Ash Surface	July 2015	August 2015
Actively Dewatering Ash	October 2015	June 2017

Grading Ash to Establish Subgrade (North Half of Pond)	November 2015	March 2016
Discharge Active Dewatered Water to Outfall	March 2016	June 2017
Grade Ash to Establish Subgrade (South Half of Pond)	March 2016	August 2016
Import Fill from Borrow to Establish Subgrade (Entire Pond)	March 2016	August 2016
Capping Ash (Geosynthetic Liner and 2-feet of Soil)	August 2016	June 2017
Stormwater Controls/Channel Linings	July 2017	August 2017
Soil Amendments, Seed and Stabilize	September 2017	October 2017
New CCR Rule Closure Deadline for Inactive Surface Impoundments	April 17, 2018	April 17, 2018

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Table 3. Bypassing Pond E Justification: Outfall 005 Presumed Discharge Criteria (i.e., Limits), Historical Outfall 005 Quality Data, and Pond D Surface Water, Decanted Pond E Surface Water, and Oily Waste Sample Qualities.

Source	Units	Outfall 005	Outfall 005	Pond D Surface Water				Pond E Surface Water (After Decanting)	Oily Waste Internal Outfall 502
Data or Sample Type		Presumed Limits	Presumed Average	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Sample ID				Pond D	Pond D 2	Pond D 3	Pond D 4	Pond E	502 Discharge
Sample Date				5/5/2015	6/9/2015	6/15/2015	6/16/2015	5/5/2015	5/7/2015
Collected By			Station	GAI	GAI	GAI	GAI	GAI	
Ammonia	mg/L	0.8	< 0.05	< 0.03	< 0.03	< 0.03	< 0.03	0.189	0.108
Antimony, Dissolved	ug/L	1,061	2	2.7	3.4	3.7	3.6	13	< 0.66
Arsenic, Dissolved	ug/L	180	11	7.6	17	18	18	80	< 1
Cadmium, Dissolved	ug/L	0.7	< 0.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloride	mg/L	270	153.2	63.1	71.8	74.3	67.1	72	111
Chromium, Dissolved	ug/L	48	< 20	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Hexavalent Chromium, Dissolved	ug/L	13	< 10	< 0.052	TBD	< 0.052	TBD	< 0.052	< 0.052
Copper, Dissolved	ug/L	5	4	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	7.4
Lead, Dissolved	ug/L	6	< 1	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Mercury, Dissolved	ug/L	0.9	< 0.2	< 0.16	< 0.16	< 0.16	TBD	< 0.16	< 0.16
Nickel, Dissolved	ug/L	13	5	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	24
Selenium, Dissolved	ug/L	6	< 3	< 1.6	6.2	5.7	5.4	19	< 1.6
Thallium, Dissolved	ug/L	0.7	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Zinc, Dissolved	ug/L	51	< 10	5.4	< 1.6	< 1.6	< 1.6	7.8	43
TSS	mg/L	30	6.27	40	9	< 5	TBD	30	10
Oils & Grease	mg/L	15	< 5.00	< 0.5	6.3	< 0.5	TBD	< 0.5	< 0.5
pH	S.U.	6.0 min. 9.0 max.	7.98	7.40	8.07	8.10	7.97	8.19	8.52
Heat Rejection	BTU/hr	N/A	NA	NA	NA	NA	NA	NA	NA
Total Residual Chlorine	mg/L	N/A	NA	0.08	0.00	0.09	0.11	0.06	0.00
Temperature	°C	N/A	TBD	24.38	29.98	31.80	32.50	0.06	0.00

TABLE NOTES:
1) NA = Not Analyzed.
2) N/A = Not Applicable.
3) Non Detects are reported as < Minimum Detection Limit (MDL).
4) Presumed Average Data for Outfall 005 are from maximums of 2008, 2009, 2010, & 2011 annual measured values in Attachment A Water Quality Reporting for VPDES Permit (i.e., chlorides, metals) or averages of data in 2009-2011 Station Daily Monitoring Reports (i.e., ammonia, TSS, O&G, pH).
5) TBD = To Be Determined.
6) pH, Total Residual Chlorine, and Temperature are field measurements.

Proposed Plans During Active Construction

Flow Sources and Routing Options

During the construction phases in which Ash Pond E is to be clean closed, and Ponds ABC and D are to be capped and closed, stormwater and surface waters in contact with ash, ash dewatering "pore waters", and the Station's regular process wastewater flows will need to be handled, treated, and discharged as necessary (Refer to Table 4).

Anticipated qualities of the various wastewater flow sources relative to presumed discharge limits for Outfall 001/002, Outfall 005, and Prince William County Service Authority (PWCSA) sanitary sewer collection system are provided in Tables 5, 6, and 7, respectively. Lab test results on surface water samples taken at Ash Pond D on June 9, 15, and 16, 2015 are pending/preliminary.

The presumed quality of Oily Wastewater relative to Low Volume Wastewater Settling Ponds and discharge limits for Outfall 004 is provided in Table 8. Lab test results on surface water samples taken at the Low Volume Wastewater Settling Ponds on June 8, 2015 are pending/preliminary. Additional sampling of the Oily Wastewater Basin (Internal Outfall 502) are suggested to demonstrate compliance with dissolved copper (Refer to Table 8).

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Table 4. Wastewater Sources: Existing and Proposed During and After Active Construction.

Source	Existing, Proposed During Active Construction, or Proposed After Active Construction	Design Flow Rate [gpm]	Estimated Duration Start	Estimated Duration End	Estimated Volume [MG]	Discharge Point: As Permitted [VPDES Permit No. VA0002071]	Discharge Point: Planned Change Options [OPTION A]	[OPTION B]	[OPTION C]	[OPTION D]	[OPTION E]	NOTES
Metals Cleaning Waste Treatment Facility	Existing	722	N/A	N/A	N/A	Internal Outfall 501 to Ash Pond E	N/A	N/A	N/A	N/A	N/A	Station does not plan to perform Metals Cleaning Waste Processes During Construction Activities.
Oily Wastewater Treatment Basin	Existing	394	N/A	N/A	5	Internal Outfall 502 to Ash Pond E	Pond D to Outfall 005	Low Volume Waste Settling Ponds to Outfall 004	Directly to Outfall 005	Directly to Outfall 001/002	Discharge to PWCSA system	Station has already performed Option A as a result of Ash Pond E being decanted. The Station prefers to obtain approval to permanently redirect Oily Wastewater to the Low Volume Waste Settling Ponds.
Ash Pond E Surface Waters (Decanting)	Existing	N/A	N/A	N/A	N/A	Outfall 005	N/A	N/A	N/A	N/A	N/A	Station has already decanted Ash Pond E surface waters.
Ash Pond D Surface Waters (Decanting)	Existing	3,000	7/15	8/15	74	Ash Pond E to Outfall 005	Directly to Outfall 005	Directly to Outfall 001/002	Treated then to Outfall 005	Treated then to Outfall 001/002	Discharge to PWCSA system	
Ash Pond E Stormwater/Surface Waters in Contact with Ash	Proposed During Active Construction	77	6/15	10/15	17	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	Station has already pumped and is presently pumping Ash Pond E surface water (after decanting) to Pond D. Design flow rate is estimated from drainage area, average rainfall, and runoff curve number.
Ash Pond E Dredged Ash Relocated to Ash Pond D (Rim Ditch and Well Pore Waters)	Proposed During Active Construction	503	6/15	10/15	36	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	
Ash Ponds ABC Stormwater/Surface Waters in Contact with Ash	Proposed During Active Construction	11	3/16	2/17	6	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	Design flow rate is estimated from drainage area, average rainfall, and runoff curve number.
Ash Ponds ABC Ash Dewatering (Rim Ditch and Well Pore Waters)	Proposed During Active Construction	203	3/16	2/17	14	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	
Ash Pond D Stormwater/Surface Waters in Contact with Ash	Proposed During Active Construction	70	10/15	06/17	64	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	Design flow rate is estimated from drainage area, average rainfall, and runoff curve number.
Ash Pond D Ash Dewatering (Rim Ditch and Well Pore Waters)	Proposed During Active Construction	333	10/15	06/17	23	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	
Closed Ash Ponds ABC Passive Underdrain	Proposed After Active Construction	43	3/17	9/18	34	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	
Closed Ash Pond D Passive Underdrain	Proposed After Active Construction	86	6/17	12/18	68	N/A	Treated then to Outfall 005	Treated then to Outfall 001/002	Untreated then to Outfall 005	Untreated then to Outfall 001/002	Discharge to PWCSA system	

TABLE NOTES:
1) N/A = Not Applicable.
2) PWCSA = Prince William County Service Authority.
3) gpm = gallons per minute.
4) MG = Million Gallons.

Table 5. Presumed Qualities of Wastewater Sources Compared to Station Outfall 001/002 Discharge Limits.

Source	Units	Outfall 001/002	Pond E Rim Ditch					Pond E Well						Pond D Surface Water				Pond E Surface Water (After Decanting)	Metal Waste Internal Outfall 501	Oily Waste Internal Outfall 502
Data or Sample Type		Presumed Limits	Grab Sample	Grab Sample	Grab Sample	PRESUMED AVERAGE	PRESUMED WORST CASE	Grab Sample	Grab Sample	Grab Sample	Grab Sample	PRESUMED AVERAGE	PRESUMED WORST CASE	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Sample ID			RMD-1	RMD-2	RMD-3			Well Discharge 1	Well Discharge 2	Well Discharge 3	Well Discharge 3 DUP			Pond D	Pond D 2	Pond D 3	Pond D 4	Pond E	501 Discharge	502 Discharge
Sample Date Collected By			5/5/2015 GAI	5/6/2015 GAI	5/11/2015 GAI			5/11/2015 GAI	5/12/2015 GAI	5/13/2015 GAI	5/13/2015 GAI			5/5/2015 GAI	6/9/2015 GAI	6/15/2015 GAI	6/16/2015 GAI	5/5/2015 GAI	5/6/2015 GAI	5/7/2015 GAI
Ammonia	mg/L	0.26	< 0.03	< 0.03	< 0.03	0.03	0.03	0.306	0.322	0.287	0.292	0.299	0.322	< 0.03	< 0.03	< 0.03	< 0.03	0.189	< 0.03	0.108
Antimony, Dissolved	ug/L	N/A	3.9	16	2.5	7.5	16	< 0.66	< 0.66	< 0.66	< 0.66	0.66	0.66	2.7	2.7	3.4	3.7	13	< 0.66	< 0.66
Arsenic, Dissolved	ug/L	150	24	240	180	148	240	880	810	900	840	858	900	7.6	7.6	17	18	80	< 1	< 1
Cadmium, Dissolved	ug/L	1.7	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloride	mg/L	230	176	191	173	180	191	244	251	247	240	248	251	63.1	63.1	71.8	74.3	72	22.4	111
Chromium, Dissolved	ug/L	114.4	< 0.66	< 0.66	< 0.66	0.66	0.66	2.6	2.4	2.5	2.5	2.5	2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Hexavalent Chromium, Dissolved	ug/L	11	< 0.052	< 0.052	< 0.052	0.052	0.052	NA	< 0.052	< 0.052	< 0.052	0.052	0.052	< 0.052	< 0.052	TBD	< 0.052	< 0.052	< 0.052	< 0.052
Copper, Dissolved	ug/L	14.1	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	
Lead, Dissolved	ug/L	26.5	< 0.66	< 0.66	< 0.66	0.66	0.66	< 0.66	< 0.66	< 0.66	< 0.66	0.66	0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Mercury, Dissolved	ug/L	0.77	< 0.16	< 0.16	< 0.16	0.16	0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.16	0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Nickel, Dissolved	ug/L	31.9	6.7	6.5	11	8.1	11	8	7.6	7.6	7.5	7.7	8	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	
Selenium, Dissolved	ug/L	5	0.5	25	10	15	25	< 1.6	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	< 1.6	6.2	5.7	19	< 1.6	< 1.6
Thallium, Dissolved	ug/L	N/A	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Zinc, Dissolved	ug/L	185.2	8.4	5.4	8.5	7.4	8.5	12	190	11	12	56.3	190	5.4	5.4	< 1.6	< 1.6	7.8	< 1.6	43
TSS	mg/L	N/A	26	159	44	76.3	159	34	19	20	26	24.8	34	40	40	9	< 5	39	< 5	10
Oils & Grease	mg/L	N/A	< 0.5	< 0.5	NA	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.5	< 0.5	< 0.5	6.3	< 0.5	< 0.5	< 0.5	< 0.5
pH	S.U.	6.0 min. 9.0 max.	8.32	8.12	8.01	8.15	8.32	7.63	7.5	7.24	NA	7.46	7.63	7.40	8.07	8.10	7.97	8.19	10.20	8.52
Heat Rejection	BTU/hr	5.58x10^8	NA	NA	NA	N/A	N/A	NA	NA	NA	NA	N/A	N/A	NA	NA	NA	NA	NA	NA	NA
Total Residual Chlorine	mg/L	0.022	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	NA	0	0	0.08	0.00	0.09	0.11	0.06	0.23	0.00

TABLE NOTES:
1) NA = Not Analyzed.
2) N/A = Not Applicable.
3) Non Detects are reported as < Minimum Detection Limit (MDL).
4) TBD = To Be Determined.
5) pH and Total Residual Chlorine are field measurements.

Table 6. Presumed Qualities of Wastewater Sources Compared to Station Outfall 005 Discharge Limits.

Source	Units	Outfall 005	Pond E Rim Ditch					Pond E Well						Pond D Surface Water				Pond E Surface Water (After Decanting)	Metal Waste Internal Outfall 501	Oily Waste Internal Outfall 502
Data or Sample Type		Presumed Limits	Grab Sample	Grab Sample	Grab Sample	PRESUMED AVERAGE	PRESUMED WORST CASE	Grab Sample	Grab Sample	Grab Sample	Grab Sample	PRESUMED AVERAGE	PRESUMED WORST CASE	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Sample ID			RMD-1	RMD-2	RMD-3			Well Discharge 1	Well Discharge 2	Well Discharge 3	Well Discharge 3 DUP			Pond D	Pond D 2	Pond D 3	Pond D 4	Pond E	501 Discharge	502 Discharge
Sample Date Collected By			5/5/2015 GAI	5/6/2015 GAI	5/11/2015 GAI			5/11/2015 GAI	5/12/2015 GAI	5/13/2015 GAI	5/13/2015 GAI			5/5/2015 GAI	6/9/2015 GAI	6/15/2015 GAI	6/16/2015 GAI	5/5/2015 GAI	5/6/2015 GAI	5/7/2015 GAI
Ammonia	mg/L	0.8	< 0.03	< 0.03	< 0.03	0.03	0.03	0.306	0.322	0.287	0.282	0.299	0.322	< 0.03	< 0.03	< 0.03	< 0.03	0.189	< 0.03	0.108
Antimony, Dissolved	ug/L	1,061	3.9	16	2.5	7.5	16	< 0.66	< 0.66	< 0.66	< 0.66	0.66	0.66	2.7	3.4	3.7	3.6	13	< 0.66	< 0.66
Arsenic, Dissolved	ug/L	180	24	240	180	148	240	880	910	900	840	858	900	7.6	17	18	18	80	< 1	< 1
Cadmium, Dissolved	ug/L	0.7	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chloride	mg/L	270	176	191	173	180	191	234	251	247	240	243	251	63.1	71.8	74.3	67.1	72	22.4	111
Chromium, Dissolved	ug/L	48	< 0.66	< 0.66	< 0.66	0.66	0.66	2.6	2.4	2.5	2.5	2.5	2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Hexavalent Chromium, Dissolved	ug/L	13	< 0.052	< 0.052	< 0.052	0.052	0.052	NA	< 0.052	< 0.052	< 0.052	0.052	0.052	< 0.052	TBD	< 0.052	TBD	< 0.052	< 0.052	< 0.052
Copper, Dissolved	ug/L	5	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	7.3
Lead, Dissolved	ug/L	6	< 0.66	< 0.66	< 0.66	0.66	0.66	< 0.66	< 0.66	< 0.66	< 0.66	0.66	0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
Mercury, Dissolved	ug/L	0.9	< 0.16	< 0.16	< 0.16	0.16	0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.16	0.16	< 0.16	< 0.16	< 0.16	TBD	< 0.16	< 0.16	< 0.16
Nickel, Dissolved	ug/L	13	6.7	6.5	11	8.1	11	8	7.6	7.6	7.5	7.7	8	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	7.3
Selenium, Dissolved	ug/L	6	84	25	10	15	25	< 1.6	< 1.6	< 1.6	< 1.6	1.6	1.6	< 1.6	6.2	5.7	5.4	10	< 1.6	< 1.6
Thallium, Dissolved	ug/L	0.7	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	0.33	0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Zinc, Dissolved	ug/L	51	8.4	5.4	8.5	7.4	8.5	12	190	11	12	50.3	190	5.4	< 1.6	< 1.6	< 1.6	7.8	< 1.6	43
TSS	mg/L	30	26	159	44	76.3	159	24	19	20	26	24.8	24	46	9	< 5	TBD	39	< 5	10
Oils & Grease	mg/L	15	< 0.5	< 0.5	NA	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.5	< 0.5	6.3	< 0.5	TBD	< 0.5	< 0.5	< 0.5
pH	S.U.	6.0 min. 9.0 max.	8.32	8.12	8.01	8.15	8.32	7.63	7.5	7.24	NA	7.46	7.63	7.40	8.07	8.10	7.97	8.19	10.10	8.52
Heat Rejection	BTU/hr	N/A	NA	NA	NA	N/A	N/A	NA	NA	NA	NA	N/A	N/A	NA	NA	NA	NA	NA	NA	NA
Total Residual Chlorine	mg/L	N/A	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	NA	0	0	0.08	0.00	0.09	0.11	0.06	0.23	0.00

TABLE NOTES:
1) NA = Not Analyzed.
2) N/A = Not Applicable.
3) Non Detects are reported as < Minimum Detection Limit (MDL).
4) TBD = To Be Determined.
5) pH and Total Residual Chlorine are field measurements.

Table 7. Presumed Qualities of Wastewater Sources Compared to Prince William County Service Authority Pre-Treatment Standards.

Source	Units	PWCSA	Pond E Rim Ditch			Pond E Well				Pond D Surface Water				Pond E Surface Water (After Decanting)	Metal Waste Internal Outfall 501	Oily Waste Internal Outfall 502
Data or Sample Type		Pre-Treatment Standards	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample	Grab Sample
Sample ID			RMD-1	RMD-2	RMD-3	Well Discharge 1	Well Discharge 2	Well Discharge 3	Well Discharge 3 DUP	Pond D	Pond D 2	Pond D 3	Pond D 4	Pond E	501 Discharge	502 Discharge
Sample Date Collected By			5/5/2015 GAI	5/6/2015 GAI	5/11/2015 GAI	5/11/2015 GAI	5/12/2015 GAI	5/13/2015 GAI	5/13/2015 GAI	5/5/2015 GAI	6/9/2015 GAI	6/15/2015 GAI	6/16/2015 GAI	5/5/2015 GAI	5/6/2015 GAI	5/7/2015 GAI
Arsenic	mg/L	**0.23**	0.051	0.37	0.26	1.1	0.92	1.2	1.2	0.01	0.018	0.019	TBD	0.09	< 0.0005	< 0.0005
Cadmium	mg/L	**0.18**	< 0.00016	0.00055	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	TBD	< 0.00016	< 0.00016	< 0.00016
Chromium	mg/L	**2.0**	< 0.00033	0.016	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	TBD	0.0025	< 0.00033	< 0.00033
Copper	mg/L	**2.0**	0.0036	0.084	0.0047	< 0.00083	< 0.00083	< 0.00083	< 0.00083	0.003	< 0.00083	< 0.00083	TBD	0.0062	0.0038	0.015
Cyanide	mg/L	**0.5**	NA	< 0.00058	NA	NA	< 0.00058	NA	NA	< 0.00058	< 0.00058	< 0.00058	< 0.00058	< 0.00058	< 0.00058	< 0.00058
Lead	mg/L	**0.18**	< 0.00033	0.038	0.0017	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	TBD	0.003	< 0.00033	< 0.00033
Mercury	mg/L	**0.001**	< 0.00016	0.00051	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Molybdenum	mg/L	**2.5**	NA	0.05	NA	NA	0.097	NA	NA	0.035	0.049	0.051	TBD	0.083	0.0018	0.0045
Nickel	mg/L	**2.0**	0.0091	0.028	0.013	0.0081	0.0064	0.0082	0.008	0.0045	0.0029	0.0028	TBD	0.014	0.023	0.032
Selenium	mg/L	**3.0**	0.0093	0.04	0.0088	< 0.00066	< 0.00066	< 0.00066	< 0.00066	0.0037	0.0056	0.0052	TBD	0.017	< 0.00066	< 0.00066
Silver	mg/L	**1.0**	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	TBD	< 0.00033	< 0.00033	< 0.00033
Zinc	mg/L	**4.0**	0.0073	0.066	0.013	0.026	0.016	0.016	0.016	0.0071	0.01	< 0.00083	TBD	0.0091	0.0042	0.02
Beryllium	mg/L	**0.088**	NA	0.0072	NA	NA	< 0.0001	NA	NA	< 0.0001	< 0.0001	< 0.0001	TBD	< 0.0001	< 0.0001	< 0.0001
BOD	mg/L	**N/A**	NA	2.3	NA	NA	< 0.8	NA	NA	6.10	< 0.8	TBD	TBD	< 0.8	< 0.8	3.4
TSS	mg/L	**N/A**	26	159	44	34	19	20	26	40	9	< 5	TBD	39	<5	10
Phosphorous	mg/L	**N/A**	NA	0.79	NA	NA	0.37	NA	NA	0.93	TBD	< 0.019	< 0.019	0.16	0.16	0.1
Ammonia	mg/L	**N/A**	<0.03	<0.03	<0.03	0.306	0.322	0.287	0.282	<0.03	<0.03	<0.03	<0.03	0.189	<0.03	0.108
FOG	mg/L	**100**	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	< 0.5	TBD	<0.5	<0.5	<0.5
pH	S.U.	**5.5 to 12.0**	8.32	8.12	8.01	7.63	7.5	7.24	NA	7.40	8.07	8.10	7.97	8.19	10.20	8.52
Temperature	°C	**30**	29.78	26.87	30.59	18.16	18.65	16.36	NA	24.38	29.98	31.98	32.50	26.73	19.35	22.38

TABLE NOTES:
1) NA = Not Analyzed
2) N/A = Not Applicable.
3) PWCSA = Prince William County Service Authority.
4) FOG = Fats, Oils, & Grease.
5) TBD = To Be Determined.
6) pH and Total Residual Chlorine are field measurements.

Table 8. Presumed Quality of Oily Wastewater Compared to Low Volume Wastewater Settling Pond and Outfall 004 Discharge Limits.

Source	Units	Outfall 004	Oily Waste Internal Outfall 502	LVWP Near Inlet	LVWP Near Outfall
Data or Sample Type		Presumed Limits	Grab Sample	Grab Sample	Grab Sample
Sample ID			502 Discharge	LVPN	LVPS
Sample Date			5/7/2015	6/8/2015	6/8/2015
Collected By			GAI	GAI	GAI
Presumed Design Flow Rates (gpm)			394		
Ammonia	**mg/L**	**4**	0.108	< 0.03	< 0.03
Antimony, Dissolved	ug/L	**27,064**	< 0.66	< 0.33	< 0.33
Arsenic, Dissolved	ug/L	**279**	< 1	< 1	< 1
Cadmium, Dissolved	ug/L	**1**	< 0.33	< 0.33	< 0.33
Chloride	**mg/L**	**706**	111	76.2	61.1
Chromium, Dissolved	ug/L	**256**	< 0.66	< 0.66	< 0.66
Hexavalent Chromium, Dissolved	ug/L	**13**	< 0.052	0.25	< 0.052
Copper, Dissolved	ug/L	**5**	7.3	< 1.6	< 1.6
Lead, Dissolved	ug/L	**38**	< 0.66	< 0.66	< 0.66
Mercury, Dissolved	ug/L	**1**	< 0.16	< 0.16	< 0.16
Nickel, Dissolved	ug/L	**80**	21	< 1.6	< 1.6
Selenium, Dissolved	ug/L	**16**	< 1.6	< 1.6	< 1.6
Thallium, Dissolved	ug/L	**19**	< 0.33	< 0.33	< 0.33
Zinc, Dissolved	ug/L	**51**	43	13	9.8
TSS	**mg/L**	**30**	10	8	8
Oils & Grease	**mg/L**	**15**	< 0.5	< 0.5	< 0.5
pH	S.U.	**6.0 min. 9.0 max.**	8.52	8.9	9.6
Heat Rejection	BTU/hr	**1.9x10^8**	NA	NA	NA
Total Residual Chlorine	**mg/L**	**0.026**	0.00	0.07	0.02

TABLE NOTES:
1) NA = Not Analyzed
2) TBD = To Be Determined.
3) pH and Total Residual Chlorine are field measurements.

Possum Point Dewatering Discharge Evaluation

Parameter	Limit (ug/L)
Antimony	1,280
Arsenic	300
Cadmium	1.3
Chromium	81
Hexavalent Chromium	22
Copper	9.8
Lead	11
Mercury	1.54
Nickel	22
Selenium	10
Thallium	0.94
Zinc	126

C13MOZ2Y1

A. **Effluent Limitations and Monitoring Requirements**

4. **Outfall 005 – Ash Pond E**

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 005. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	2/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	2/M	Grab
Total Suspended Solids (TSS)	30 mg/L	NA	NA	100 mg/L	2/M	Grab

I. Biological Monitoring for Outfall 001/Outfall 002, Outfall 003, Outfall 004 and Outfall 005

a. In accordance with the schedule in Part I.C.2. below, the permittee shall conduct annual chronic toxicity tests for the duration of the permit. The permittee shall collect grab samples of effluent from Outfall 001/002, Outfall 003, Outfall 004 and Outfall 005 at each outfall's respective designated point of compliance.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest shall be performed. The NOEC as determined by hypothesis testing shall be converted to TU_c (Chronic Toxic Units) for DMR reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

c. The test dilutions shall bracket and include the following endpoints:

Outfall 001/002, Outfall 003 and Outfall 005: Chronic NOEC $\geq$ 35%; equivalent to a $TU_c \leq 2.85$

Possum Point Dewatering Discharge Evaluation - 005

Parameter	Limit (ug/L)
Antimony	1,280
Arsenic	300
Cadmium	1.3
Chromium	81
Hexavalent Chromium	22
Copper	9.8
Lead	11
Mercury	1.54
Nickel	22
Selenium	10
Thallium	0.94
Zinc	126

A. Effluent Limitations and Monitoring Requirements

4. Outfall 005 – Ash Pond E

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 005. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average(1)	Daily Maximum(1)	Minimum	Maximum(1)	Frequency	Sample Type
Flow(2) (MGD)	NL	NA	NA	NL	2/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	2/M	Grab
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	2/M	Grab
Total Suspended Solids (TSS)	30 mg/L	NA	NA	100 mg/L	2/M	Grab

I. Biological Monitoring for Outfall 001/Outfall 002, Outfall 003, Outfall 004 and Outfall 005

a. In accordance with the schedule in Part I.C.2. below, the permittee shall conduct annual chronic toxicity tests for the duration of the permit. The permittee shall collect grab samples of effluent from Outfall 001/ 002, Outfall 003, Outfall 004 and Outfall 005 at each outfall's respective designated point of compliance.

The chronic tests to use are:

Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia*

Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*

These chronic tests shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction or growth. Results which cannot be quantified (i.e., a "less than" NOEC value) are not acceptable and a retest shall be performed. The NOEC as determined by hypothesis testing shall be converted to TU_c (Chronic Toxic Units) for DMR reporting where $TU_c = 100/NOEC$. Report the LC_{50} at 48 hours and the IC_{25} with the NOEC's in the test report.

c. The test dilutions shall bracket and include the following endpoints:

Outfall 001/002, Outfall 003 and Outfall 005: Chronic NOEC $\geq$ 35%; equivalent to a $TU_c \leq 2.85$

Possum Point Dewatering Discharge Evaluation – Outfall 004

Parameter	Limit (ug/L)
Antimony	32,000
Arsenic	680
Cadmium	3.4
Chromium	620
Hexavalent Chromium	32
Copper	13
Lead	93
Mercury	2.8
Nickel	196
Selenium	40
Thallium	23.5
Zinc	126

A. Effluent Limitations and Monitoring Requirements

3. Outfall 004 – Low Volume Waste Settling Pond

a. There shall be no discharge of floating solids or visible foam in other than trace amounts.

b. During the period beginning with the permit's effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall Number 004. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirements	
	Monthly Average[1]	Daily Maximum[1]	Minimum	Maximum[1]	Frequency	Sample Type
Flow[2] (MGD)	NL	NA	NA	NL	2/M	Estimate
pH	NA	NA	6.0 S.U.	9.0 S.U.	2/M	Grab
Heat Rejection (Unit 6)[3]	NA	NA	NA	1.9×10^8 BTU/hr	2/M	Calculated
Total Residual Chlorine (TRC)[4]	0.026 mg/L	NA	NA	0.038 mg/L	1/W	Grab
Temperature	NL (°C)	NA	NA	NL (°C)	1/W	IS
Oil and Grease (O&G)	15 mg/L	NA	NA	20 mg/L	2/M	Grab
Total Suspended Solids (TSS)	30 mg/L	NA	NA	100 mg/L	2/M	Grab
Total Nitrogen[5]	NL (mg/L)	NA	NA	NA	1/6M	Calculated
Total Kjeldahl Nitrogen (TKN)	NL (mg/L)	NA	NA	NA	1/6M	Grab
Nitrate+Nitrite ($NO_2 + NO_3$), as N	NL (mg/L)	NA	NA	NA	1/6M	Grab
Ammonia, as N	NL (mg/L)	NA	NA	NA	1/6M	Grab
Total Phosphorus	NL (mg/L)	NA	NA	NA	1/6M	Grab
Chronic Toxicity – *C. dubia* (TU_c)[6]	NA	NA	NA	NL	1/YR	Grab
Chronic Toxicity – *P. promelas* (TU_c)[6]	NA	NA	NA	NL	1/YR	Grab

See Biological Monitoring for Outfall 001/Outfall 002, Outfall 003, Outfall 004 and Outfall 005

Dominion Resource Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
dom.com

Dominion

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 6, 2015

Ms. Susan Mackert
Department of Environmental Quality
Northern Regional Office
13901 Crown Court,
Woodbridge, VA 22193

Re: Dominion - Possum Point Power Station – VA0002071
Placement of Dredge Material Notification

Dear Ms. Mackert:

The following information is provided in accordance with Possum Point Power Station's VPDES permit VA0002071 Part I, Condition F.11. Dominion is providing this notice that we intend to begin mechanically dredging material from Low Volume Settling Ponds (LVSP) C and D to Ash Pond D. Placement of the material in Pond D will be completed prior to October 16, 2015. Dominion estimates that a maximum of 13,600 cubic yards of ash and soil materials will be dredged from LVSP C and D to Ash Pond Pond D.

Sampling and analysis of the material in LVSP C and D were conducted in accordance with Part I, Condition F.11(c). A sampling plan describing sample collection methods and analytical results using the forms provided in Attachment B of the permit are provided as attachments to this letter. All measured analytical results were below threshold levels listed in the permit.

Dominion would like to begin dredging operations as soon as possible in order to support the project schedule. To that end, we are requesting that DEQ waive the requirement to provide notice at least 30 days prior to the placement of material in Pond D and grant authorization to proceed upon review of this submission.

If you have any questions and/or comments regarding this information please contact Ken Roller, of Dominion Electric Environmental Services, at (804) 273-3494.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Cathy C. Taylor
Director, Electric Environmental Services

Attachments

File Name: **2015 8-6 PP Placement of Ash Notification**

Please send electronic renamed copy to:

David Craymer
Pam Faggert
Sidney Bragg
Cathy Taylor
Karen Canody
Ken Roller
Oula Shehab
Amelia Boschen
Jeff Heffelman
Jeff Marcell
Documentum: Possum Point P.S. / NPDES-Water / Compliance Reporting and Supporting Documentation

The work consisted of conducting in-situ dredge material sampling and analytical laboratory analysis at Low Volume Settling Ponds (LVSP) C and D in accordance with the requirements of Condition I.F.11 of Possum Point Power Station's VPDES Permit (Permit No. VA0002071).

Project Background

The LVSP are located southeast of the Possum Point Power Station near the inlet between Quantico Creek and the Potomac River. The LVSP consist of four separate ponds (A, B, C, and D) that slope to the southwest and eventually discharge into an outfall pipe (Outfall 004) into Quantico Creek. The ponds were previously used to collect runoff from the coal storage pile at the station, until coal combustion ceased in March 2003.

Based on initial evaluations of the ponds conducted by Dominion, only LVSP C and LVSP D require dredging as part of the closure activities. Materials to be dredged consist primarily of water backwash media and sand and coal pile runoff fines. Based on a review of available information concerning the pond dimensions, it is estimated that LVSP C contains approximately 4,100 cubic yards (CY) of material while LVSP D contains approximately 7,200 CY of material. The thickness of the dredge material is expected to vary at the bottom of each pond, but it is estimated that the average thickness is approximately two feet.

As part of potential clean closure construction activities for the LVSPs, material will be mechanically dredged from LVSP C and LVSP D and transported to Ash Pond D. In order to meet the requirements of Condition I.F.11 of the VPDES Permit, the dredge material was sampled and analyzed.

Scope of Work

The LVSP sampling and laboratory analysis were completed in accordance with applicable state and federal guidelines, regulations, and requirements as applicable to the subsurface conditions encountered. The sampling and laboratory analysis evaluated the dredge material for comparison to criteria established under Condition I.F.11 of the VPDES Permit.

In accordance with Condition I.F.11 of the VPDES Permit, for volumes between 1,000 CY and 50,000 CY, two representative samples of dredge material are required. The samples should be a composite of the proposed dredge material to the depth of the intended dredge. Based on evaluation of the material thickness and pond dimensions, the combined dredge volume from LVSP C and LVSP D has been estimated to be approximately 11,300 CY. Using a volume estimate factor of 20% to account for additional volumes due to estimation error and over excavation of pond bottom material, the final estimated combined volume of dredge material for LVSP C and LVSP D is approximately 13,600 CY.

Based on an estimated 13,600 CY of combined dredge material, and in accordance with the requirements of two samples per dredge volume between 1,000 CY and 50,000 CY, a total of two representative samples of the planned dredge material volume were collected.

Sample Location Determination

Sample locations were selected to provide a representative sample of the dredge materials that will be placed in Ash Pond D and based on available access to each pond with an extended arm backhoe. Approximate sample locations are depicted on the attached Figure 1 (Exhibit A) as dredged trenches excavated from each pond.

Sample Collection

An extended arm backhoe was used to dredge two locations in each pond and recover dredge material for sample collection. The dredge trenches were excavated to a depth which penetrated the full thickness of the material and extended into the pond bottom material. For each pond, the two dredge samples were examined by the GAI field environmental scientist immediately after removal from the bucket, visually characterized, and inspected for the presence of staining, discoloration, separate-phase hydrocarbon product, or other visible indicators of contamination. The dredge samples were scanned with a photoionization detector (PID), calibrated to isobutylene, for the presence and concentration of volatile organic vapors.

GAI collected one environmental sample from each pond (LV C and LV D) for laboratory analyses to evaluate the proposed dredge material. The sample collected for laboratory analysis of all parameters, excluding the volatile organic fraction, was collected as a single composite from the two dredge trenches. A composite sample was collected by retaining a portion of each dredge sample retrieved from the backhoe bucket in a clean disposable container. The retained sample was transferred to a stainless steel mixing bowl and thoroughly mixed. The thoroughly mixed sample was then transferred in equal portions to appropriate laboratory supplied sample jars.

For collection of the volatile organic fraction, each dredge sample was visually examined for the presence of suspected impacts and screened with a PID. Soil samples for volatile organic analyses were selected from a discrete portion exhibiting the highest PID readings or other indicators of possible impacts. If no indicators of potential impacts were observed, the sample was collected from a randomly selected portion of the dredge material. Samples collected for the volatile organic fraction analyses were transferred into the appropriate laboratory provided sample jars or pre-preserved sample vials depending on the analyses required.

Equipment used for sample collection was properly decontaminated before use to prevent cross-contamination from prior sampling locations. Field sampling equipment used to collect or hold non-aqueous samples were decontaminated prior to use as follows:

1. Remove visible contamination from the equipment using a brush and/or paper towel saturated with potable water and laboratory grade soap.
2. Rinse the equipment with potable water to remove residual soap and solids.
3. Rinse the equipment with distilled/deionized water meeting ASTM Type II specifications.

Laboratory analysis

Samples collected for laboratory analysis were properly labeled with the sampling time, date, and sample identification, and were immediately placed into an iced chest and maintained at four degrees Celsius. Samples were submitted, under chain of custody procedures, to ALS Environmental, a VA certified analytical laboratory, under a standard turn-around for results. Samples were submitted for analysis of the required parameters and using appropriate laboratory test methods as specified in Condition 11 of VPDES Permit No. VA0002071.

Reporting

Results of the completed laboratory analysis are presented in the attached Exhibit B. Analytical results are presented on the appropriate VPDES Permit No. VA0002071, Dredge Spoils Monitoring, Attachment B forms. The ALS laboratory analytical data reports providing all results for the submitted samples are provided in Exhibit C. Analytical results indicate all constituent concentrations are below applicable threshold values provided in Attachment B of VPDES Permit No. VA0002071.

Approximate Dredge Sample Location

N

Not to Scale

Figure 1 - Sample Locations
Low Volume Settling Ponds C and D
Sampling and Analysis

EXHIBIT B

VPDES Permit No. VA0002071 Attachment B Forms

gai consultants
transforming ideas into reality

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4
FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level (1) (mg/l)	Reporting Results (1) (mg/l)	Sample Type (2)	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	2.6	< 2.6	G
457		Arsenic III	1632	0.346	1.78	G
441	16055-83-1	Chromium III	Calculation	6.1	35.6	G
231	18540-29-9	Chromium VI	7196A	5.9	< 5.9	G
442	744-50-8	Copper	6020A	6.5	272	G
445	7440-02-0	Nickel	6020A	6.5	71.6	G
	7440-28-0	Thallium	6020A	1.3	< 1.3	G
448	7440-66-6	Zinc	6020A	6.5	296	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0254	< 0.0254	G
334		Chlorpyrifos Dursban	8141B	0.106	< 0.106	G
--	72-54-8	DDD	8081B	0.0494	< 0.0494	G
--	72-55-9	DDE	8081B	0.0494	< 0.0494	G
335	50-29-3	DDT	8081B	0.0494	< 0.0494	G
336	8065-48-3	Demeton	8141B	0.106	< 0.106	G
337	60-57-1	Dieldrin	8081B	0.0494	< 0.0494	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0254	< 0.0254	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0494	< 0.0494	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0494	< 0.0494	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0494	< 0.0494	G
340	86-50-0	Guthion	8141B	0.106	< 0.106	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0254	< 0.0254	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0254	< 0.0254	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0254	< 0.0254	G
--	143-50-0	Kepone	8270D	2.94	< 2.94	G
343	121-75-5	Malathion	8141B	0.106	< 0.106	G
345	2385-85-5	Mirex	8081B	0.0494	< 0.0494	G
346	56-38-2	Parathion	8141B	0.106	< 0.106	G
--	1336-36-3	Total PCB	8082A	0.099	<0.099	G
641	53469-21-9	PCB-1242	8082A	0.099	<0.099	G
642	11097-69-1	PCB-1254	8082A	0.099	<0.099	G
643	11104-28-2	PCB-1221	8082A	0.099	<0.099	G
644	11141-16-5	PCB-1232	8082A	0.099	<0.099	G
645	12672-29-6	PCB-1248	8082A	0.099	<0.099	G
618	11096-82-5	PCB-1260	8082A	0.099	<0.099	G
646	12674-11-2	PCB-1016	8082A	0.099	<0.099	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.294	< 0.294	G
275	120-12-7	Anthracene	8270D	0.294	< 0.294	G
--	92-87-5	Benzidine	8270D	2.35	< 2.35	G
276	56-55-3	Benzo(a) anthracene	8270D	0.294	< 0.294	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.294	< 0.294	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.294	< 0.294	G
277	50-32-8	Benzo(a)pyrene	8270D	0.294	< 0.294	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.294	< 0.294	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.294	< 0.294	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.294	< 0.294	G
--	91-58-7	2-Chloronaphthalene	8270D	0.294	< 0.294	G
282	218-01-9	Chrysene	8270D	0.294	< 0.294	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.294	< 0.294	G
206	84-74-2	Dibutyl phthalate	8270D	0.294	< 0.294	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.294	< 0.294	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.294	< 0.294	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.440	< 0.440	G
285	84-66-2	Diethyl phthalate	8270D	0.294	< 0.294	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.294	< 0.294	G
286	131-11-3	Dimethyl Phthalate	8270D	0.294	< 0.294	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.294	< 0.294	G
287	206-44-0	Fluoranthene	8270D	0.294	< 0.294	G
288	86-73-7	Fluorene	8270D	0.294	< 0.294	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.793	< 0.793	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.294	< 0.294	G
650	78-59-1	Isophorone	8270D	0.294	< 0.294	G
293	91-20-3	Naphthalene	8270D	0.294	< 0.294	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.294	< 0.294	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.294	< 0.294	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.294	< 0.294	G
296	129-00-0	Pyrene	8270D	0.294	< 0.294	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.294	< 0.294	G
		Volatiles (Part B.4)				
171	107-02-8	Acrolein	8260B	0.131	< 0.131	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0262	< 0.0262	G
484	75-25-2	Bromoform	8260B	0.0052	< 0.0052	G
652	124-48-1	Chlorodibromomethane	8260B	0.0052	< 0.0052	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0052	< 0.0052	G
244	75-27-4	Dichlorobromomethane	8260B	0.0052	< 0.0052	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0052	< 0.0052	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0052	< 0.0052	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0105	< 0.0105	G
172	100-41-4	Ethylbenzene	8260B	0.0052	< 0.0052	G
--	74-83-9	Methyl Bromide	8260B	0.0052	< 0.0052	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0262	< 0.0262	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0052	< 0.0052	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.0052	< 0.0052	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0052	< 0.0052	G
155	79-01-6	Trichloroethylene	8260B	0.0052	< 0.0052	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	0.793	< 0.793	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.587	< 0.587	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.793	< 0.793	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.793	< 0.793	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.587	< 0.587	G
175	108-95-2	Phenol	8270D	0.793	< 0.793	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	0.73	< 0.73	G
350		Tributyltin	Krone	0.0029	< 0.0029	G
257		TPH (Total petroleum Hydrocarbons)	9071B	605	5770	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

David A. Craymer
Name of Principal Executive Officer or Authorized Agent

VP Power Generation System Operations
Title

Signature of Principal Executive Officer or Authorized Agent

7/28/15
Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/l)	Reporting Results [1] (mg/l)	Sample Type [2]	Threshold Levels (mg/l)
Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Tricholorphenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
Metals (Part B.1)						
178	7429-90-5	Antimony	6020A	4.7	< 4.7	G
457		Arsenic III	1632	0.125	0.877	G
441	16055-83-1	Chromium III	Calculation	10	80.5	G
231	18540-29-9	Chromium VI	7196A	9.8	< 9.8	G
442	744-50-8	Copper	6020A	11.8	417	G
445	7440-02-0	Nickel	6020A	11.8	69.7	G
	7440-28-0	Thallium	6020A	2.4	< 2.4	G
448	7440-66-6	Zinc	6020A	11.8	440	G
Pesticides/PCB'S (Part B.2)						
332	309-00-2	Aldrin	8081B	0.0419	< 0.0419	G
334		Chlorpyirfos Dursban	8141B	0.172	< 0.172	G
--	72-54-8	DDD	8081B	0.0814	< 0.0814	G
--	72-55-9	DDE	8081B	0.0814	< 0.0814	G
335	50-29-3	DDT	8081B	0.0814	< 0.0814	G
336	8065-48-3	Demeton	8141B	0.172	< 0.172	G
337	60-57-1	Dieldrin	8081B	0.0814	< 0.0814	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0419	< 0.0419	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0814	< 0.0814	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0814	< 0.0814	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0814	< 0.0814	G
340	86-50-0	Guthion	8141B	0.172	< 0.172	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0419	< 0.0419	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0419	< 0.0419	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0419	< 0.0419	G
--	143-50-0	Kepone	8270D	4.81	< 4.81	G
343	121-75-5	Malathion	8141B	0.172	< 0.172	G
345	2385-85-5	Mirex	8081B	0.0814	< 0.0814	G
346	56-38-2	Parathion	8141B	0.172	< 0.172	G
--	1336-36-3	Total PCB	8082A	0.16	< 0.16	G
641	53469-21-9	PCB-1242	8082A	0.16	< 0.16	G
642	11097-69-1	PCB-1254	8082A	0.16	< 0.16	G
643	11104-28-2	PCB-1221	8082A	0.16	< 0.16	G
644	11141-16-5	PCB-1232	8082A	0.16	< 0.16	G
645	12672-29-6	PCB-1248	8082A	0.16	< 0.16	G
618	11096-82-5	PCB-1260	8082A	0.16	< 0.16	G
646	12674-11-2	PCB-1016	8082A	0.16	< 0.16	G
Base Neutral Extractable (Part B.3)						
273	208-96-8	Acenaphthene	8270D	0.481	< 0.481	G
275	120-12-7	Anthracene	8270D	0.481	< 0.481	G
--	92-87-5	Benzidine	8270D	3.85	< 3.85	G
276	56-55-3	Benzo(a) anthracene	8270D	0.481	< 0.481	G

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Dredge Spoils Monitoring
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FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.481	< 0.481	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.481	< 0.481	G
277	50-32-8	Benzo(a)pyrene	8270D	0.481	< 0.481	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.481	< 0.481	G
279	102-60-1	Bis 2-Chrloroiso-Propyl Ether	8270D	0.481	< 0.481	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.481	< 0.481	G
--	91-58-7	2-Chloronaphthalene	8270D	0.481	< 0.481	G
282	218-01-9	Chrysene	8270D	0.481	< 0.481	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.481	< 0.481	G
206	84-74-2	Dibutyl phthalate	8270D	0.481	< 0.481	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.481	< 0.481	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.481	< 0.481	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.721	< 0.721	G
285	84-66-2	Diethyl phthalate	8270D	0.481	< 0.481	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethlhexyl) Phthalate)	8270D	0.481	< 0.481	G
286	131-11-3	Dimethyl Phthalate	8270D	0.481	< 0.481	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.481	< 0.481	G
287	206-44-0	Fluoranthene	8270D	0.481	0.768	G
288	86-73-7	Fluorene	8270D	0.481	< 0.481	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	1.30	< 01.30	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.481	< 0.481	G
650	78-59-1	Isophorone	8270D	0.481	< 0.481	G
293	91-20-3	Naphthalene	8270D	0.481	< 0.481	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.481	< 0.481	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.481	< 0.481	G
575	621-64-7	N-Nitrosodi-n-proplyamine	8270D	0.481	< 0.481	G
296	129-00-0	Pyrene	8270D	0.481	0.67	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.481	< 0.481	G
		Volatiles (Part B.4)				
171	107-02-8	Acrolein	8260B	0.201	< 0.201	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0402	< 0.0402	G
484	75-25-2	Bromoform	8260B	0.008	< 0.008	G
652	124-48-1	Chlorodibromomethane	8260B	0.008	< 0.008	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.008	< 0.008	G
244	75-27-4	Dichlorobromomethane	8260B	0.008	< 0.008	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.008	< 0.008	G
261	78-87-5	1,2-Dichloropropane	8260B	0.008	< 0.008	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichlorpropylene)	8260B	0.0161	< 0.0161	G
172	100-41-4	Ethylbenzene	8260B	0.008	< 0.008	G
--	74-83-9	Methyl Bromide	8260B	0.008	< 0.008	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0402	< 0.0402	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.008	< 0.008	G

DEPARTMENT OF ENVIRONMENTAL QUALITY
Dredge Spoils Monitoring
ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015 PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level [1] (mg/kg)	Reporting Results [1] (mg/kg)	Sample Type [2]
222	108-88-3	Toluene	8260B	0.008	< 0.008	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.008	< 0.008	G
155	79-01-6	Trichloroethylene	8260B	0.008	< 0.008	G
Acids Extratable (part B.5)						
267	95-57-8	2-Chlorophenol	8270D	1.3	< 1.3	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.962	< 0.962	G
269	105-67-9	2,4 Dimethylphenol	8270D	1.3	< 1.3	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	1.3	< 1.3	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.962	< 0.962	G
175	108-95-2	Phenol	8270D	1.3	< 1.3	G
Miscellaneous (Part B.6)						
018		Cyanide, Total	9012B	1.3	< 1.3	G
350		Tributyltin	Krone	0.0052	< 0.0052	G
257		TPH (Total petroleum Hydrocarbons)	9071B	980	6620	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statues may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years.)

David A. Craymer
Name of Principal Executive Officer or Authorized Agent

VP Power Generation System Operations
Title

Signature of Principal Executive Officer or Authorized Agent

7/28/15
Date

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

(2) Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and repot the average results provided that the individual grab results are also reported

(3) Any approved method presented in 40 CFR Part 136

(4) The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

EXHIBIT C
Analytical Laboratory Reports

gai consultants
transforming ideas into reality

ALS Environmental

34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

July 9, 2015

Mr. Ed Sciulli
GAI Consultants
385 E. Waterfront Dr.
Homestead, PA 15120

Certificate of Analysis

Revised Report - 7/9/2015 11:20:00 AM - See workorder comment section for explanation

Project Name:	**2015-VIRGINIA POWER-POSSUM**	Workorder:	**2076025**
Purchase Order:		Workorder ID:	**Dominion Possum Point**

Dear Mr. Sciulli:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 10, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Katie Tuite

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

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SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2076025001	ABC 2 Grab	Solid	6/9/2015 11:00	6/10/2015 19:50	Collected by Client
2076025002	ABC 2 Comp	Solid	6/9/2015 11:15	6/10/2015 19:50	Collected by Client
2076025003	ABC 3 Grab	Solid	6/9/2015 09:00	6/10/2015 19:50	Collected by Client
2076025004	ABC 3 Comp	Solid	6/9/2015 09:15	6/10/2015 19:50	Collected by Client
2076025005	ABC 4 Grab	Solid	6/9/2015 12:45	6/10/2015 19:50	Collected by Client
2076025006	ABC 4 Comp	Solid	6/9/2015 13:00	6/10/2015 19:50	Collected by Client
2076025007	Low Volume C Grab	Solid	6/10/2015 10:00	6/10/2015 19:50	Collected by Client
2076025008	Low Volume C Comp	Solid	6/10/2015 10:05	6/10/2015 19:50	Collected by Client
2076025009	Low Volume D Grab	Solid	6/10/2015 10:10	6/10/2015 19:50	Collected by Client
2076025010	Low Volume D Comp	Solid	6/10/2015 10:15	6/10/2015 19:50	Collected by Client

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SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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PROJECT SUMMARY

Workorder: 2076025 Dominion Possum Point

Workorder Comments

See attached subcontracted tributylin results from ALS-Kelso. VLF 7/7/15

See attached subcontracted trivalent arsenic results from Brooks Rand. VLF 7/7/15

This report was modified on 7/7/15 to attach subcontracting and add PCB. VLF

Sample Comments

Lab ID: 2076025002 **Sample ID:** ABC 2 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025004 **Sample ID:** ABC 3 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025005 **Sample ID:** ABC 4 Grab **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

Lab ID: 2076025006 **Sample ID:** ABC 4 Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025008 **Sample ID:** Low Volume C Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Lab ID: 2076025010 **Sample ID:** Low Volume D Comp **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025001** Date Collected: 6/9/2015 11:00 Matrix: Solid

Sample ID: **ABC 2 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:25	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:25	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	98.6		%	62 - 133	SW846 8260B			6/18/15 08:25	JPA	D
4-Bromofluorobenzene (S)	86.9		%	79 - 114	SW846 8260B			6/18/15 08:25	JPA	D
Dibromofluoromethane (S)	98.5		%	78 - 116	SW846 8260B			6/18/15 08:25	JPA	D
Toluene-d8 (S)	97.7		%	76 - 127	SW846 8260B			6/18/15 08:25	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	47.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Acrylonitrile	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromoform	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Bromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
2-Butanone	ND		ug/kg	9.5	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	3.8	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Methylene Chloride	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Toluene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
4-Bromofluorobenzene (S)	116		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
Dibromofluoromethane (S)	114		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025001** Date Collected: 6/9/2015 11:00 Matrix: Solid

Sample ID: **ABC 2 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	108		%	59 - 131	SW846 8260B	6/9/15	JPA	6/11/15 13:06	JPA	A
WET CHEMISTRY										
Moisture	41.9		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	58.1		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzidine	ND		ug/kg	1310	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(a)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(a)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Butylbenzylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Chloronaphthalene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Chlorophenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Chrysene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Di-n-Butylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	246	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dichlorophenol	ND		ug/kg	328	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Diethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dimethylphenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Dimethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2,4-Dinitrophenol	ND		ug/kg	328	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Fluorene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Isophorone	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Kepone	ND		ug/kg	1640	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Naphthalene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Phenol	ND		ug/kg	442	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	85.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.6		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.2		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	65.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	65.4		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	72		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	69.9		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	70.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	67.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Terphenyl-d14 (S)	77.7		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	72.5		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 15:36	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1016	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1221	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1232	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1242	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1248	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1254	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Aroclor-1260	ND		mg/kg	0.057	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	187	1	%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
Tetrachloro-m-xylene (S)	112		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 14:59	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
alpha-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
beta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
delta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
gamma-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
alpha-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
gamma-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDD	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDE	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
4,4'-DDT	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Dieldrin	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan I	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan II	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin Aldehyde	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Endrin Ketone	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Heptachlor	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.6	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Methoxychlor	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Mirex	ND		ug/kg	28.3	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Toxaphene	ND		ug/kg	111	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	70.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
Tetrachloro-m-xylene (S)	54.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 18:55	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Alachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Atrazine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Azinphos Methyl	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Bolstar	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Bromacil	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Butachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Chlorpyrifos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Coumaphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Cyanizine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Demeton	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Diazinon	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Dichlorovos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Dimethoate	ND		ug/kg	77.6	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
EPN	ND		ug/kg	104	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Ethoprop	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Fensulfothion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Fenthion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Malathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Methyl Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Metolachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Metribuzin	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Mevinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Molinate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Phorate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Prometon	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Propachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Ronnel	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Simazine	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Sulfotep	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Tetrachlorinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Tokuthion	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Trichloronate	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Trifluralin	ND		ug/kg	60.4	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	38.5		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 20:15	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	56		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	40		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 04:29	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.44	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	819		mg/kg	349	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	42.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	349	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	58.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.5	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.16		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Arsenic, Total	2.9		mg/kg	0.16	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Chromium, Total	0.61		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Copper, Total	1.7		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Nickel, Total	0.73		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Thallium, Total	ND		mg/kg	0.053	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
Zinc, Total	1.1		mg/kg	0.27	SW846 6020A	6/14/15	JPS	6/15/15 06:09	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Barium, Total	3.8		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:55	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:07	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid

Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.1		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2-Fluorobiphenyl (S)	65.9		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
2-Fluorophenol (S)	44.8		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Nitrobenzene-d5 (S)	69.2		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Phenol-d5 (S)	28		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
Terphenyl-d14 (S)	78.5		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:08	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	56.4		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
Tetrachloro-m-xylene (S)	81.1		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:26	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	105		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 17:45	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025002**	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	**ABC 2 Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid

Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:43	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:43	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B			6/18/15 08:43	JPA	D
4-Bromofluorobenzene (S)	85.5		%	79 - 114	SW846 8260B			6/18/15 08:43	JPA	D
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			6/18/15 08:43	JPA	D
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B			6/18/15 08:43	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	52.9	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Acrylonitrile	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromodichloromethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromoform	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
2-Butanone	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Chlorodibromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.2	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Methylene Chloride	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Toluene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Trichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
4-Bromofluorobenzene (S)	122		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Dibromofluoromethane (S)	122		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid
Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	*Cntr*
Toluene-d8 (S)	117		%	59 - 131	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
WET CHEMISTRY										
Moisture	40.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	59.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzidine	ND		ug/kg	1440	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(a)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(a)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Butylbenzylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Chloronaphthalene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Chlorophenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Chrysene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Di-n-Butylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	269	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dichlorophenol	ND		ug/kg	359	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Diethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dimethylphenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Dimethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2,4-Dinitrophenol	ND		ug/kg	359	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Fluorene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Isophorone	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Kepone	ND		ug/kg	1790	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Naphthalene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Phenol	ND		ug/kg	484	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.3		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	70.8		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	72.4		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	64.3		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	63.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Nitrobenzene-d5 (S)	70.1		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	72.2		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	63.4		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	65.8		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Terphenyl-d14 (S)	65.3		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	70		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:00	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1016	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1221	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1232	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1242	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1248	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Aroclor-1260	ND		mg/kg	0.059	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	119		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
Tetrachloro-m-xylene (S)	82.4		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:11	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
alpha-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
beta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
delta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
gamma-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
alpha-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
gamma-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDD	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDE	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
4,4'-DDT	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Dieldrin	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan I	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan II	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endosulfan Sulfate	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin Aldehyde	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Endrin Ketone	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Heptachlor	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Heptachlor Epoxide	ND		ug/kg	15.3	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Methoxychlor	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Mirex	ND		ug/kg	29.6	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Toxaphene	ND		ug/kg	117	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.4		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
Tetrachloro-m-xylene (S)	43.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:10	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Alachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Atrazine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Azinphos Methyl	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Bolstar	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Bromacil	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Butachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Chlorpyrifos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Coumaphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Cyanizine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Demeton	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Diazinon	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Dichlorovos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Dimethoate	ND		ug/kg	80.2	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
EPN	ND		ug/kg	107	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Ethoprop	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Fensulfothion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Fenthion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Malathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Methyl Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Metolachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Metribuzin	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Mevinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Molinate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Phorate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Prometon	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Propachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Ronnel	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Simazine	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A
Sulfotep	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Tetrachlorinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Tokuthion	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Trichloronate	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Trifluralin	ND		ug/kg	62.4	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	38.3		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 19:12	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	65.5		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	55.7		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 03:52	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.46	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	805		mg/kg	366	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.5	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	45.4		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	366	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	54.6		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.7	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.13		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Arsenic, Total	3.1		mg/kg	0.17	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Chromium, Total	0.80		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Copper, Total	2.0		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Nickel, Total	0.70		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Thallium, Total	ND		mg/kg	0.057	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
Zinc, Total	1.6		mg/kg	0.28	SW846 6020A	6/14/15	JPS	6/15/15 06:13	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Barium, Total	3.9		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:56	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:10	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid

Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.6		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2-Fluorobiphenyl (S)	65.4		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
2-Fluorophenol (S)	47.9		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Nitrobenzene-d5 (S)	69.7		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Phenol-d5 (S)	30.6		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
Terphenyl-d14 (S)	78.1		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 13:44	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.2		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
Tetrachloro-m-xylene (S)	76.8		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:42	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	111		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 15:53	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025004**	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	**ABC 3 Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

(ALS) Environmental

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid

Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 07:34	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:34	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	93.7		%	62 - 133	SW846 8260B			6/18/15 07:34	JPA	D
4-Bromofluorobenzene (S)	84.9		%	79 - 114	SW846 8260B			6/18/15 07:34	JPA	D
Dibromofluoromethane (S)	93.2		%	78 - 116	SW846 8260B			6/18/15 07:34	JPA	D
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B			6/18/15 07:34	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	41.0	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Acrylonitrile	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromodichloromethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromoform	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Bromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
2-Butanone	ND		ug/kg	8.2	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Chlorodibromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
trans-1,2-Dichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,2-Dichloropropane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,3-Dichloropropene, Total	ND		ug/kg	3.3	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Ethylbenzene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Methylene Chloride	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Toluene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
1,1,2-Trichloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Trichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	182	7	%	56 - 124	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
4-Bromofluorobenzene (S)	138	9	%	51 - 128	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
Dibromofluoromethane (S)	201	6	%	62 - 123	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid

Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	202	8	%	59 - 131	SW846 8260B	6/9/15	TMP	6/12/15 18:02	TMP	C
WET CHEMISTRY										
Moisture	45.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	54.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzidine	ND		ug/kg	1330	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(a)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(a)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Butylbenzylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Chloronaphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Chlorophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Chrysene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Di-n-Butylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	250	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dichlorophenol	ND		ug/kg	333	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Diethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dimethylphenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Dimethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2,4-Dinitrophenol	ND		ug/kg	333	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Fluorene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Isophorone	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Kepone	ND		ug/kg	1660	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Naphthalene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Phenol	ND		ug/kg	449	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.9		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	86		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Fluorobiphenyl (S)	76.2		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	74.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
2-Fluorophenol (S)	64.5		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	63.8		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Nitrobenzene-d5 (S)	74		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	76.2		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Phenol-d5 (S)	64.7		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	62.9		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Terphenyl-d14 (S)	80.6		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	75.2		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:24	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1016	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1221	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1232	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1242	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1248	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1254	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Aroclor-1260	ND		mg/kg	0.056	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	113		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	84.8		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:23	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
alpha-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
beta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
delta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
gamma-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
alpha-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
gamma-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDD	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDE	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
4,4'-DDT	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Dieldrin	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan I	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan II	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin Aldehyde	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Endrin Ketone	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Heptachlor	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.4	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Methoxychlor	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Mirex	ND		ug/kg	28.0	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Toxaphene	ND		ug/kg	110	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	53.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
Tetrachloro-m-xylene (S)	52		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:26	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Alachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Atrazine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Azinphos Methyl	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Bolstar	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Bromacil	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Butachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Chlorpyrifos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Coumaphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Cyanizine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Demeton	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Diazinon	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Dichlorovos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Dimethoate	ND		ug/kg	74.4	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
EPN	ND		ug/kg	99.2	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Ethoprop	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Fensulfothion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Fenthion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Malathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Methyl Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Metolachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Metribuzin	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Mevinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Molinate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Phorate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Prometon	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Propachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Ronnel	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Simazine	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Sulfotep	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Tetrachlorinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Tokuthion	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Trichloronate	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Trifluralin	ND		ug/kg	57.8	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	47.8		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 20:46	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	72.1		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	48		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:06	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.42	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	605		mg/kg	336	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	41.1		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	336	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	58.9		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	ND		mg/kg	3.4	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	0.21		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Arsenic, Total	3.9		mg/kg	0.16	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Chromium, Total	0.69		mg/kg	0.11	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Copper, Total	2.1		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Nickel, Total	0.85		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Thallium, Total	0.059		mg/kg	0.053	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
Zinc, Total	0.87		mg/kg	0.26	SW846 6020A	6/14/15	JPS	6/15/15 06:28	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Barium, Total	3.7		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:57	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
Silver, Total	0.24		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:14	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid

Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	62.2		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2-Fluorobiphenyl (S)	55		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
2-Fluorophenol (S)	36.6		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Nitrobenzene-d5 (S)	56.8		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Phenol-d5 (S)	23.3		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
Terphenyl-d14 (S)	76.2		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:32	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	52.8		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
Tetrachloro-m-xylene (S)	64.8		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 14:58	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	119		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 18:22	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid

Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 07:51	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 07:51	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B			6/18/15 07:51	JPA	D
4-Bromofluorobenzene (S)	84.8		%	79 - 114	SW846 8260B			6/18/15 07:51	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			6/18/15 07:51	JPA	D
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B			6/18/15 07:51	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	131	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Acrylonitrile	ND		ug/kg	26.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromodichloromethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromoform	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Bromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
2-Butanone	ND		ug/kg	26.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Chlorodibromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,2-Dichloropropane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	10.5	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Ethylbenzene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Methylene Chloride	ND	1	ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Toluene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Trichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	104		%	56 - 124	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
4-Bromofluorobenzene (S)	110		%	51 - 128	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15	JPA	6/11/15 14:16	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid

Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
WET CHEMISTRY									
Moisture	70.9		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	29.1		%	0.1	S2540G-11		6/11/15 09:19	JP	A

Shannon Butler

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzidine	ND		ug/kg	2350	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(a)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(a)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Butylbenzylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Chloronaphthalene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Chlorophenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Chrysene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Di-n-Butylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	440	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dichlorophenol	ND		ug/kg	587	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Diethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dimethylphenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Dimethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2,4-Dinitrophenol	ND		ug/kg	587	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Fluorene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Isophorone	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Kepone	ND		ug/kg	2940	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Naphthalene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Phenol	ND		ug/kg	793	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	82.1		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	79.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Fluorobiphenyl (S)	69.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	71.1		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
2-Fluorophenol (S)	71.6		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	71.7		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	73.5		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	75.7		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Phenol-d5 (S)	72		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	69.1		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	67.3		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	72.2		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 16:49	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1016	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1221	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1232	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1242	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1248	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1254	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Aroclor-1260	ND		mg/kg	0.099	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	101		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
Tetrachloro-m-xylene (S)	104		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:34	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
alpha-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
beta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
delta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
gamma-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
alpha-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
gamma-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDD	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDE	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
4,4'-DDT	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Dieldrin	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan I	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan II	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endosulfan Sulfate	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin Aldehyde	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Endrin Ketone	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Heptachlor	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Heptachlor Epoxide	ND		ug/kg	25.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Methoxychlor	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Mirex	ND		ug/kg	49.4	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Toxaphene	ND		ug/kg	195	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	63.4		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
Tetrachloro-m-xylene (S)	44.4		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:42	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Alachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Atrazine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Azinphos Methyl	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Bolstar	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Bromacil	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Chlorpyrifos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Coumaphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Cyanizine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Demeton	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Diazinon	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Dichlorovos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Dimethoate	ND		ug/kg	137	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
EPN	ND		ug/kg	182	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Ethoprop	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Fensulfothion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Fenthion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Malathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Methyl Parathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Metolachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Metribuzin	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Mevinphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Molinate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Parathion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Phorate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Prometon	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Propachlor	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Ronnel	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Simazine	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Sulfotep	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Tetrachlorinphos	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Tokuthion	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Trichloronate	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
Trifluralin	ND		ug/kg	106	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	71.2		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 21:18	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	79.6		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	111		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 05:43	KJH	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	0.73	SW846 9012B	6/12/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	5770		mg/kg	605	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	5.9	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	67.3		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	2990		mg/kg	605	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	32.7		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	35.6		mg/kg	6.1	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	2.6	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Arsenic, Total	25.0		mg/kg	3.9	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Chromium, Total	35.6		mg/kg	2.6	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Copper, Total	272		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Nickel, Total	71.6		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Thallium, Total	ND		mg/kg	1.3	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
Zinc, Total	296		mg/kg	6.5	SW846 6020A	6/14/15	JPS	6/15/15 06:32	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:58	MNP	A3
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/16/15	JPS	6/17/15 11:35	SRT	A2
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid

Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	70.7		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2-Fluorobiphenyl (S)	69.3		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
2-Fluorophenol (S)	47.5		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Nitrobenzene-d5 (S)	73.9		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Phenol-d5 (S)	29.4		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
Terphenyl-d14 (S)	82.9		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 14:57	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	75.8		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
Tetrachloro-m-xylene (S)	69.1		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 16:16	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 22:07	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025008**	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	**Low Volume C Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid

Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B			6/18/15 08:08	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			6/18/15 08:08	JPA	D
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	95		%	62 - 133	SW846 8260B			6/18/15 08:08	JPA	D
4-Bromofluorobenzene (S)	82.6		%	79 - 114	SW846 8260B			6/18/15 08:08	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			6/18/15 08:08	JPA	D
Toluene-d8 (S)	94		%	76 - 127	SW846 8260B			6/18/15 08:08	JPA	D
VOLATILE ORGANICS										
Acrolein	ND		ug/kg	201	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Acrylonitrile	ND		ug/kg	40.2	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromodichloromethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromoform	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Bromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
2-Butanone	ND		ug/kg	40.2	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Chlorodibromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,2-Dichloropropane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	16.1	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Ethylbenzene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Methylene Chloride	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Toluene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Trichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	109		%	56 - 124	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
4-Bromofluorobenzene (S)	120		%	51 - 128	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid
Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene-d8 (S)	97.2		%	59 - 131	SW846 8260B	6/10/15	JPA	6/11/15 14:39	JPA	A
WET CHEMISTRY										
Moisture	79.2		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Total Solids	20.8		%	0.1	S2540G-11			6/11/15 09:19	JP	A

Shannon Butler
Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzidine	ND		ug/kg	3850	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(a)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(a)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Butylbenzylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Chloronaphthalene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Chlorophenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Chrysene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Di-n-Butylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,3-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	721	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dichlorophenol	ND		ug/kg	962	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Diethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dimethylphenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Dimethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2,4-Dinitrophenol	ND		ug/kg	962	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2-Diphenylhydrazine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Fluoranthene	768		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Fluorene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Isophorone	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Kepone	ND		ug/kg	4810	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Naphthalene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitrosodimethylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Phenol	ND		ug/kg	1300	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pyrene	670		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	90.9		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	94.2		%	37 - 123	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Fluorobiphenyl (S)	78.5		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorobiphenyl (S)	76.7		%	45 - 105	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
2-Fluorophenol (S)	74		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2-Fluorophenol (S)	73.5		%	35 - 104	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Nitrobenzene-d5 (S)	75.5		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Nitrobenzene-d5 (S)	77.8		%	41 - 110	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	71.6		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Phenol-d5 (S)	74.2		%	40 - 100	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	90.6		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Terphenyl-d14 (S)	84.5		%	38 - 113	SW846 8270D	6/11/15	BS	6/11/15 17:13	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1016	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1221	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1232	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1242	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1248	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1254	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Aroclor-1260	ND		mg/kg	0.16	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: 2076025010 Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: Low Volume D Comp Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	108		%	46 - 120	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
Tetrachloro-m-xylene (S)	107		%	52 - 115	SW846 8082A	6/11/15	KAC	7/8/15 15:45	EGO	
PESTICIDES										
Aldrin	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
alpha-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
beta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
delta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
gamma-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
alpha-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
gamma-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDD	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDE	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
4,4'-DDT	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Dieldrin	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan I	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan II	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endosulfan Sulfate	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin Aldehyde	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Endrin Ketone	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Heptachlor	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Heptachlor Epoxide	ND		ug/kg	41.9	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Methoxychlor	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Mirex	ND		ug/kg	81.4	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Toxaphene	ND		ug/kg	321	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	61.2		%	30 - 135	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
Tetrachloro-m-xylene (S)	46.8		%	30 - 111	SW846 8081B	6/11/15	KAC	6/13/15 19:57	RWS	A
ORGANOPHOSPHORUS COMPOUNDS										
Acetochlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Alachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Atrazine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Azinphos Methyl	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Bolstar	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Bromacil	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A

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ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Chlorpyrifos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Coumaphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Cyanizine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Demeton	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Diazinon	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Dichlorovos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
O,O-Diethyl O-pyrazinylphoshor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Dimethoate	ND		ug/kg	221	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
EPN	ND		ug/kg	294	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Ethoprop	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Fensulfothion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Fenthion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Malathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Methyl Parathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Metolachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Metribuzin	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Mevinphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Molinate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Parathion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Phorate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Prometon	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Propachlor	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Ronnel	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Simazine	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Sulfotep	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Tetrachlorinphos	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Tokuthion	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Trichloronate	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Trifluralin	ND		ug/kg	172	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	77.1		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	83.6		%	16 - 169	SW846 8141B	6/12/15	KAC	6/15/15 06:20	KJH	A

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
IS_Triphenylphosphate (S)	60.4		%	16 - 169	SW846 8141B	6/12/15	KAC	6/13/15 21:49	EGO	A
WET CHEMISTRY										
Cyanide, Total	ND		mg/kg	1.3	SW846 9012B	6/13/15	SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	6620		mg/kg	980	SW846 9071B			6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	9.8	SW846 7196A	6/15/15	THB	6/15/15 18:00	THB	A
Moisture	80.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
Silica Gel Treated HEM	3380		mg/kg	980	SW846 9071B			6/21/15 12:30	AT	A
Total Solids	20.0		%	0.1	S2540G-11			6/11/15 09:19	JP	A
METALS										
Trivalent Chromium	80.5		mg/kg	10.0	Calculation			6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	4.7	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Arsenic, Total	19.2		mg/kg	7.1	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Chromium, Total	80.5		mg/kg	4.7	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Copper, Total	417		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Nickel, Total	69.7		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Thallium, Total	ND		mg/kg	2.4	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
Zinc, Total	440		mg/kg	11.8	SW846 6020A	6/14/15	JPS	6/15/15 06:35	ZMC	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15	MNP	6/17/15 12:59	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15	JPS	6/18/15 12:25	SRT	A3
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachlorobutadiene	ND	2	ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Hexachloroethane	ND	1	ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A

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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid

Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	66.7		%	40 - 125	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2-Fluorobiphenyl (S)	67.1		%	50 - 110	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
2-Fluorophenol (S)	45.4		%	20 - 75	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Nitrobenzene-d5 (S)	69.8		%	40 - 110	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Phenol-d5 (S)	27.6		%	13 - 49	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
Terphenyl-d14 (S)	79		%	50 - 122	SW846 8270D	6/19/15	PDK	6/20/15 15:21	GEC	A
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyls (S)	62.1		%	30 - 140	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
Tetrachloro-m-xylene (S)	73.9		%	30 - 123	SW846 8081B	6/16/15	CAC	6/17/15 16:32	RWS	A
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15	PDK	6/18/15 22:44	KJH	A
SUBCONTRACTED ANALYSIS										
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB	E

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	**2076025010**	Date Collected:	6/10/2015 10:15	Matrix:	Solid
Sample ID:	**Low Volume D Comp**	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	*Cntr*

Shannon Butler

Ms. Shannon Butler
Project Coordinator

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2076025002	1	ABC 2 Comp	SW846 8082A	Decachlorobiphenyls

The surrogate Decachlorobiphenyls for method SW846 8082A was outside of control limits. The % Recovery was reported as 187 and the control limits were 46 to 120. This result was reported at a dilution of 1.

2076025005	6	ABC 4 Grab	SW846 8260B	Dibromofluoromethane

The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 201 and the control limits were 62 to 123. This result was reported at a dilution of 1.

2076025005	7	ABC 4 Grab	SW846 8260B	1,2-Dichloroethane-d4

The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 182 and the control limits were 56 to 124. This result was reported at a dilution of 1.

2076025005	8	ABC 4 Grab	SW846 8260B	Toluene-d8

The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 202 and the control limits were 59 to 131. This result was reported at a dilution of 1.

2076025005	9	ABC 4 Grab	SW846 8260B	4-Bromofluorobenzene

The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 138 and the control limits were 51 to 128. This result was reported at a dilution of 1.

2076025007	1	Low Volume C Grab	SW846 8260B	Methylene Chloride

The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 139 and the control limits were 68 to 133.

2076025010	1	Low Volume D Comp	SW846 8270D	Hexachloroethane

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachloroethane. The RPD was reported as 30.1 and the upper control limit is 30.

2076025010	2	Low Volume D Comp	SW846 8270D	Hexachlorobutadiene

The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachlorobutadiene. The RPD was reported as 31.9 and the upper control limit is 30.

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Page 1 of 2

Courier:

Tracking #:

20760 25

Co. Name: GAC CONSULTANTS, INC.

Contact (Report to): ED SCIULLI, PG

Phone: 412-476-3000

Address: 385 E. WATERFRONT DRIVE
HOMESTEAD, PA 15120

Bill to (if different than Report to):

PO#:

DOMINION POSSUM POINT

Project Name/#: C150133.00

ALS Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. ✓ Rush-Subject to ALS approval and surcharges (WATER SAMPLE ONLY)

Date Required:

Approved By:

Email? ✓ Y E.SCIULLI@GACCONSULTANTS.COM

Fax? Y No:

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	***Container Type	C	C	C	C	C	C	A			
							***Container Size	32 oz	40 mL	40 mL	4 oz	4 oz	8 oz	4 oz			
							***Preservative	NONE	Na OH	Na OH	NONE	NONE	NONE	NONE			
							ANALYSES/METHOD REQUESTED	MISC PARAMETERS (PART B.1) PESTICIDES (PART B.2) TCLP (EXCEPT VOCS) (PART A)	VOC'S (PART B.4)	VOC'S (PART B.4)	TCLP WASTE VOA (PART A)	AS 3 (SUB TO KELLO)	TRIBUTYLTIN (SUB TO KELLO)	VOC'S (PART B.4) EXTRA CONTAINER			
							Enter Number of Containers Per Analysis										
1	ABC 2 GRAB		6/9/15	11:00	G	SO			2	1	1			1			
2	ABC 2 COMP			11:15	C			2				1	1				
3	ABC 3 GRAB			9:00	G				2	1	1			1			
4	ABC 3 COMP			9:15	C			2				1	1				
5	ABC 4 GRAB			12:45	G				2	1	1			1			
6	ABC 4 COMP			13:00	C			2				1	1				
7	SEE POSSUM POINT FULL LIST PARAMETERS FOR PWS 0 #2									ON SEPARATE COC							
8	~~[illegible]~~ SW - SURFACE WATER RUSH TAT		~~[illegible]~~	~~[illegible]~~	~~[illegible]~~												

Correct containers? Y Y Y Y
Correct sample volume? Y Y Y Y
Correct preservation? Y Y Y Y
Headspace/Volatiles? Y Y Y Y
Circle appropriate Y or N.

Custody seals Present? Y Y Y Y
(if present) Seals Intact? Y Y Y Y
Received on Ice? Y Y Y Y
COC/Labels complete/accurate? Y Y Y Y
Container in good condition? Y Y Y Y

Received by (signature/Sample Receipt): Received by: LMG
Cooler Temp: 1
Therm. ID: 191
No. of Coolers:
Notes:

SAMPLED BY (Please Print): EUGENE COONEY JR

Project Comments: RWL 6/11 137

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 GAC CONSULTANTS	6/9/15	18:00	2 [signature]	6/10	1103
3 [signature]	6/10/15	1700	4 [signature]	6/10	1905
5 [signature]	6/10	1950	6 SFS	6/10	1950
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ other

EDDs required? ☐ If yes, format type:

SDWA Forms? yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected in? MD ☐ NJ ☐ NY ☐ PA ☐ Other

DOD Criteria Required?

ALS FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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6291

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Page 2 of 2

Courier:

Tracking #:

025

Co. Name: GAI CONSULTANTS, INC.

Contact (Report to): ED SCIULLI, PG

Phone: 412-476-2000

Address: 385 E. WATERFRONT DR. HOMESTEAD, PA 15120

Bill to (if different than Report to):

PO#:

DOMINION POSSUM POINT

Project Name/#: C150132.00

ALS Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.

Date Required:

Approved By:

Email? ✓ Y E.SCIULLI@GAICONSULTANTS.COM

Fax? Y No.:

***Container Type	C	C	C	C	C	C	A								
***Container Size	32 oz	40 mL	40 mL	4 oz	4 oz	8 oz	4 oz								
*** Preservative	NONE	NaOH	MeOH	NONE	NONE	NONE	NONE								

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	METALS (8.1) BVA (8.3 & 8.5) PEST/PCB'S (8.2) MISC (8.6) TCLP EXCEPT VOA (PART A)	VOC'S (PART 8.4)	VOC'S (PART 8.4)	TCLP WASTE VOA (PART A)	AS 3 (SUB TO KELSO)	TRIBUTYLIN (SUB TO KELSO)	VOC'S (8.4) EXTRA CONTAINER			
1 LOW VOLUME C GRAB		6/10/15	10:00	G	SO		2	1	1			1			
2 LOW VOLUME C COMP.		↓	10:05	C	↓	2				1	1				
3 LOW VOLUME D GRAB		↓	10:10	G	↓		2	1	1			1			
4 LOW VOLUME D COMP.		↓	10:15	C	↓	2				1	1				
5															
6															
7															
8															

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)

Performed by: [illegible]

Cooler Temp: 1

Therm. ID: 291

No. of Coolers:

Notes:

Sample Description/Location	Custody seals Present?	(If present) Seals Intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
1 LOW VOLUME C GRAB	Y	Y	Y	Y	Y
2 LOW VOLUME C COMP.	Y	Y	Y	Y	Y
3 LOW VOLUME D GRAB	Y	Y	Y	Y	Y
4 LOW VOLUME D COMP.	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): EUGENE COONEY JR

Project Comments: RMK 6/11 137

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 [signature] GAI CONSULTANTS	6/10/15	11:00	2 [signature] / ALS	6/10/15	1100
3 [signature]	6/10/15	1700	4 [signature]	6/10	1705
5 [signature]	6/10	1950	6 SFS	6/10	1950
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ (other)

EDDs Required? ☐ If yes, format type:

SDWA Forms? yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☐ Other

DOD Criteria Required?

ALS FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite **Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY ***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 01-2013

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COC #:	1 of 1
ALSI Quote #:	

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.: _____

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic
Container Type			C		
Container Size			4 oz		
Preservative			None		
2076025 002	6/9/15	1115	G	SO	1
2076025 004	6/9/15	0915	G	SO	1
2076025 006	6/9/15	1300	G	SO	1
2076025 008	6/9/15	1005	G	SO	1
2076025 010	6/9/15	1015	G	SO	1

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:
LOGGED BY (signature): Date: Time:
REVIEWED BY (signature): Date: Time:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/15/15	1547	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] [ ] other
Reportable to PADEP? Yes [ ] PWSID # _____
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix: Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:	1 of 1
ALSI Quote #:	

Client Name: ALS Environmental
Address: 34 Dogwood Lane
Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT [x] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [x] -Y almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y No.: _____

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin										
			Container Type		C										
			Container Size		8 oz										
			Preservative		None										
			Enter Number of Containers Per Sample or Field Results Below.												
2076025 002	6/9/15	1115	G	SO	1										
2076025 004	6/9/15	0915	G	SO	1										
2076025 006	6/9/15	1300	G	SO	1										
2076025 008	6/9/15	1005	G	SO	1										
2076025 010	6/9/15	1015	G	SO	1										

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier Tracking #: _____

Sample/COC Comments
Subcontract: ALS-Kelso

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:

LOGGED BY(signature): Date Time
REVIEWED BY(signature): Date Time

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/10/15	1045	2		
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ] PWSID # _____
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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ALS

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

July 05, 2015

Analytical Report for Service Request No: K1506480

Vicki Forney
ALS Environmental
34 Dogwood Lane
Middletown, PA 17057

RE: 2076025

Dear Vicki,

Enclosed are the results of the sample(s) submitted to our laboratory June 16, 2015
For your reference, these analyses have been assigned our service request number **K1506480.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

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REPRODUCTIONS RIGHTS

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
  DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
ISO 17025	http://www.pjlabs.com/	L14-50
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

ALS Environmental

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577- 7222 Fax (360)636- 1068
www.alsglobal.com

Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/ SAMPLER. INSTRUCTIONS ON THE BACK

COC #: K1506480 | 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown, PA 17057
Contact: Vicki Comey
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental

TAT: [X] Normal Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [X] Y: almdt.subcontract@ALSGlobal.com
Fax? [ ] Y: No.

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Tributyltin									
Container Type			C											
Container Size			8 oz											
Preservative			None											
2076025 002	6/9/15	1115	G	SO	1									
2076025 004	6/9/15	0915	G	SO	1									
2076025 006	6/9/15	1300	G	SO	1									
2076025 008	6/9/15	1005	G	SO	1									
2076025 010	6/9/15	1015	G	SO	1									

ANALYSES/METHOD REQUESTED — Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #: _____

Sample/COC Comments: Subcontract: ALS-Kelso

ALSI Field Services: ☐Pickup ☐Labor ☐Composite Sampling ☐Rental Equipment ☐Other: _____

Project Comments:
LOGGED BY (signature): Date: Time:
REVIEWED BY (signature): Date: Time:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/16/15	1000	2 ALS	6/16/15	0915
3			4		
5			6		
7			8		
9			10		

Data Deliverables: ☐ Standard ☐ CLP-like ☐ USACE
Special Processing: USACE ☐ Navy ☐
State Samples Collected In: ☐ NY ☐ NJ ☐ PA ☐ NC ☐ other
Reportable to PADEP? Yes ☐ PWSID #
Sample Disposal: Lab ☐ Special ☐
EDDs: Format Type:

* G=Grab; C=Composite **Matrix - Air=Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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ALS

6301

PC HH

Cooler Receipt and Preservation Form

Client / Project: ALS Middletown Service Request K15 6480

Received: 6/10/15 Opened: 6/10/15 By: UK Unloaded: 6/10/15 By: UK

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler COC ID (NA)	Tracking Number (NA)	Filed
-0.4	-0.4	2.1	2.1	0	353		7738 3605 4133	

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was Cl2/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by

Sample ID	Bottle Count Bottle Type	Out of Temp	Head space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page ____ *of* ____

ALS Environmental

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/9/15
Sample Matrix:	Soil	Date Received:	06/16/15
Analysis Method:	160.3 Modified	Units:	Percent
Prep Method:	None	Basis:	NA

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
2076025 002	K1506480-001	63.5	-	1	06/17/15 15:55	
2076025 004	K1506480-002	60.7	-	1	06/17/15 15:55	
2076025 006	K1506480-003	63.0	-	1	06/17/15 15:55	
2076025 008	K1506480-004	34.4	-	1	06/17/15 15:55	
2076025 010	K1506480-005	19.6	-	1	06/17/15 15:55	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	Service Request:	K1506480
Project	2076025	Date Collected:	NA
Sample Matrix:	Soil	Date Received:	NA
Analysis Method:	160.3 Modified	Units:	Percent
Prep Method:	None	Basis:	NA

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1505572-050DUP	-	60.6	60.7	60.7	<1	20	06/17/15
Batch QC	K1506492-001DUP	-	88.9	89.3	89.1	<1	20	06/17/15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/19/2015 4:11:56 PM

Superset Reference: 15-0000336049 rev 00

ALS Environmental

Butyltins (as cation)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 002	Units:	ug/Kg
Lab Code:	K1506480-001	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	67	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 004	Units:	ug/Kg
Lab Code:	K1506480-002	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.7	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	76	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 006	Units:	ug/Kg
Lab Code:	K1506480-003	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	63	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 008	Units:	ug/Kg
Lab Code:	K1506480-004	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	2.9	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	88	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	06/09/2015
Sample Matrix:	Soil	Date Received:	06/16/2015

Butyltins (as cation)

Sample Name:	2076025 010	Units:	ug/Kg
Lab Code:	K1506480-005	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	5.2	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	80	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp, dba ALS Environmental

Analytical Results

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Collected:	NA
Sample Matrix:	Sediment	Date Received:	NA

Butyltins (as cation)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1505433-5	Basis:	Dry
Extraction Method:	METHOD	Level:	Low
Analysis Method:	Krone		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	0.98	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	56	10-120	06/24/15	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025		
Sample Matrix:	Sediment		

Surrogate Recovery Summary
Butyltins (as cation)

Extraction Method:	METHOD	**Units:**	Percent
Analysis Method:	Krone	**Level:**	Low

Sample Name	Lab Code	Sur1
Batch QC	K1506354-001	75
2076025 002	K1506480-001	67
2076025 004	K1506480-002	76
2076025 006	K1506480-003	63
2076025 008	K1506480-004	88
2076025 010	K1506480-005	80
Batch QCDUP	KWG1505433-1	73
Method Blank	KWG1505433-5	56
Batch QCMS	KWG1505433-2	77
Batch QCDMS	KWG1505433-3	70
Lab Control Sample	KWG1505433-4	76

Surrogate Recovery Control Limits (%)

Sur1 = Tri-n-propyltin 10-120

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Matrix Spike/Duplicate Matrix Spike Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

		Batch QCMS KWG1505433-2 Matrix Spike			Batch QCDMS KWG1505433-3 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Tri-n-butyltin Cation	ND	20.8	30.9	67	21.7	30.9	70	10-115	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K1506480
Project:	2076025	**Date Extracted:**	06/18/2015
Sample Matrix:	Sediment	**Date Analyzed:**	06/24/2015

Duplicate Sample Summary
Butyltins (as cation)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1506354-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	Krone	**Extraction Lot:**	KWG1505433

Analyte Name	MRL	Sample Result	Batch QCDUP KWG1505433-1 Duplicate Sample Result	Average	Relative Percent Difference	RPD Limit
Tri-n-butyltin Cation	1.4	ND	ND	ND	-	40

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	Service Request:	K1506480
Project:	2076025	Date Extracted:	06/18/2015
Sample Matrix:	Sediment	Date Analyzed:	06/24/2015

Lab Control Spike Summary
Butyltins (as cation)

Extraction Method:	METHOD	Units:	ug/Kg
Analysis Method:	Krone	Basis:	Dry
		Level:	Low
		Extraction Lot:	KWG1505433

	Lab Control Sample KWG1505433-4 Lab Control Spike			
Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Tri-n-butyltin Cation	16.8	22.2	76	10-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

BROOKS RAND LABS
MEANINGFUL METALS DATA®

June 30, 2015

ALS - Middletown
ATTN: Vicki Forney
34 Dogwood Lane
Middletown PA 17057
vicki.forney@alsglobal.com

RE: Project ALS-MD1501 Client Project: 2076025

Dear Vicki Forney,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 16, 2015. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a concentration much less than the native sample and were not analyzed. A post-preparation spike (PS) was analyzed and recovered within acceptance criteria.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2076025 002	1525011-01	Soil	Sample	06/09/2015	06/16/2015
2076025 004	1525011-02	Soil	Sample	06/09/2015	06/16/2015
2076025 006	1525011-03	Soil	Sample	06/09/2015	06/16/2015
2076025 008	1525011-04	Soil	Sample	06/09/2015	06/16/2015
2076025 010	1525011-05	Soil	Sample	06/09/2015	06/16/2015

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	06/24/2015	06/28/2015	B150975	N/A
As(III)	Soil/Sediment	EPA 1632	06/24/2015	06/24/2015	B150974	1500505

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
2076025 002										
1525011-01	%TS	Soil	NA	65.61		0.36	1.20	%	B150975	N/A
1525011-01	As(III)	Soil	dry	15.0		1.96	5.89	mg/kg	B150974	1500505
2076025 004										
1525011-02	%TS	Soil	NA	65.34		0.36	1.20	%	B150975	N/A
1525011-02	As(III)	Soil	dry	2.33		0.498	1.49	mg/kg	B150974	1500505
2076025 006										
1525011-03	%TS	Soil	NA	65.93		0.36	1.20	%	B150975	N/A
1525011-03	As(III)	Soil	dry	3.01		0.230	0.691	mg/kg	B150974	1500505
2076025 008										
1525011-04	%TS	Soil	NA	43.73		0.36	1.20	%	B150975	N/A
1525011-04	As(III)	Soil	dry	1.78		0.346	1.04	mg/kg	B150974	1500505
2076025 010										
1525011-05	%TS	Soil	NA	28.38		0.36	1.20	%	B150975	N/A
1525011-05	As(III)	Soil	dry	0.877		0.125	0.376	mg/kg	B150974	1500505

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Accuracy & Precision Summary

Batch: B150974
Lab Matrix: Soil/Sediment
Method: EPA 1632

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150974-BS1	**Laboratory Fortified Blank (1523014)**						
	As(III)		1.204	1.171	mg/kg	97% 50-150	
B150974-BS2	**Laboratory Fortified Blank (1523029)**						
	As(III)		1.204	1.128	mg/kg	94% 50-150	
B150974-SRM1	**Certified Reference Material (1505010, PACS-3)**						
	As(III)		4.752	5.887	mg/kg	124% 50-150	
B150974-DUP1	**Duplicate (1525011-01)**						
	As(III)	14.95		13.00	mg/kg		14% 35
B150974-PS1	**Post Spike (1525011-01)**						
	As(III)	14.95	24.62	39.43	mg/kg	99% 65-135	

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Accuracy & Precision Summary

Batch: B150975
Lab Matrix: Soil/Sediment
Method: SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150975-DUP1	Duplicate (1525011-01)						
	%TS	65.61		65.78	%		0.3% 15

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Method Blanks & Reporting Limits

Batch: B150974
Matrix: Soil/Sediment
Method: EPA 1632
Analyte: As(III)

Sample	Result	Units
B150974-BLK1	0.051	mg/kg wet
B150974-BLK2	0.046	mg/kg wet
B150974-BLK3	0.047	mg/kg wet
B150974-BLK4	0.049	mg/kg wet

Average: 0.048 **Standard Deviation:** 0.002 **MDL:** 0.040
Limit: 0.080 **Limit:** 0.027 **MRL:** 0.120

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Method Blanks & Reporting Limits

Batch: B150975
Matrix: Soil/Sediment
Method: SM 2540G
Analyte: %TS

Sample	Result	Units
B150975-BLK1	0.00	%
B150975-BLK2	0.00	%
Average:	0.00	
Limit:	1.20	

MDL: 0.36
MRL: 1.20

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Sample Containers

Lab ID: 1525011-01
Sample: 2076025 002

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-02
Sample: 2076025 004

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-03
Sample: 2076025 006

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-04
Sample: 2076025 008

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Lab ID: 1525011-05
Sample: 2076025 010

Report Matrix: Soil
Sample Type: Sample

Collected: 06/09/2015
Received: 06/16/2015

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Client-Provided	8oz jar	not provided	none	none		cooler

Shipping Containers

cooler
Received: June 16, 2015 9:05
Tracking No: 773836255661 via FedEx
Coolant Type: Ice
Temperature: 0.1 °C

Description: cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Analytical Laboratory Services, Inc.
Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: BRL Report 1526014 — 1 of 1
ALSI Quote #:

Client Name: ALS Environmental
Address: 34 Dogwood Lane, Middletown, PA 17057
Contact: Vicki Forney
Phone#: (717) 944-5541
Project Name/#:
Bill To: ALS Environmental
TAT: [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALSI approval and surcharges.
Date Required: _____ Approved By: _____
Email? [X] -Y: almdt.subcontract@ALSGlobal.com
Fax? [ ] -Y: No.:

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Trivalent Arsenic
Container Type					C
Container Size					4 oz
Preservative					None
2076025 002	6/9/15	1115	G	SO	1
2076025 004	6/9/15	0915	G	SO	1
2076025 006	6/9/15	1300	G	SO	1
2076025 008	6/9/15	1005	G	SO	1
2076025 010	6/9/15	1015	G	SO	1

Enter Number of Containers Per Sample or Field Results Below.

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm. ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier Tracking #: _____

Sample/COC Comments
Subcontract: Brooks Rand Labs
3958 6th Avenue NW
Seattle, WA 98107

ALSI Field Services: [ ] Pickup [ ] Labor [ ] Composite Sampling [ ] Rental Equipment [ ] Other: _____

Project Comments:

LOGGED BY (signature): Date: Time:
REVIEWED BY (signature): Date: Time:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	6/16/15	1:00pm	2 BRL	6/16/15	6:00
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ]
State Samples Collected In: [ ] NY [ ] NJ [ ] PA [ ] NC [ ] other
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDs: Format Type-

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

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Rev 5/05

ALS

6327

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 27, 2015

Ms. Susan Mackert
Department of Environmental Quality
Northern Regional Office
13901 Crown Court,
Woodbridge, VA 22193

Re: Dominion - Possum Point Power Station – VA0002071
Placement of Ash Notification

Dear Ms. Mackert:

The following information is provided in accordance with Possum Point Power Station's VPDES permit VA0002071 Part I, Condition F.11. ~~Within 30 days of this notice,~~ Dominion is providing this notice that we intend~~s~~ to begin mechanically dredging material from Ash Pond E to Ash Pond D. ~~Dredging operations~~ Placement of the material in Pond D will ~~begin as soon as authorization is obtained and will~~ be completed prior to October 16, 2015. Dominion anticipates that approximately 870,000 to 1,044,000 cubic yards of ash and soil materials will be dredged from Pond E to Pond D.

Sampling and analysis of~~n~~ the material in Pond E was conducted in accordance with Part I, Condition F.11(c). A sampling plan describing sample collection methods and analytical results using the forms provided in Attachment B of the permit are provided as attachments to this letter. All measured analytical results were below threshold levels listed in the permit.

Dominion would like to begin dredging operations as soon as possible in order to support the project schedule. To that end, we are requesting that DEQ waive the requirement to provide notice at least 30 days prior to the placement of material in Pond D and grant authorization to proceed upon review of this submission.

If you have any questions and/or comments regarding this information please contact Ken Roller, of Dominion Electric Environmental Services, at (804) 273-3494.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,

accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Cathy C. Taylor
Director, Electric Environmental Services

Attachments

August X, 2015

Ms. Susan Mackert
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

RE: Possum Point Power Station VPDES Permit No. VA0002071: Modification Request Letter

Dear Ms. Mackert:

As you know from our recent meetings, we are actively pursuing closure of the ash ponds at the Possum Point Power Station pursuant to EPA's final coal combustion residuals (CCR) rule. Some of the preparatory work for closure is already authorized and regulated under the Station's existing VPDES Permit No. VA0002071. Other preparatory work is subject to DEQ's concurrence as part of Dominion's Notice of Planned Changes, which was submitted in July 2015. For the active construction and post-construction phase of the closure project, Dominion will also need modifications to the VPDES permit. This letter, application, and supporting documents comprise a request that the VPDES Permit be modified as described below. The requested modifications will enable Dominion to properly handle the various waste streams associated with construction activities, as well as final conditions post-closure.

1. Present Situation
   - Ash Pond E is presently being decommissioned and the impoundment will be retired. Ash material in Pond E is being relocated to Ash Pond D. Ash Dewatering and Contact Waters are presently being directed to Ash Pond D for storage. Ash Pond E will be replaced with a treatment system, as required.
   - Ash Ponds A, B, and C are presently being decommissioned and the impoundment will be retired. Ash material in Ponds A, B and C is being relocated to Ash Pond D. Ash Dewatering and Contact Waters are presently being directed to Ash Pond D for storage.
   - Ash Pond D will be decommissioned and the impoundment retired. The ash material will be capped. Pond D Comingled Water, or surface waters in Ash Pond D, will need to be decanted, treated, as required, and discharged. After decanting, Ash Dewatering and Contact Waters at Ash Pond D will need to be treated and discharged.
2. Proposed Modifications Being Sought
   - Interim Configuration:
     - Oil Water Treatment Basin (Internal Outfall 502) will be rerouted to the station's existing Low Volume Settling Ponds (Outfall 004).
     - Ash Pond E will be replaced with an interim treatment system suitable to protect water quality and achieve any necessary water quality-based limits established by DEQ. However, should a Permit Modification be delayed beyond January 1, 2016, reclaimed Pond E may be used to store waters (after required treatment).
     - Outfall 501 water will be directed to Ash Pond D (or Pond E should a Permit Modification be delayed beyond January 1, 2015) for storage and treated to protect water quality and achieve any necessary water quality-based limits established by DEQ before being discharged to Outfall 005 (or ALTERNATE discharge to Outfall 001/002 and/or Outfall 004).
     - Pond D Comingled Water will be decanted, directed to an interim treatment system suitable to protect water quality and achieve any necessary water quality-based limits established by DEQ, and discharged to Outfall 005 (with ALTERNATE discharge to Outfall 001/002 and/or Outfall 004). However, should a Permit Modification be delayed

beyond January 1, 2016, Pond D Comingled Water will first be treated with a filtering system to remove coal combustion residuals (CCR) (ash) solids and held in reclaimed Pond E.

- Ash Dewatering and Contact Waters from the closure of Ash Pond A, B, C, and D will be directed to an interim treatment system and then discharged to Outfall 005 (with ALTERNATE discharge to Outfall 001/002 and/or Outfall 004). However, should a Permit Modification be delayed beyond January 1, 2016, Ash Dewatering and Contact Waters will first be treated with a filtering system to remove coal combustion residuals (CCR) (ash) solids and held in reclaimed Pond E.

- Final Configuration:
  - Oil Water Treatment Basin (Internal Outfall 502) will be rerouted to the station's existing Low Volume Settling Ponds (Outfall 004).
  - A new treatment system that replaces closed Pond E, as required, will accept the Metals Cleaning Waste Treatment Facility (Internal Outfall 501) effluent, as well as Pond D Underdrainage from the closed/capped Ash Pond D.

3. Reasons for the Modification
   - Ash Ponds A, B, C, and E will be decommissioned and clean-closed in accordance with the final CCR rule.
   - Ash Pond D will be decommissioned and closed-in-place in accordance with the final CCR rule.

The permit fee required for this modification and the original fee form have been submitted to DEQ, Receipts Control, P.O. Box 1104, Richmond, VA 23218.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Cathy C. Taylor
Director, Electric Environmental Services

Enclosures:

1. Public Notice Billing Authorization Form.
2. Copy of Permit Application Fee Form.
3. Copy of fee check.
4. Form 1 General.
5. Topographic Map.
6. Water Flow Balance Line Diagram –Interim Configuration.
7. Water Flow Balance Line Diagram – Final Configuration.
8. Form 2C NPDES, Page 1 – Interim Configuration.
9. Form 2C NPDES, Page 1 – Final Configuration.
10. Form 2C NPDES, Page 2 – Interim Configuration.
11. Form 2C NPDES, Page 2 – Final Configuration.
12. Form 2C NPDES, Pages 3 & 4.
13. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, Interim & Final Configuration.
14. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Interim Configuration: Pond D Comingled Waters.

15. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Interim Configuration: Ash Dewatering and Contact Waters.
16. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Final Configuration.
17. Form 2C NPDES, Pages V-1 to V-9 – Outfall 501, Interim & Final Configuration.
18. Form 2C NPDES, Pages V-1 to V-9 – Outfall 502, Interim & Final Configuration.
19. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, ALTERNATE Interim Configuration: Pond D Comingled Water.
20. Form 2C NPDES, Pages V-1 to V-9 – Outfall 001/002, ALTERNATE Interim Configuration: Pond D Comingled Water.
21. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, ALTERNATE Interim Configuration: Ash Dewatering and Contact Waters.
22. Form 2C NPDES, Pages V-1 to V-9 – Outfall 001/002, ALTERNATE Interim Configuration: Ash Dewatering and Contact Waters.
23. VPDES Permit Modification Concept Report.

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

August 18, 2015

Ms. Susan Mackert
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

RE: Possum Point Power Station VPDES Permit No. VA0002071: Modification Request Letter

Dear Ms. Mackert:

As you know from our recent meetings, we are actively pursuing closure of the ash ponds at the Possum Point Power Station pursuant to EPA's final coal combustion residuals (CCR) rule. Some of the preparatory work for closure is already authorized and regulated under the Station's existing VPDES Permit No. VA0002071. Other preparatory work is subject to DEQ's concurrence as part of Dominion's Notice of Planned Changes, which was submitted in July 2015. For the active construction and post-construction phase of the closure project, Dominion will also need modifications to the VPDES permit. This letter, application, and supporting documents comprise a request that the VPDES Permit be modified as described below. The requested modifications will enable Dominion to properly handle the various waste streams associated with construction activities, as well as final conditions post-closure.

1. Present Situation
   - Ash Pond E is presently being decommissioned and the impoundment will be retired. Ash material in Pond E is being relocated to Ash Pond D. Ash Dewatering and Contact Waters are presently being directed to Ash Pond D for storage. Ash Pond E will be replaced with a treatment system, as required.
   - Ash Ponds A, B, and C are presently being decommissioned and the impoundment will be retired. Ash material in Ponds A, B and C is being relocated to Ash Pond D. Ash Dewatering and Contact Waters are presently being directed to Ash Pond D for storage.
   - Ash Pond D will be decommissioned and the impoundment retired. The ash material will be capped. Pond D Comingled Water, or surface waters in Ash Pond D, will need to be decanted, treated, as required, and discharged. After decanting, Ash Dewatering and Contact Waters at Ash Pond D will need to be treated and discharged.
2. Proposed Modifications Being Sought
   - Interim Configuration:
     - Oil Water Treatment Basin (Internal Outfall 502) will be rerouted to the station's existing Low Volume Settling Ponds (Outfall 004).
     - Ash Pond E will be replaced with an interim treatment system suitable to protect water quality and achieve any necessary water quality-based limits established by DEQ. However, should a Permit Modification be delayed beyond January 1, 2016, reclaimed Pond E may be used to store waters (after required treatment).
     - Outfall 501 water will be directed to Ash Pond D (or Pond E should a Permit Modification be delayed beyond January 1, 2015) for storage and treated to protect water quality and achieve any necessary water quality-based limits established by DEQ before being discharged to Outfall 005 (or ALTERNATE discharge to Outfall 001/002 and/or Outfall 004).

- Pond D Comingled Water will be decanted, directed to an interim treatment system suitable to protect water quality and achieve any necessary water quality-based limits established by DEQ, and discharged to Outfall 005 (with ALTERNATE discharge to Outfall 001/002 and/or Outfall 004). However, should a Permit Modification be delayed beyond January 1, 2016, Pond D Comingled Water will first be treated with a filtering system to remove coal combustion residuals (CCR) (ash) solids and held in reclaimed Pond E.
- Ash Dewatering and Contact Waters from the closure of Ash Pond A, B, C, and D will be directed to an interim treatment system and then discharged to Outfall 005 (with ALTERNATE discharge to Outfall 001/002 and/or Outfall 004). However, should a Permit Modification be delayed beyond January 1, 2016, Ash Dewatering and Contact Waters will first be treated with a filtering system to remove coal combustion residuals (CCR) (ash) solids and held in reclaimed Pond E.

- Final Configuration:
  - Oil Water Treatment Basin (Internal Outfall 502) will be rerouted to the station's existing Low Volume Settling Ponds (Outfall 004).
  - A new treatment system that replaces closed Pond E, as required, will accept the Metals Cleaning Waste Treatment Facility (Internal Outfall 501) effluent, as well as Pond D Underdrainage from the closed/capped Ash Pond D.

3. Reasons for the Modification
   - Ash Ponds A, B, C, and E will be decommissioned and clean-closed in accordance with the final CCR rule.
   - Ash Pond D will be decommissioned and closed-in-place in accordance with the final CCR rule.

The permit fee required for this modification and the original fee form as well as the authorization to public notice the draft permit were submitted to DEQ, Receipts Control, P.O. Box 1104, Richmond, VA 23218, in June 2014 with the original request for modification of the permit.

Sincerely,

Cathy C. Taylor
Director, Electric Environmental Services

Enclosures:

1. Form 1 General.
2. Topographic Map.
3. Water Flow Balance Line Diagram –Interim Configuration.
4. Water Flow Balance Line Diagram – Final Configuration.
5. Form 2C NPDES, Page 1 – Interim Configuration.
6. Form 2C NPDES, Page 1 – Final Configuration.
7. Form 2C NPDES, Page 2 – Interim Configuration.
8. Form 2C NPDES, Page 2 – Final Configuration.
9. Form 2C NPDES, Pages 3 & 4.
10. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, Interim & Final Configuration.
11. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Interim Configuration: Pond D Comingled Waters.
12. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Interim Configuration: Ash Dewatering and Contact Waters.
13. Form 2C NPDES, Pages V-1 to V-9 – Outfall 005, Final Configuration.
14. Form 2C NPDES, Pages V-1 to V-9 – Outfall 501, Interim & Final Configuration.

15. Form 2C NPDES, Pages V-1 to V-9 – Outfall 502, Interim & Final Configuration.
16. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, ALTERNATE Interim Configuration: Pond D Comingled Water.
17. Form 2C NPDES, Pages V-1 to V-9 – Outfall 001/002, ALTERNATE Interim Configuration: Pond D Comingled Water.
18. Form 2C NPDES, Pages V-1 to V-9 – Outfall 004, ALTERNATE Interim Configuration: Ash Dewatering and Contact Waters.
19. Form 2C NPDES, Pages V-1 to V-9 – Outfall 001/002, ALTERNATE Interim Configuration: Ash Dewatering and Contact Waters.
20. VPDES Permit Modification Concept Report.

Possum Point Notes

- Close all three ponds in three years. Our plans are fully compliant with CCR rule
  - "Clean-close" Pond E by mechanically dredging ash to Pond D. Not required under CCR rule to remove ash from Pond E and we could close in place; however removal of ash to Pond D have some advantages:
    - Moves ash from unlined pond to a pond designed to be the long-term repository for the ash.
    - Provides fill material for closure of Pond D
  - Cap and close Pond D in place
  - Cap and close Pond ABC in place
- Close ponds under VPDES permit (use CEC as model).
  - Final closure plans would be consistent with solid waste requirements
    - Cap requirements, post closure care, groundwater monitoring
    - VPDES permit would be modified to incorporate closure plan requirements
- Additional identified changes to VPDES permit
  - Need to modify permit to recognize industrial storm water nature of Pond C. Necessary to proceed with closure of Pond ABC
  - Need to recognize interim and final discharges
    - Ash dewatering wastewater
    - LVW
    - Remove Pond C discharge
    - Uncontaminated storm water nature of runoff from closed ponds
- To achieve our closure goals it is critical that dredging from Pond E to Pond D begin as soon as possible.
  - Permit condition I.F.11
    - Permit condition was created specifically to provide method for station to place dredged material into Pond D. Was not created with intention of requiring testing of the material that the pond was designed to receive.
    - Pond D was created specifically to receive ash from Pond E
    - Ash from Pond E has been periodically dredged and placed into Pond D over the years.
    - There has been no change in the material in Pond E since 2004 dredging.
    - Condition 11.c.4) says that testing is to be performed prior to initial placement and if station processes have not materially changed, further testing is not required.
      - TCLP testing performed on Pond E ash in 2002 prior to dredging
      - Ash was dredged from Pond E to D in 2004 after station stopped burning coal.
      - Condition 5) allows DEQ to waive sampling requirements for any placement activity.
- Critical Paths:
  - Begin dredging of Pond E to Pond D (ASAP)
  - Modify permit to recognize storm water nature of Pond C discharge
  - Determine permitting path forward for handling of the following:
    - Ash dewatering wastewater
    - LVW interim and final configuration

Draft Water Treatment System Specifications And Operation
Possum Point Power Station Ponds A, B, C, D and E

Conceptual Plan

The objective is to treat water as necessary from Ponds A, B, C, D and E in order to meet VDEQ discharge requirements as proposed in the draft discharge permit (see limits for Outfalls 005 and 503 attached). The water treatment system proposed corresponds to the treatment system outlined in red on the attached figure, which was included in Dominion's August 18, 2015 permit modification application.

The method selected to meet the required criteria is filtration with supplemental absorption. Previous bench scale testing indicated a three stage filtration process will remove all suspended solids and reduce metals to concentrations below the proposed discharge limits. An additional absorption unit has also been included in the design to remove dissolved copper and selenium to ensure these metals meet the discharge limitations.

The operational criteria includes system maximum flow of 2,000 gpm and weekly laboratory analytical for all discharge parameters.

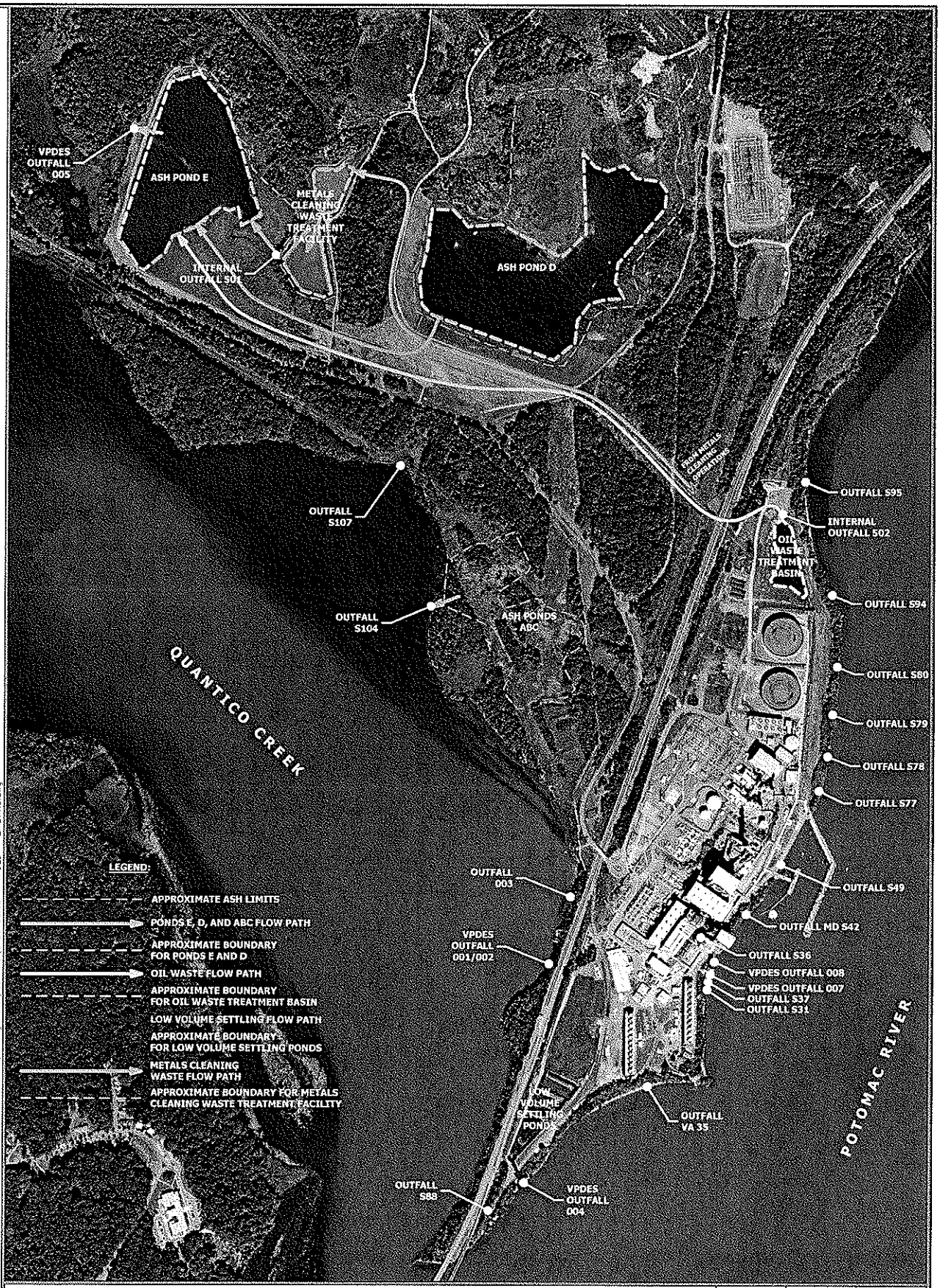
System Components

Bag filter housings – 220 gpm at pressure up to 150 psi
Steel bag filter holders
Bag filters – 10, 25, 75, & 100 micron
Cartridge filter housings – 200 gpm at 150 psi
Cartridge filters – 0.45 micron
Absorption tank – zeolite type media
Frac Tanks – baffled with 18,000 gallon capacity, heaters installed
1,000 gpm diesel pump – with high and low float switches
Filter Trailer – six filter housings, 1,320 gpm capacity, heated and lights
Six-inch hoses and connections
Hach Portable TSS/Turbidity meter

System Flow

The filtration system receives water from the existing dewatering sump directly into an 18,000 gallon frac tank. The water is then pumped from the influent frac through the first stage filtration housing. The water is then pumped into the secondary filtration trailer and then into the third stage cartridge filters and then into the discharge frac.[KR1]

TSS/Turbidity measurements are made hourly from the influent frac and from a sampling port immediately after the third stage filtration and before the effluent frac. Weekly discharge samples are collected from the same sample port.



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			SHEET NO.:	1 OF 1	
			GAI FILE NUMBER:		
			C150132.00 - VPDES - EXISTING		
			GAI DRAWING NUMBER:		
			12x18 Existing		

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PLOTTED ON: 4/6/2015 3:35:02 PM PLOTTED BY: Rich Lenhart, Jr. PLOT FILE: GAI.stb

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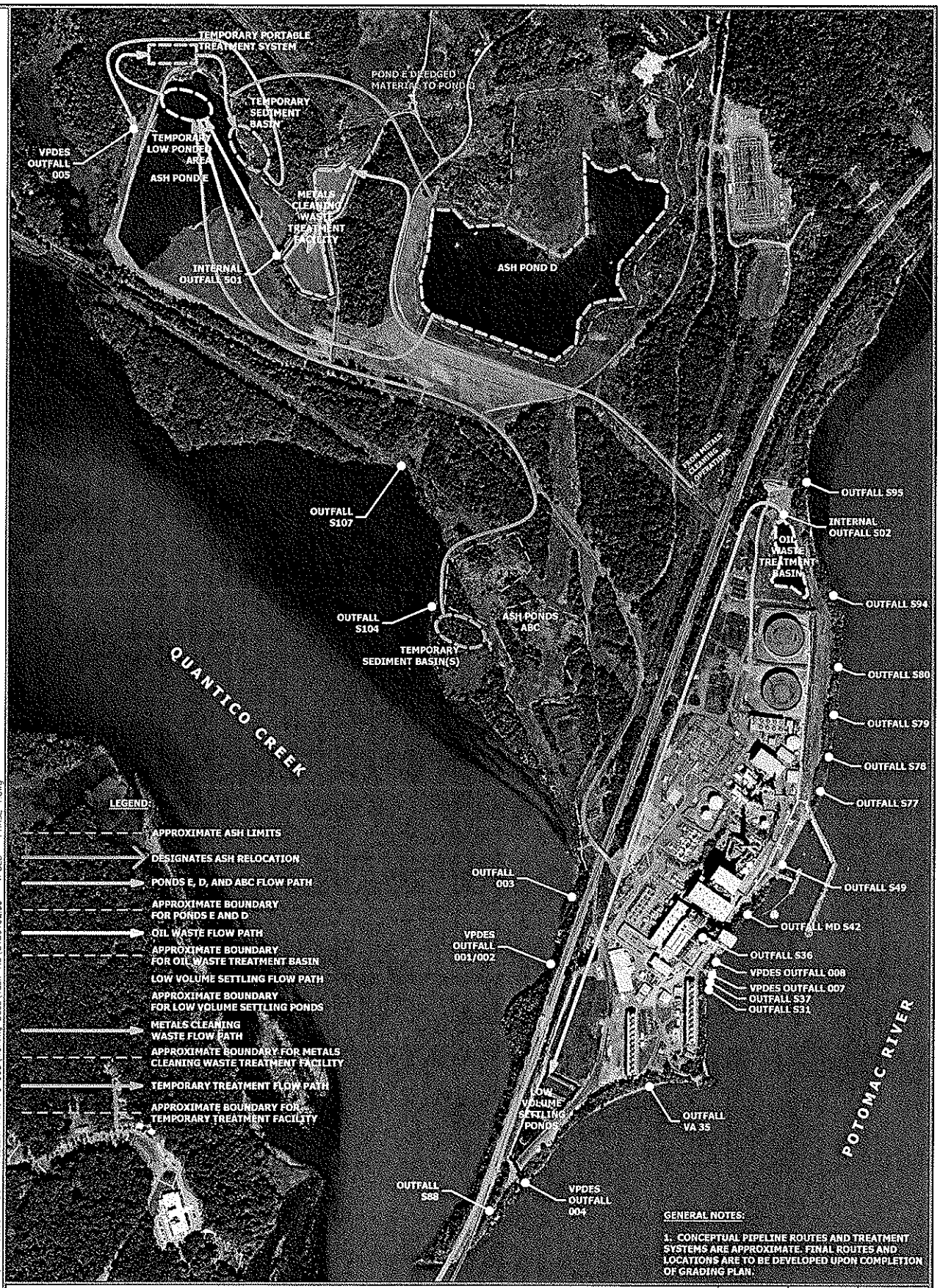

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PHASE 1 - DEWATER, DREDGE, CLEAR, GRADE, & CLOSE POND E AND PRELIMINARY DEWATER, GRADE PONDS D & ABC			DRAWN BY: DEBARJD	CHECKED BY: MONNEJD	APPROVED BY: QUINLSC
PROJECT		CLIENT	DWG TYPE:	SCALE: 1" = 600'	ISSUE DATE: 04/02/2015
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			GAI FILE NUMBER: C150132.00 - VPDES - PHASE 1		
			GAI DRAWING NUMBER: 12x18 Dredge & Close E		

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PLOTTED ON: 4/3/2015 3:09:50 PM PLOTTED BY: John DeBarbieri PLOT FILE: GAI.stb

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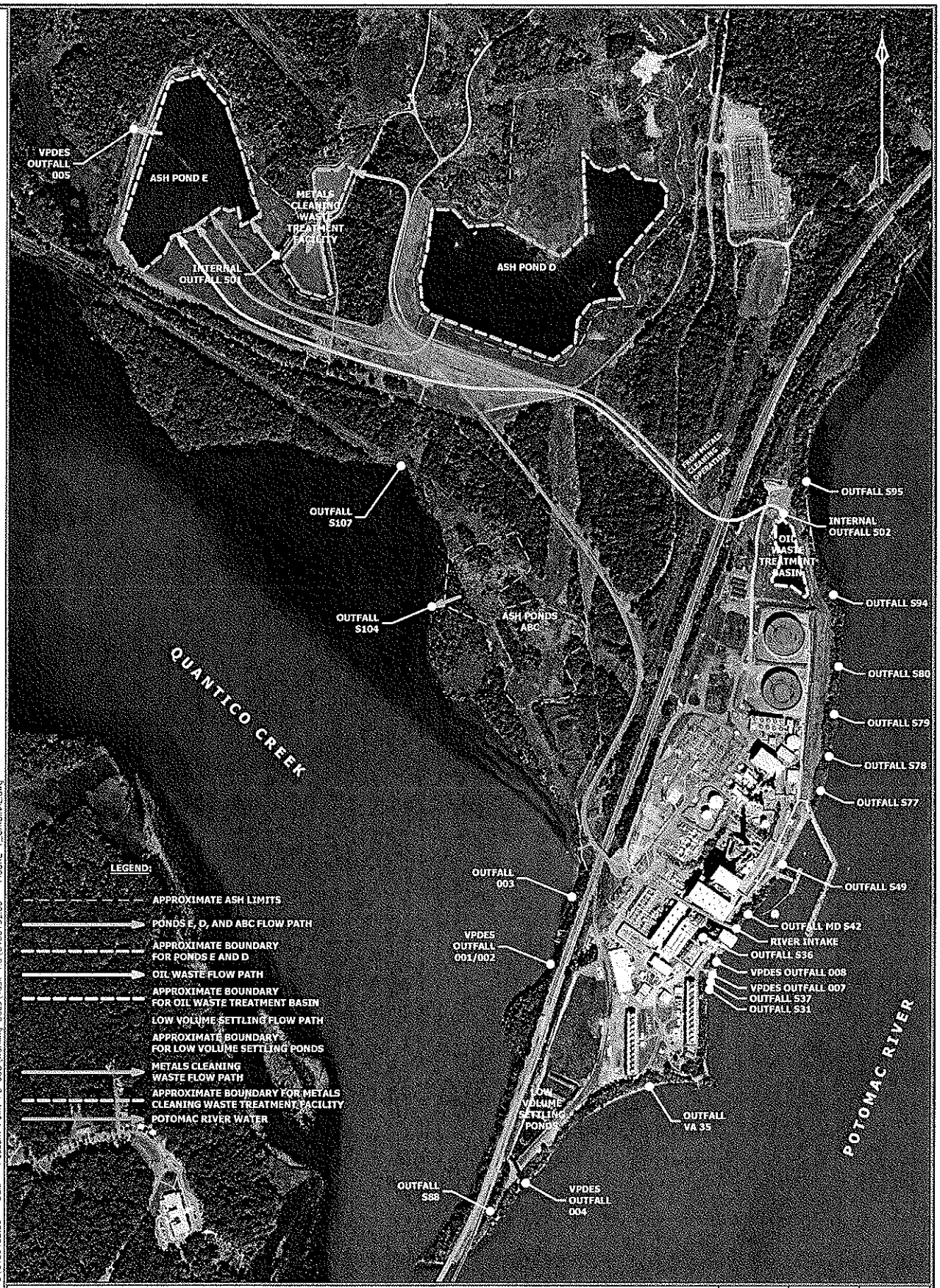

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FIGURE 1 - ORIGINAL, PERMITTED CONFIGURATION			DEBARJD	JOHNSCL	QUINLSC
PROJECT		CLIENT	DWG TYPE:	SCALE:	ISSUE DATE:
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			SHEET NO.:	1 OF 5	
			GAI FILE NUMBER:		
			C150132.00 - FIGURE 1_ORIGINAL		
			GAI DRAWING NUMBER:		
			12x18 FIG 1 - ORIGINAL		

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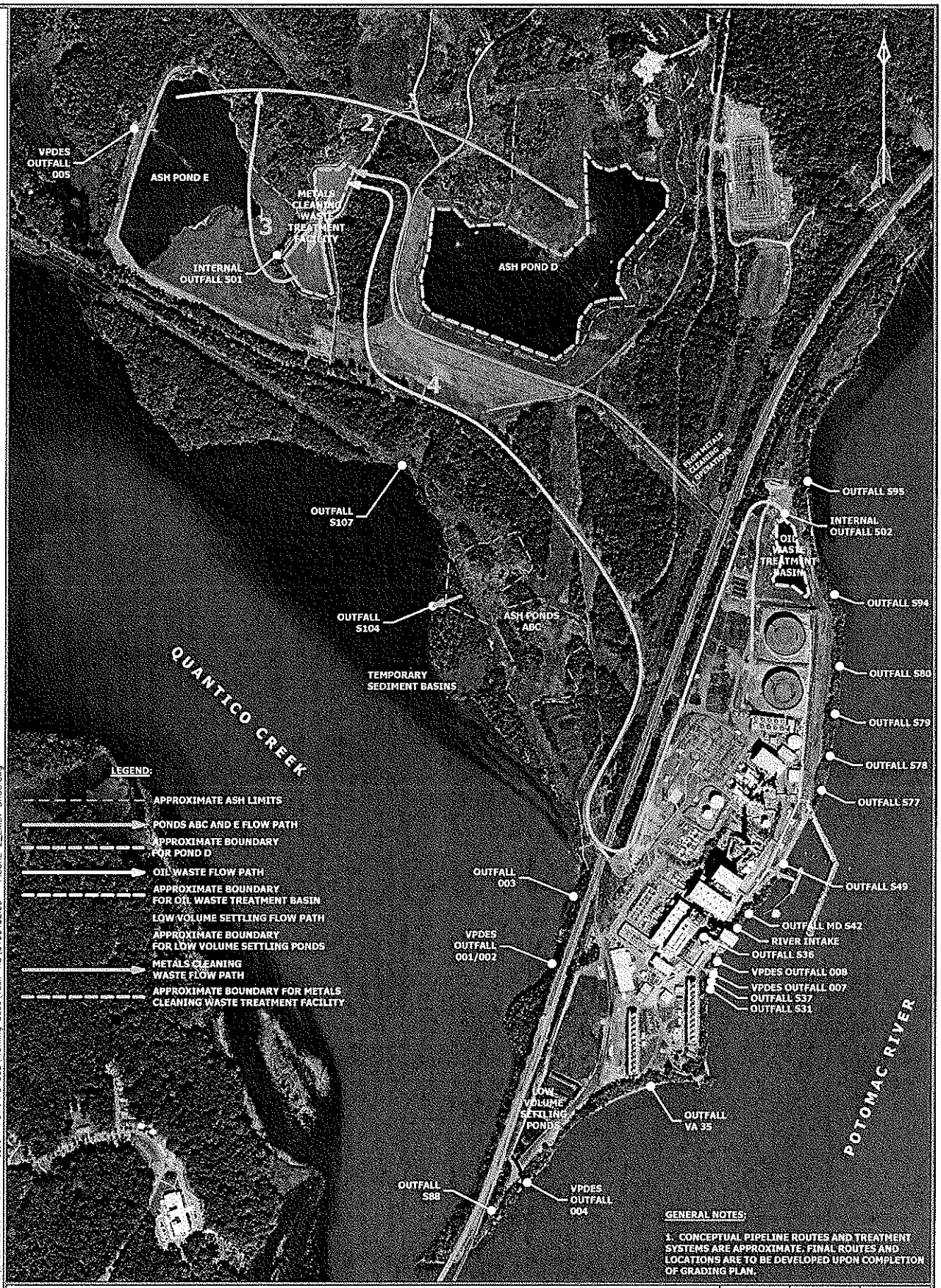

DRAWING TITLE

FIGURE 2 - EXISTING CONFIGURATION (DUE TO POND E DREDGE)

PROJECT		CLIENT
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DRAWN BY:	CHECKED BY:	APPROVED BY:
DEBARJD	QUINLSC	QUINLSC
DWG TYPE:	SCALE:	ISSUE DATE:
	1" = 600'	05/30/2015
SHEET NO.:	2 OF 4	
GAI FILE NUMBER:		
C150132.00 - FIGURE 2_EXIST DRDG		
GAI DRAWING NUMBER:		
12X18 FIG 2 EXIST DRDG		

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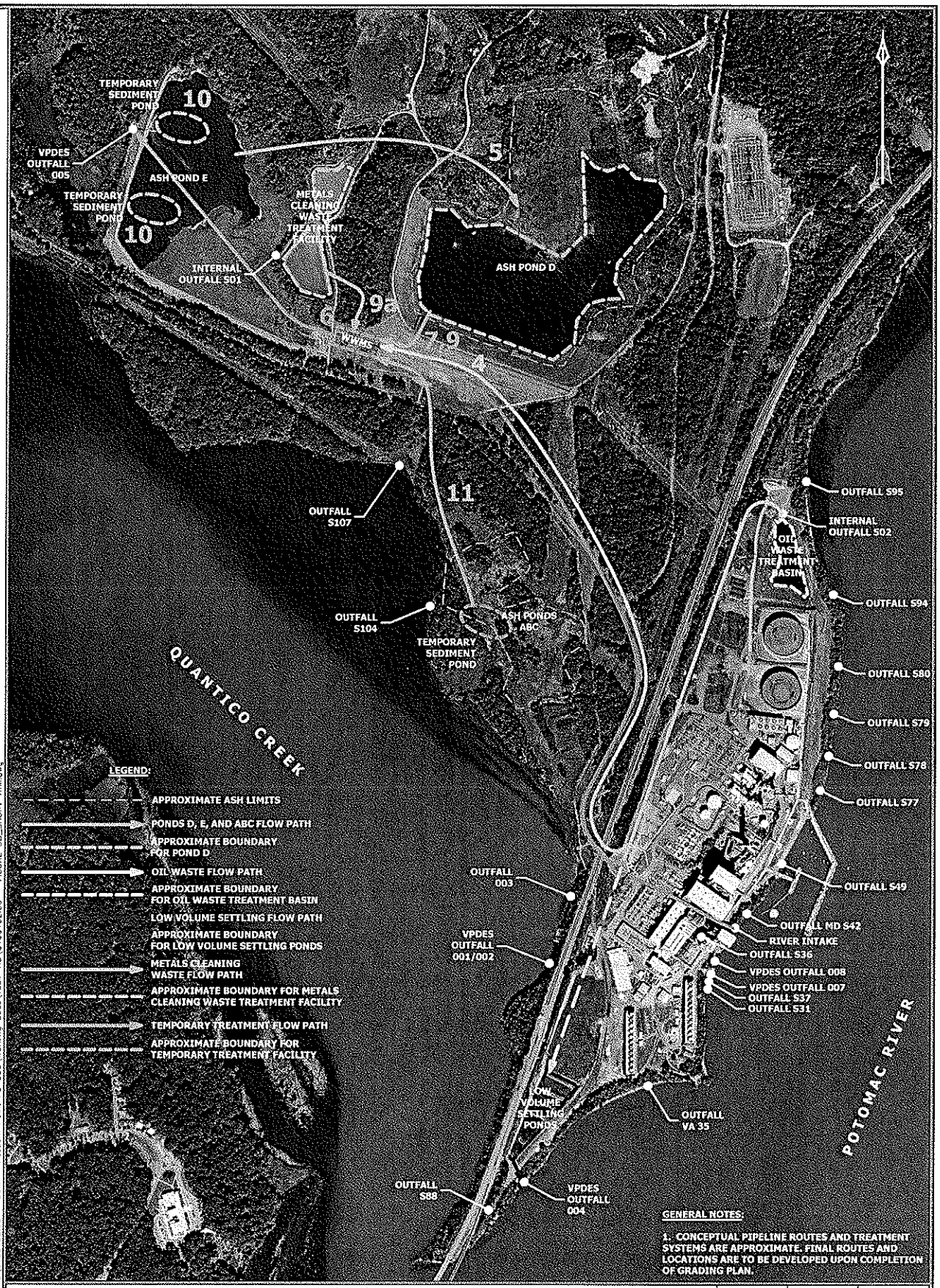
GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS CCB\Working Docs\Task 1.3\C150132.00 - FIGURE 2_EXIST DRDG.dwg



DRAWING TITLE

FIGURE 3 - SHORT TERM CONFIGURATIONS WITH WATER TREATMENT

PROJECT		CLIENT
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DRAWN BY:	CHECKED BY:	APPROVED BY:
DEBARJD	QUINLSC	QUINLSC
DWG TYPE:	SCALE:	ISSUE DATE:
	1" = 600'	05/30/2015
SHEET NO.:	3 OF 4	

GAI FILE NUMBER: C150132.00 - FIGURE 3B_SHORT TRM

GAI DRAWING NUMBER: 12x18 FIGURE 3B SHORT TERM

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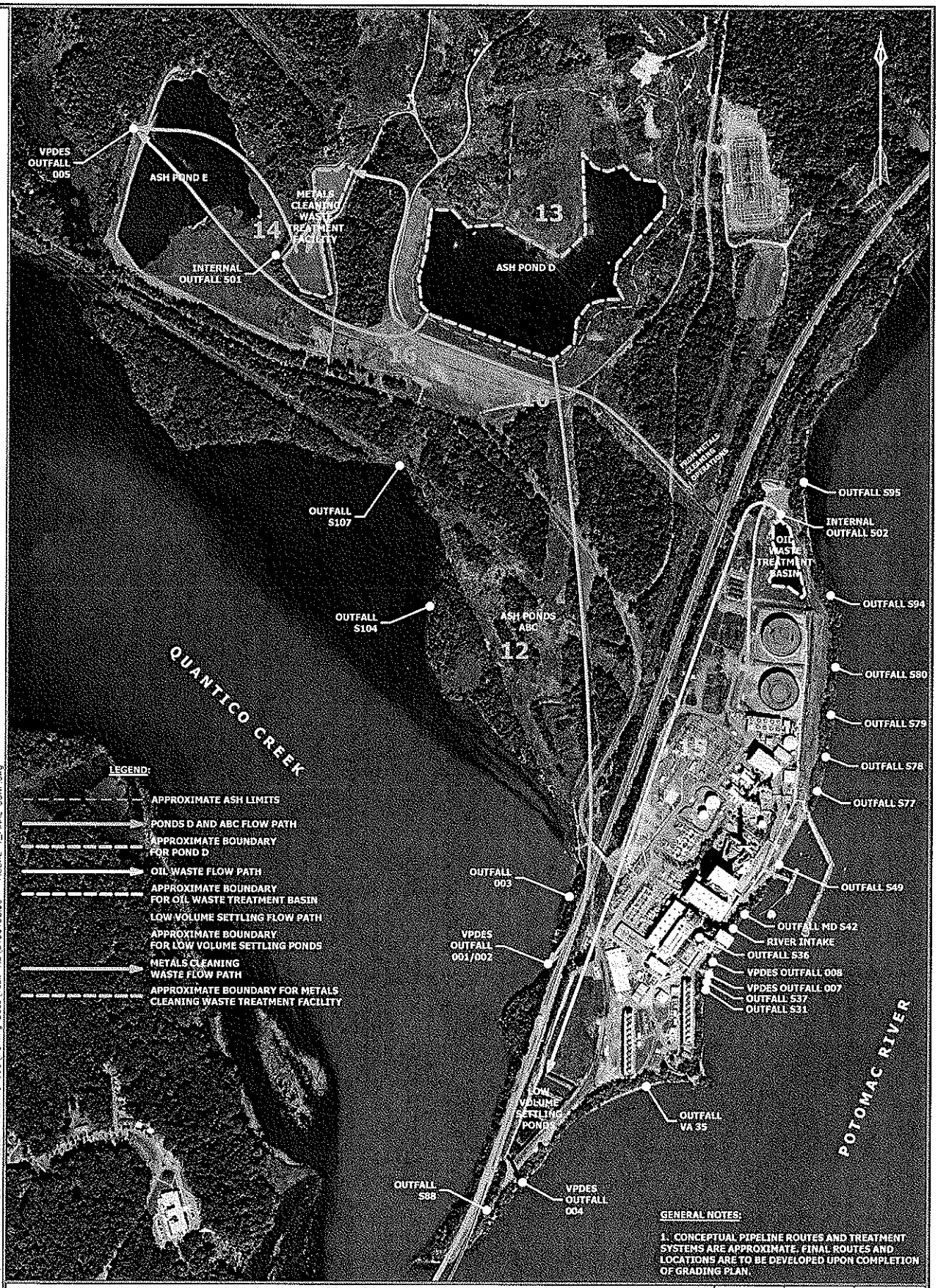

DRAWING TITLE

FIGURE 4 - FINAL DISCHARGE CONFIGURATION

PROJECT		CLIENT
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DEBARJD	JOHNSCL	QUINLSC
DWG TYPE:	SCALE:	ISSUE DATE:
	1" = 600'	05/29/2015
SHEET NO.:	4 OF 4	
GAI FILE NUMBER:		
C150132.00 - FIGURE 4_FINAL CONF		
GAI DRAWING NUMBER:		
12x18 FIG 4 FINAL CONF		

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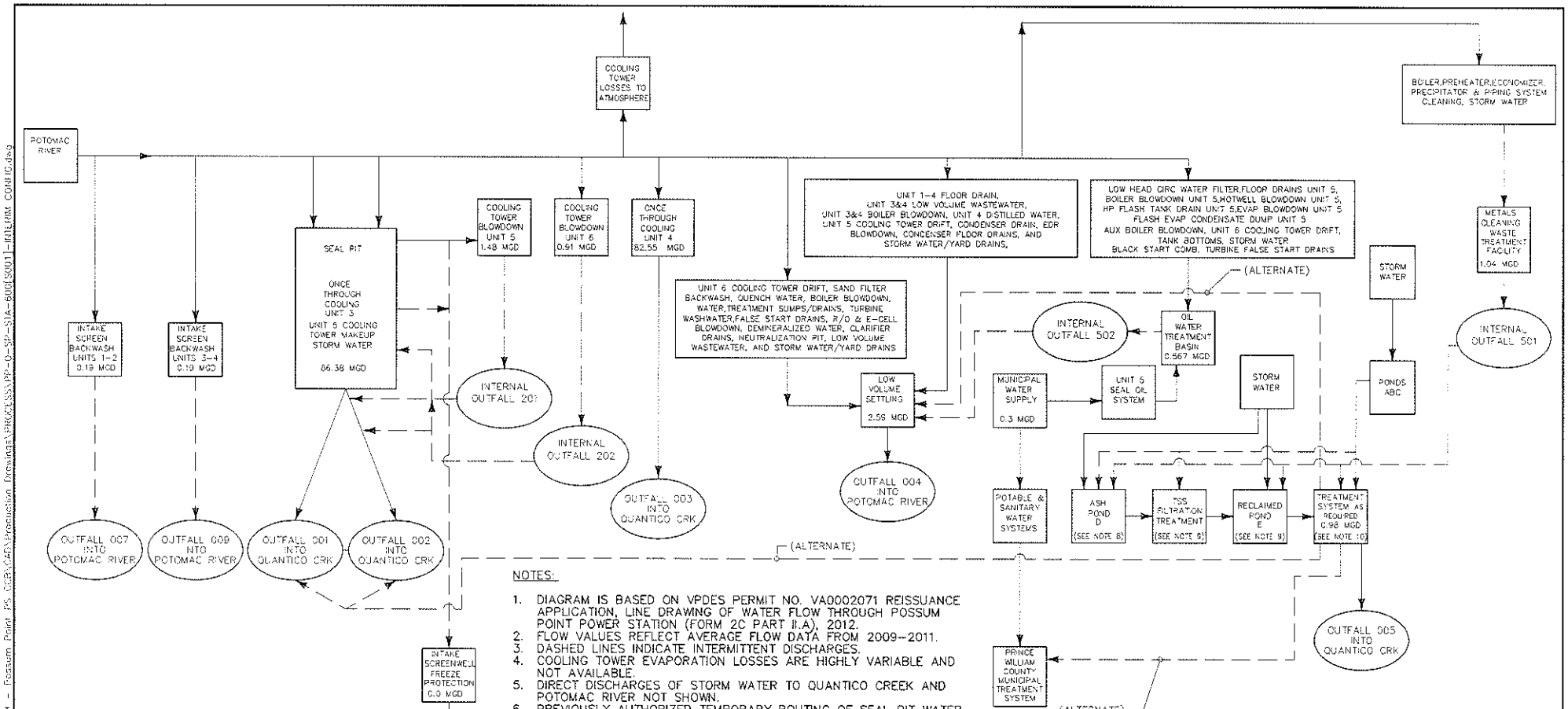
GAI CAD FILE PATH: Z:\Energy\2015\C150132.00 - DOM - Possum Point PS CCB\Working Docs\Task 1.3\C150132.00 - FIGURE 4_FINAL CONF.dwg



NOTES:

1. DIAGRAM IS BASED ON VPDES PERMIT NO. VA0002071 REISSUANCE APPLICATION, LINE DRAWING OF WATER FLOW THROUGH POSSUM POINT POWER STATION (FORM 2C PART II.A), 2012.
2. FLOW VALUES REFLECT AVERAGE FLOW DATA FROM 2009-2011.
3. DASHED LINES INDICATE INTERMITTENT DISCHARGES.
4. COOLING TOWER EVAPORATION LOSSES ARE HIGHLY VARIABLE AND NOT AVAILABLE.
5. DIRECT DISCHARGES OF STORM WATER TO QUANTICO CREEK AND POTOMAC RIVER NOT SHOWN.
6. PREVIOUSLY AUTHORIZED TEMPORARY ROUTING OF SEAL PIT WATER TO ASH POND E FOR FREEZE PROTECTION VIA ASH SLUICE LINE NOT SHOWN.
7. ALTERNATE FLOW PATH FLOWS ARE NOT ADDED TO RECEIVING SYSTEM OR OUTFALL FLOWS.
8. PRIOR TO OCT. 1, 2015, ALL WATERS ARE PLANNED TO BE STORED IN POND D.
9. AFTER OCT. 1, 2015, FILTERED POND D AND OTHER WATERS ARE PLANNED TO BE STORED IN RECLAIMED POND E (UNTIL PERMIT MODIFICATION IS GRANTED).
10. AFTER PERMIT MODIFICATION IS GRANTED, WATERS MAY BE DIRECTLY TREATED, AS REQUIRED, AND DISCHARGED.

INTERIM CONFIGURATION

VIRGINIA POWER
NORTH CAROLINA POWER

FOSSIL & HYDRO ENGINEERING
RICHMOND, VIRGINIA

WATER FLOW BALANCE LINE DIAGRAM

POSSUM POINT POWER STATION

CAD FILE: DGNSPEC FOR FILE VERIFICATION DATE$$$$$$$

DRAWING NO. PP-0-SP-STA-600 REV. 1

APPROVAL OF THE SUPT OF TECH SERVICES IS REQ'D PRIOR TO ISSUE OF THIS DWG

REV	DATE	DRWN	CHKD	APPD	ENGR
2	REVISED FOR VPDES INDUSTRIAL WW PERMIT MODIFICATION				
	8/17/15	LITZIJ	DEBARJD	QUINLSC	
1	REVISED PER ENVIRONMENTAL REDLINE TO INCORPORATE STATION REVIEW.				
	5/31/12	KTC	OD-D	RWM	
0	ORIG. ISSUE FOR 600 SERIES ACAD CONVERSION. REV PER ENVIRONMENTAL REDLINE.				
	3/6/12	KTC	OD-D	RWM	— —

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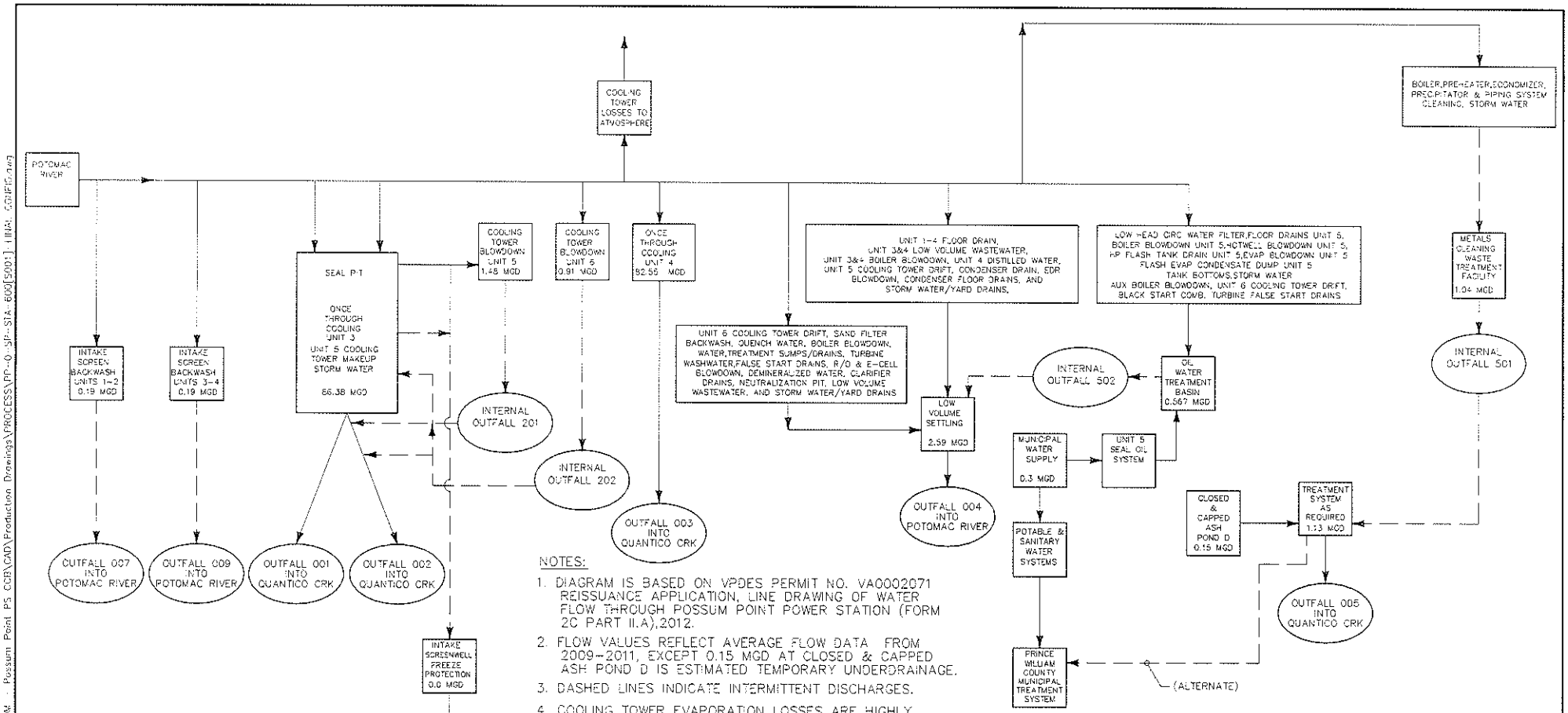

NOTES:

1. DIAGRAM IS BASED ON VPDES PERMIT NO. VA0002071 REISSUANCE APPLICATION, LINE DRAWING OF WATER FLOW THROUGH POSSUM POINT POWER STATION (FORM 2C PART II.A),2012.
2. FLOW VALUES REFLECT AVERAGE FLOW DATA FROM 2009-2011, EXCEPT 0.15 MGD AT CLOSED & CAPPED ASH POND D IS ESTIMATED TEMPORARY UNDERDRAINAGE.
3. DASHED LINES INDICATE INTERMITTENT DISCHARGES.
4. COOLING TOWER EVAPORATION LOSSES ARE HIGHLY VARIABLE AND NOT AVAILABLE.
5. DIRECT DISCHARGES OF STORM WATER TO QUANTICO CREEK AND POTOMAC RIVER NOT SHOWN.
6. PREVIOUSLY AUTHORIZED TEMPORARY ROUTING OF SEAL PIT WATER TO ASH POND E FOR FREEZE PROTECTION VIA ASH SLUICE LINE NOT SHOWN.

FINAL CONFIGURATION

VIRGINIA POWER
NORTH CAROLINA POWER

FOSSIL & HYDRO ENGINEERING
RICHMOND, VIRGINIA

WATER FLOW BALANCE LINE DIAGRAM

POSSUM POINT POWER STATION

CAD FILE: DGNSPEC FOR FILE VERIFICATION DATE$$$$$$

DRAWING NO. PP-0-SP-STA-600 REV. 1

APPROVAL OF THE SUPT OF TECH SERVICES IS REQ'D PRIOR TO ISSUE OF THIS DWG

REV	DATE	DRWN	CHKD	APPD	ENGR	REV	DATE	DRWN	CHKD	APPD	ENGR	REV	DATE	DRWN	CHKD	APPD	ENGR
2	REVISED FOR VPDES INDUSTRIAL WW PERMIT MODIFICATION 8/17/15	LITZL	DEBARJ	QUINLSC		1	REVISED PER ENVIRONMENTAL REDLINE TO INCORPORATE STATION REVIEW. 5/31/12	KTC	OD-D	RWM		0	ORIG. ISSUE FOR 600 SERIES ACAD CONVERSION. REV PER ENVIRONMENTAL REDLINE. 3/6/12	KTC	OD-D	RWM	— —

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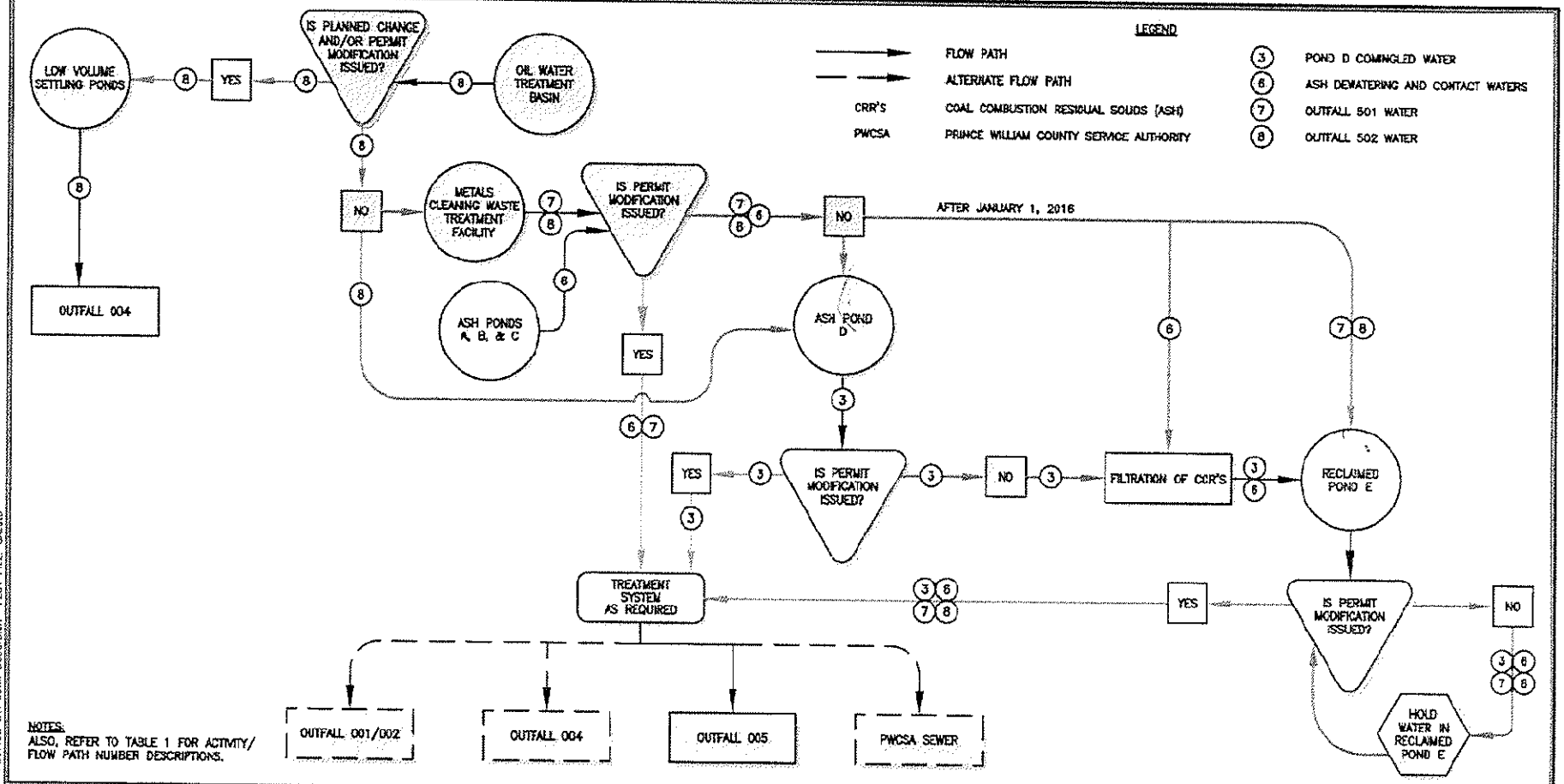

NO.:	DATE:	DWN:	CHK:	APV:	DESCRIPTION:

REVISION RECORD

DRAWING TITLE: INTERIM CONFIGURATION (DURING CONSTRUCTION)

PROJECT: POSSUM POINT POWER STATION, 19000 POSSUM POINT ROAD, DUMFRIES, PRINCE WILLIAM COUNTY, VIRGINIA 22026

gai consultants

CLIENT: DOMINION RESOURCES SERVICE, INC., 5000 DOMINION BOULEVARD, GLEN ALLEN, VIRGINIA 23060

DRAWN BY:	CHECKED BY:	APPROVED BY:
LITZIJ	DEBARJD	QUINLSC
REVISION A/0	SCALE: AS SHOWN	ISSUE DATE: 06/14/2015
	SHEET NO.: 2 OF 3	

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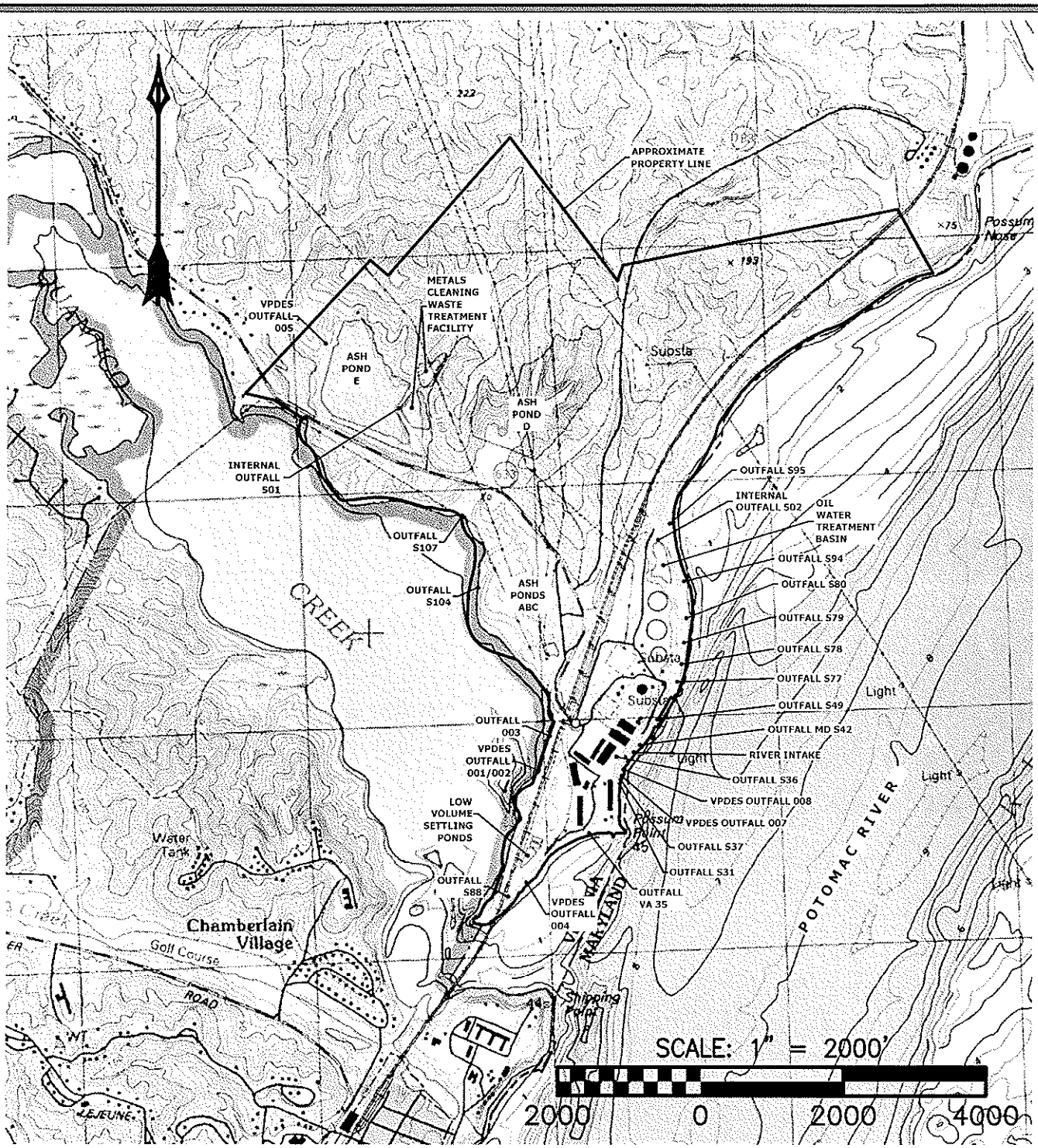

DRAWING TITLE		GAI DRAWING NUMBER:
TOPOGRAPHIC MAP		**C150132-00-047-00-P-A2-001**
PROJECT		GAI FILE NUMBER:
POSSUM POINT POWER STATION 19000 POSSUM POINT ROAD, DUMFRIES, PRINCE WILLIAM COUNTY VA 22026	gai consultants	**C150132-00-047-00-P-A2-001**
		DRAWN BY: **VASKOAJ** / CHECKED BY: **DEBARJD** / APPROVED BY: **QUINLSC**
CLIENT		SHEET NO.: **1 OF 1** / SCALE: **AS SHOWN** / ISSUE DATE: **07/15/2015**
DOMINION RESOURCES SERVICE 5000 DOMINION BOULEVARD, INC. GLEN ALLEN, VIRGINIA 23060		© 2015 GAI Consultants, Inc.

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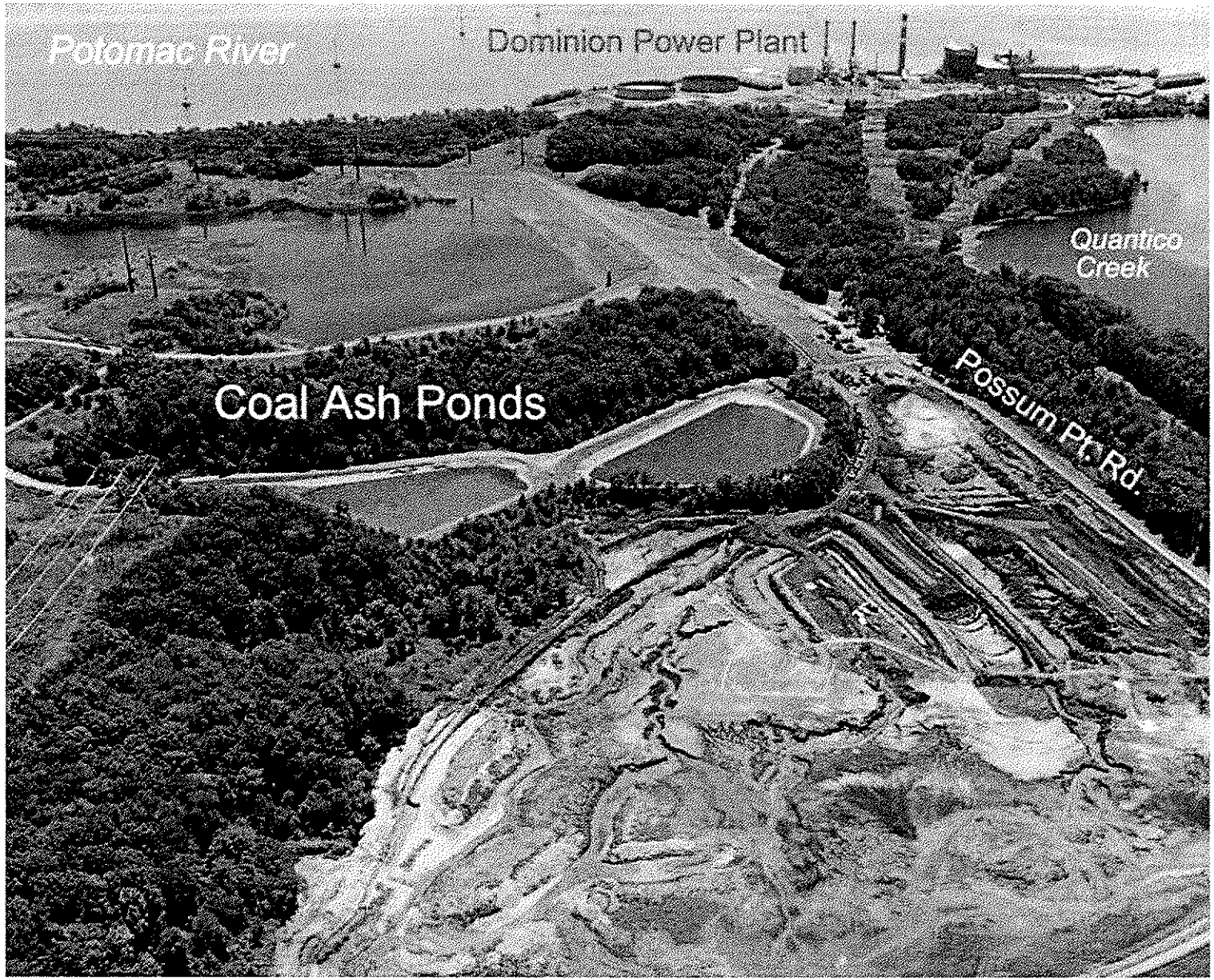
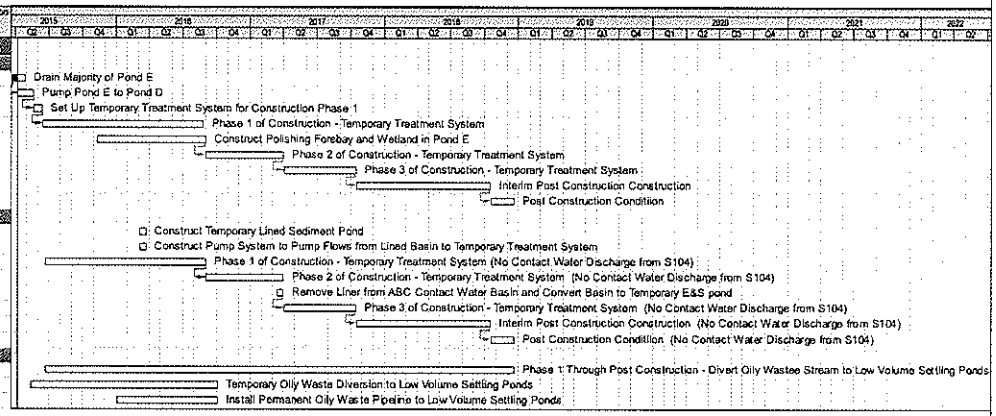

Potomac River
Dominion Power Plant
Quantico Creek
Possum Pt. Rd.
Coal Ash Ponds

Possum Point Outlet Schedule

07-Apr-15

Activity ID	Activity Name	Original Duration	Remaining Duration	Percent Complete	Start	Finish	Predecessors
Possum Point Outlet Schedule		2555	1972		24-Mar-15 A	18-Dec-18	
Outlet #1 (Pond E Outlet)		974	886		24-Mar-15 A	18-Dec-18	
A1000	Drain Majority of Pond E	15	15	25%	24-Mar-15 A	27-Apr-15	
A1005	Pump Pond E to Pond D	32	32	0%	07-Apr-15	20-May-15	A1000
A1010	Set Up Temporary Treatment System for Construction Phase 1	16	16	0%	21-May-15	12-Jun-15	A1005
A1015	Phase 1 of Construction - Temporary Treatment System	312	312	0%	15-Jun-15	24-Aug-16	A1010
A1020	Construct Polishing Forebay and Wetland in Pond E	212	212	0%	10-Nov-15*	31-Aug-16	
A1025	Phase 2 of Construction - Temporary Treatment System	152	152	0%	01-Sep-16	31-Mar-17	A1020
A1030	Phase 3 of Construction - Temporary Treatment System	141	141	0%	03-Apr-17	16-Oct-17	A1025
A1035	Interim Post Construction Construction	261	261	0%	17-Oct-17	16-Oct-18	A1030
A1040	Post Construction Condition	45	45	0%	17-Oct-18	18-Dec-18	A1035
Outlet #2 (Pond ABC Outlet)		1271	1271		22-Jun-15*	18-Dec-18	
A1055	Construct Temporary Lined Sediment Pond	11	11	0%	07-Mar-16*	21-Mar-16	
A1060	Construct Pump System to Pump Flows from Lined Basin to Temporary Treatment System	11	11	0%	07-Mar-16*	21-Mar-16	
A1065	Phase 1 of Construction - Temporary Treatment System (No Contact Water Discharge from S104)	312	312	0%	22-Jun-15*	31-Aug-16	
A1070	Phase 2 of Construction - Temporary Treatment System (No Contact Water Discharge from S104)	152	152	0%	01-Sep-16	31-Mar-17	A1065
A1072	Remove Liner from ABC Contact Water Basin and Convert Basin to Temporary E&S pond	17	17	0%	15-Mar-17*	31-Mar-17	
A1075	Phase 3 of Construction - Temporary Treatment System (No Contact Water Discharge from S104)	141	141	0%	03-Apr-17	16-Oct-17	A1072
A1080	Interim Post Construction Construction (No Contact Water Discharge from S104)	261	261	0%	17-Oct-17	16-Oct-18	A1075
A1085	Post Construction Condition (No Contact Water Discharge from S104)	45	45	0%	17-Oct-18	18-Dec-18	A1080
Outlet #3 (Low Volume Settling Ponds Outlet)		1306	1306		15-May-15*	18-Dec-18	
A1110	Phase 1 Through Post Construction - Divert Oily Wastee Stream to Low Volume Settling Ponds	911	911	0%	22-Jun-15*	18-Dec-18	
A1115	Temporary Oily Waste Diversion to Low Volume Settling Ponds	360	360	0%	15-May-15*	03-Oct-16	
A1120	Install Permanent Oily Waste Pipeline to Low Volume Settling Ponds	196	196	0%	04-Jan-16*	03-Oct-16	



Actual Work — Critical Remaining Work
Remaining Work — Milestone

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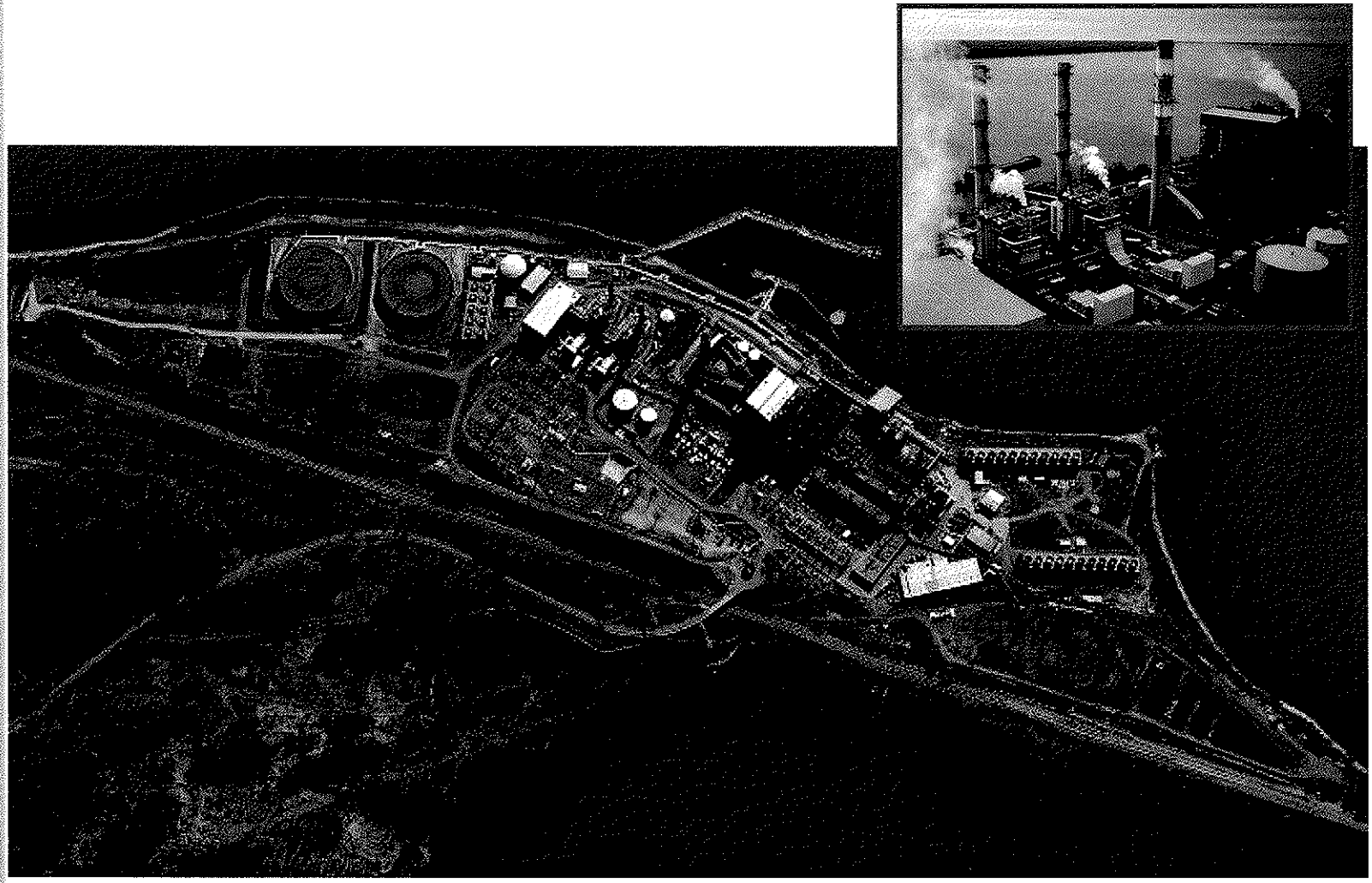
6350

6351

Dominion



Possum Point Power Station

6352

Dominion

Agenda

- Introductions (1:00-1:15pm)
- Briefing and Discussion (1:15-1:45pm)
- Pre-Tour Safety Briefing and Tour (1:45-2:30)

6353

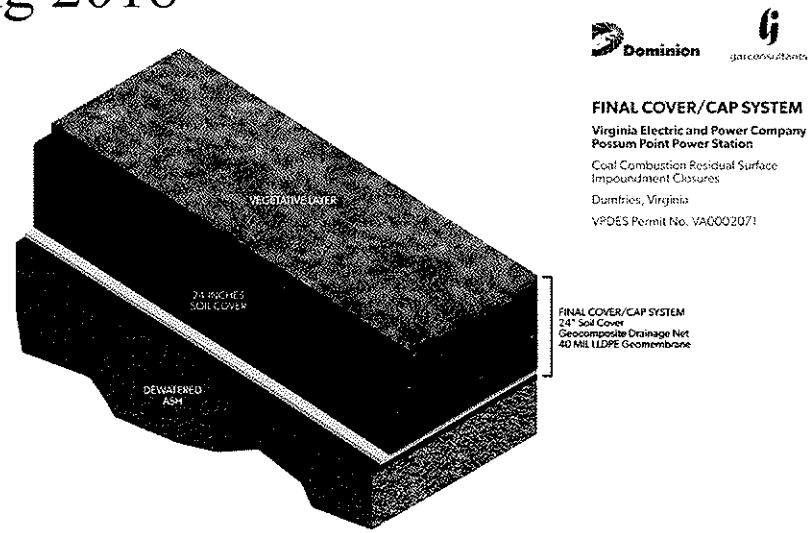
Dominion

Possum Point Power Station

- Dominion Virginia Power
- In operation since 1948
- 650+ Acres in Prince William County
- Coal units converted to natural gas in 2003
- Natural gas and oil-fueled power generation
- 1661 MW generating capacity, enough electricity to help power more than 415,000 homes
- 108 employees

Coal Ash Ponds – Closure Plan

- Move ash from A, B, C and E ponds to clay-lined D pond
- Clean close A, B, C, and E ponds
- Place High Density Polyethylene (HDPE) cap and cover on D pond
- Target completion spring 2018



Dominion

Treated Wastewater Discharge

All wastewater will be <u>treated and tested</u> prior to discharge. Dominion <u>will not</u> discharge any untreated wastewater.

- Possum Point received a water permit modification in January 2016 to allow removal of water from D pond. A water treatment process will be used to treat all discharges from the pond..
- Public input resulted in increased stringency of the final permit issued by the State Water Control Board.
- Submitted Concept Engineering Report (CER) to DEQ for approval of the wastewater treatment design on February 12, 2016.
- Prior to water discharge –
  - Dominion will complete a "dry-run" of treatment system (without discharging) to ensure technology is working properly.
  - Water will be tested to ensure all discharges meet permit limits.
- Water discharges anticipated to start in March 2016.

Permitting and Closure Process – Next Steps

Solid Waste Permit

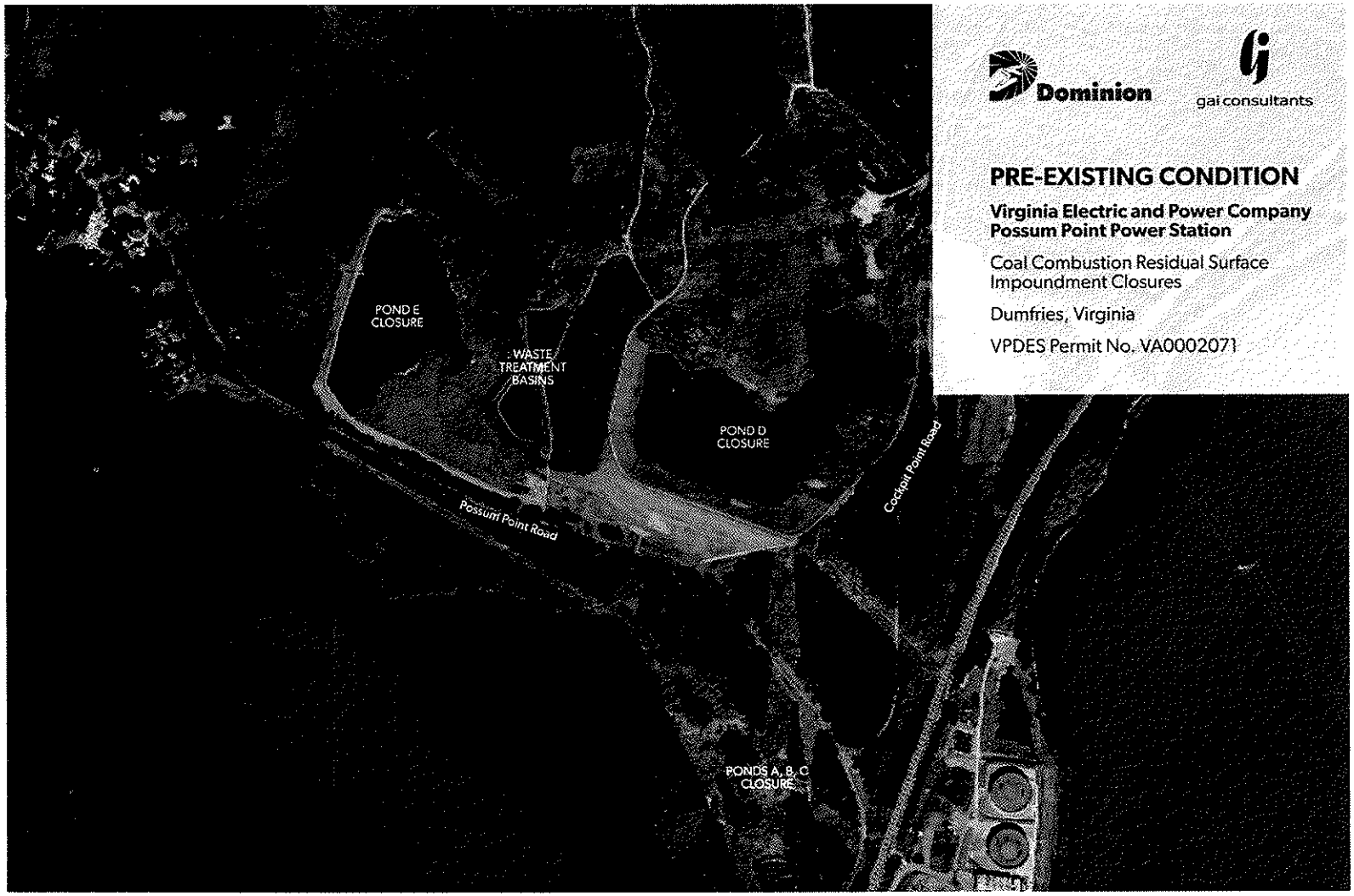
- Additional solid waste permit required to address cap design, groundwater monitoring and inspections with opportunity for public notice and comment.
- Anticipate draft solid waste permit will be available in March 2016, DEQ public hearing in April 2016.

Continued Community Outreach

- Letters sent to residents
- Outreach to community groups

6356

Possum Point Pre-Existing Conditions



Dominion

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PRE-EXISTING CONDITION

Virginia Electric and Power Company
Possum Point Power Station

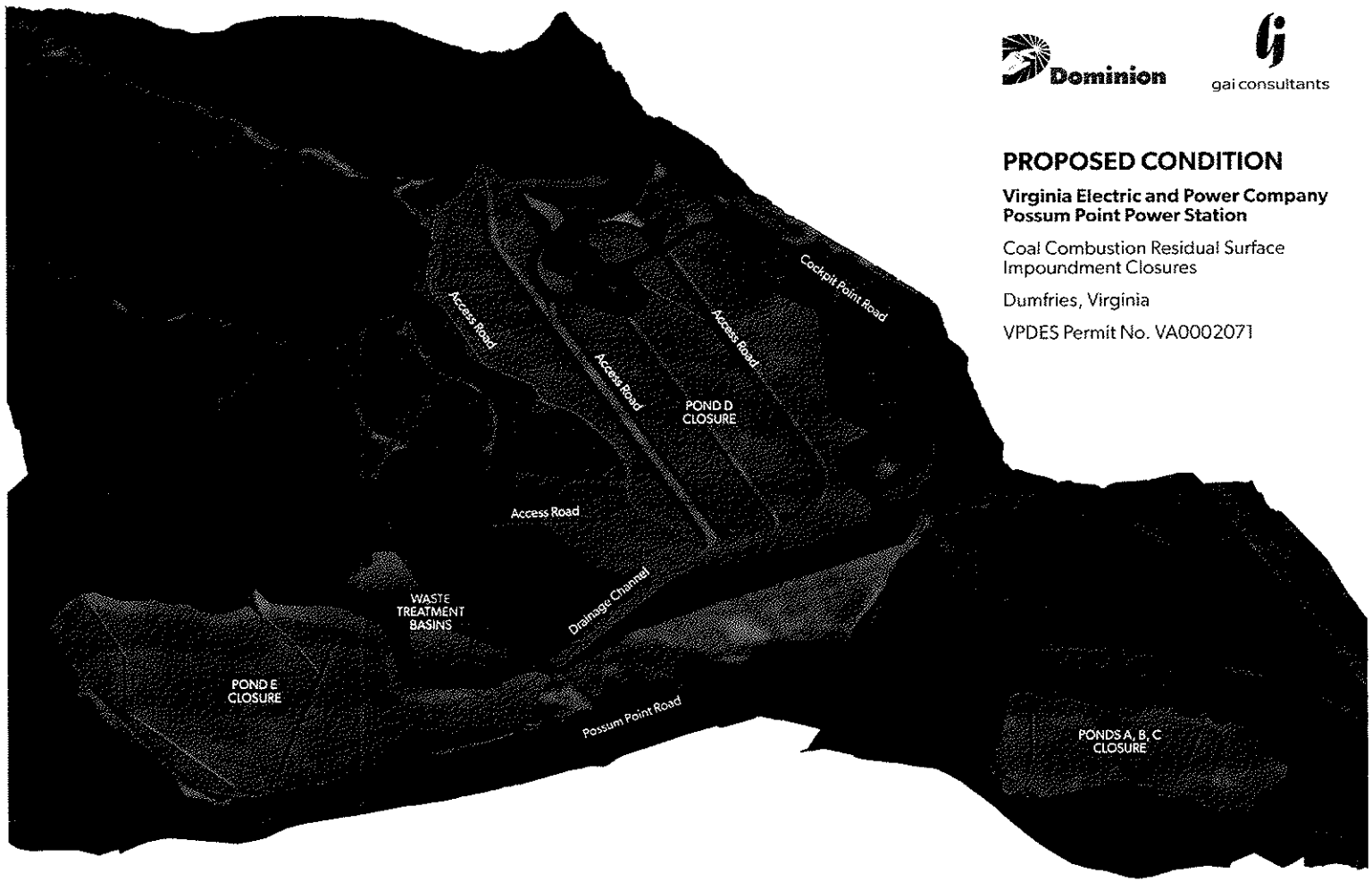
Coal Combustion Residual Surface Impoundment Closures

Dumfries, Virginia

VPDES Permit No. VA0002071

6357

Possum Point Post Closure Rendering



PROPOSED CONDITION

Virginia Electric and Power Company
Possum Point Power Station

Coal Combustion Residual Surface Impoundment Closures

Dumfries, Virginia

VPDES Permit No. VA0002071

6358

Dominion

Appendix

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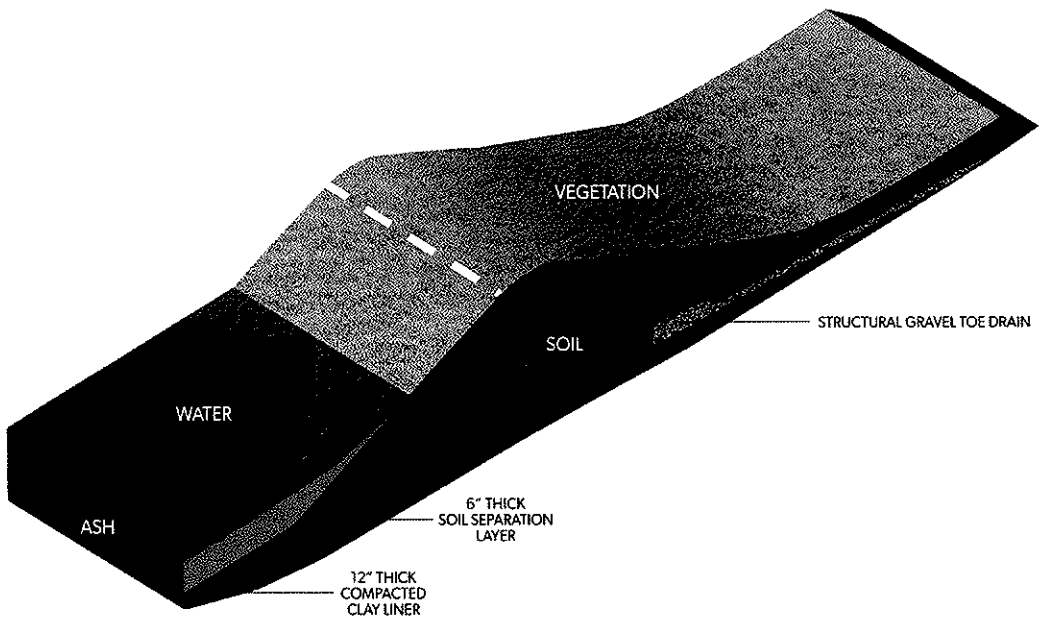
Toe Drain



Dominion

gai consultants

STRUCTURAL GRAVEL TOE DRAIN : POND D

Virginia Electric and Power Company
Possum Point Power Station

Coal Combustion Residual Surface Impoundment Closures

Dumfries, Virginia

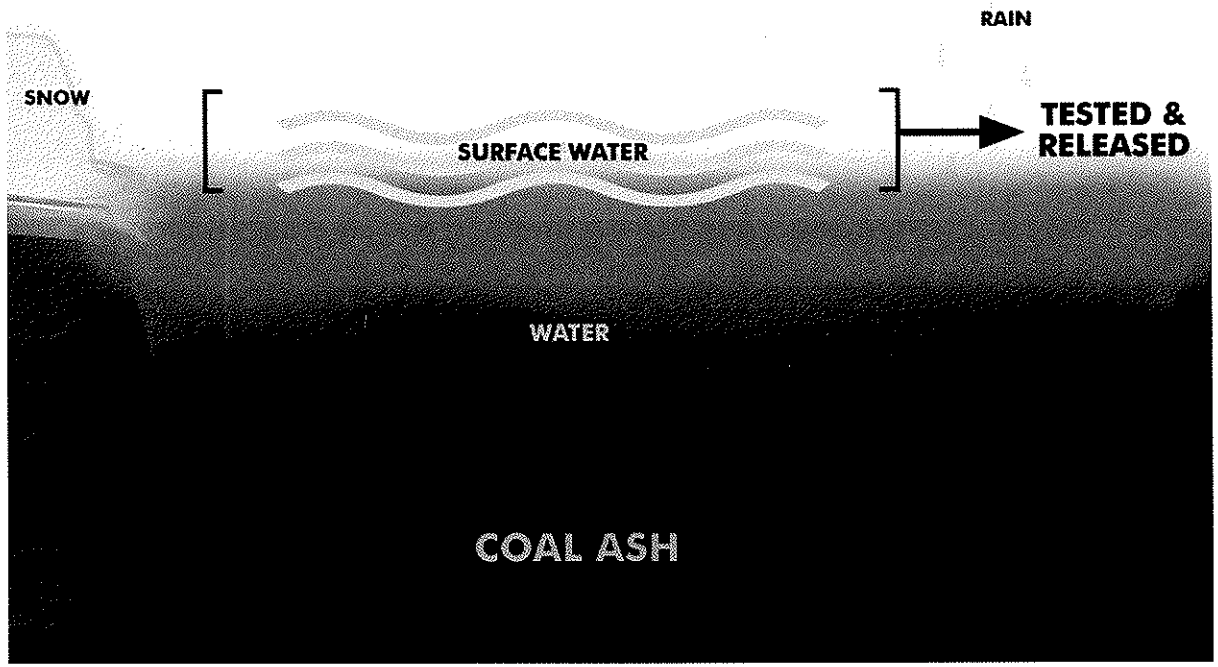
VPDES Permit No. VA0002071

6360

Dominion

Historical Discharges, Prior to 2015

PRIOR TO APRIL, 2015



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Dominion

Wastewater Discharge

Additional Conditions Required in Final Permit

- Public input resulted in increased stringency of the final permit issued by the State Water Control Board (see slide 12).
  - applying effluent limits to the discharge from a collection drain and stormwater at the largest pond into Quantico Creek;
  - limiting the drawdown of pond surface water to 6 inches per day, except as approved by the Department of Conservation and Recreation;
  - increasing the sampling of ash pond discharge from once per week to three times per week, with a shorter reporting timeline as well;
  - requiring the submission of a conceptual engineering plan for DEQ approval prior to implementing treatment system;
  - putting into place more stringent effluent limits for all ash pond discharges; and
  - requiring the company to immediately cease discharge if effluent limit is exceeded and to submit corrective action plan for approval before restarting.

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Possum Point ASH PONDS A, B & C

3-31-14

1955 = UNIT #3

POND C - concrete riser & 30" outfall pipe.

POND A - Breach with overflow - erosion gully downstream face of Dike.

Area - to identify water shed that leads POND C

- HAND PITS = NO soil COVER - A couple inches of topsoil.

- internal video inspection of pipe lines indicates that most of the pipe is in tank, except one small section @ end of pipe at discharge end.

- Study Pond as part of sale to General Dynamics - 2003/2004 Phase I & II - Evidence of elevated metals from soil.

LAST DMRs Report - 1976 - for PONDS.

Any notifications to STATE RE: No longer using ponds?

Proposed action -

① Divert water from A → B & C (Temporary) -

- EXCAVATION IN Pond AREA - 5' wide ditch - 100'

② Repair to erosion on downstream slope of Pond A

OUTFALL is currently stoplogged up 2-3 feet ABOVE water level in POND C.

② - SAMPLE OUTFALL - / MAJOR MOD TO VPDES PERMIT?

① ACOE - determination on wetlands - Check on Nationwide

Cities Bay - RPA - check on

- IF leave in place would probably qualify as a Dam -

NOTIFICATIONS -

① WATER Sampling Plan - ENV.

② Brief Executives - DC

③ Contact agencies -

- USACE

- DEQ

- DCR

- PWC

(Ore-check to each BLL)

① identify who has control of LMS for each Business units
② get printout of who gets what LMS Training w/in each BLL
③ get printout of all Environmental Training.
④ Talk w/ indiv. and ECCs about what Training is given, to whom
⑤ get ideas from each ECC about gaps that they see in training.
⑥ Audit Findings / Self Assessments / input from Env. Specialists.

- LETTER TO DEP REQUESTING EXTENSION until we to allow us to come to an agreement to address point conditions - Administratively continue point control conditions are worked out.

5/2 -

Meeting w/ DEC

Richard Duratt -
Environmental organization chart
Capacity Remaining in Pond E
Volume/dimensions ABC. = 12 acres & 170,000 yd³ of ASH
estimated from the drawings.
- Ensure no storm on horizon P/T Digging Ditch
- Documentation plan
- BMPs.
- monitoring during work - What parameters?
- 2F application - ASAP.
- Detailed contingency plan on How to Respond should catastrophic
Mail Occur -
- Temporary pump WRRR to pond E - to eliminate Discharge
- Do we want to continue to Discharge through structure -
- Nickel TMDL -
Sensed to provide 1991 Fact sheet / permit -
- continue all next week - to discuss status -

- Quality Control environmental Awareness Tool - would be used

LMS Reports - How to get status reports from LMS -

6-18-14

Millstone Mtg w/ DEEP re: UHS

* DEEP concern is that current temperature monitoring location allows for mixing w/ receiving water - we've done studies that show that the sand does not make into quarry - can't overcome flow of discharge - DEEP to consider this further. (Side-By-Side monitoring)

- Infrared imaging - How good could it resolve temperature?
- Documentation to show that it is not part of our plume - "pinwheel effect" of "near-shore" warming.

Maximum length of 4°F isotherm - get slides to calculate for plume only.

Bill to send DEEP 5 year temperature trends - copy ideal sand -

6-19-14 Possum Pond C

- shallow groundwater component in riser structure discharge -
- Form 2F scanned & prepared - Pryant Trees -
- Nickel sediment chemistry & toxicity tested - probably 10 year old Darren location very close to A, B, C Ponds - Bryant mentioned limit - for nickel -
- Not dilute as an impaired water body -
- Would suggest more data for discharge -
- Do we want to generate data for other parameters -

Possessor Rent

- Dredge E → D 3/4 Rule Effective Date
  - 24/7
  - 3 Km off Pharmacies → land fill
- Dewatering of Pond E @ and may become part -
- Don't think they will need whole pond -
  - only waste pond & metals pond → LVW
- Any work done w/in ABC wouldn't need a permit -
  ABC - would need VPDO permit for Disturbance w/in Pond -
- Define total area of Potential land Disturbance including area to be used for Borrow for fill -
- No Permit Need Determination from CAE/DEQ -
- CBPR permitting -

2-6-15

Bruno/Bruno Pond Closures -
- What is timeline for getting design developed.

2/9/15

Team meeting -
- ☐ What is our role in Pre-audits -
- ☐ Rick's email - how to make sure that it gets saved
- ☐ Transition -

2/10/15

meeting w/ DEQ -
- Provide plans & contact w/in a week -
- ☐ one-more Day to firm up schedules -
- ☐ separate Bid for marketing / separate scope -
  - Veritas / Nanoscale / Chapman Hill -

Bill Bartron is going to retire May 1

☐ STEVE to check on area to be disturbed by ISFIE HSM construction - Don Hintz look into any special considerations DO to area of concern status -

☐ - start fabrication mid-2016 / when do they plan to start land disturbance?

2-12-15 | Possum Point MTG w/ GAI & Power Gen re Pond Closures

- Dredging

☐ ① No Permit needed Determination - | As Built Drawings of Ponds - = BOD to Built narrative - + Drawing -

☐ ② Eagle consultation =

③ Fish kills ☐

☐ ④ Permit condition = Nurity today -

For eagles - noise & light -

ABC Ponds -

① Wetted delineations around ponds have been performed and JD received =

☐ ② modify VPDES permit for Discharge from Pond C -

③ Eagle seasonal concentration Area - May 15 - Aug 21

- 30-90 days / 6 months -

☐ Send GAI a copy of Appendix to modify permit for pond C Discharge

- Closure plans - for Ponds in conformance -

- clean close / Repurpose of Pond E -

④ Power line - work / safety requirements -

- access - for maintenance

Borrow Area / work around D Pond -

① If go outside of pond -

② GAI to Delineate wetlands / cultural resources / TEC

③ small alluvial Bayou -

④ northern long-eared BAT -

Kew to handle LVW during clean closure -

Cont 5 Blowdown is issue for LVW - Summer month

Dredging area in front of intake screens - Does not work to preceding dredge -
Level wetland appeals -

Pond E -

2-12-15 continued

- Changes to discharges -
- Remove Phragmites -

- One site - per / ECS / construction point -
- Pond D - handled dredged material sin particular areas to prevent settling and cleaner decant back to E.
☐ - Fill material - Pond D → from County - is it good for clean fill - Jeff. Mercell

2-18-15 CCT staff meeting -
☐ Comments on safety charter → Cathy By 20th
☐ Live item Budget for cost center - April to Develop estimates.
Scott / Cathy to Do 1/4 ly meeting together 3/19 -
- Pete Stoneke to give -
- 2015 Goals -
- Pan's Availability -
- CCR.
☐ March 3 permit roll-out meeting - open forum on permit roll-outs - How we do it, what works well, what doesn't - Be prepared to talk about how we approach permit rollouts - product = list of best practices
☐ Rick Woolard - can he attend?
2015 Goals
- Permits - Tracking - Renewals -
Millstones input to project
☐ Find out Decision on Plant Tool - Amelia
☐ Guidance documents - Revised list
Environmental Training -
Train the Trainer HAZ WASTE - D. Shade 3R safety.
Dennis

SUBJECT | DATE

3/3/2015 Prioritized/contributed AC
CEC - Response to CIN Apeake comments on
Closure Plan - due 3/9 - Draft Response
by 3/5 - copy chg/CTT

316(b) weekly MTC -
* monthly cost Plan needs to be
developed - once HDR is on-Board
- HDR to Develop schedule -
- Need Dominion DEP staff estimate
for subject -
- Need separate one for manchester st.
- station staff
* NBU - also - BoB Gordon to
discuss w/ Steve Jones -
- MT. storm letter work out today -

- Possum Point Pond Closure
- Pond E Bathymetry -
- Survey of eagles nest -
- should have aerial mapping send
- Pond D Bathymetry next week -
- Complete ABC electrical starter sg lots
Wetlands / cultural - waiting for snow
to melt before completing - Teams meeting
for NEXT WEEK

Dredging -
- Mechanical Dredge - draw closure 180 days -
- Permits -
- lower the water in Pond E -
- During last Mechanical Dredge
- Another event During 2004 -

3/3/15

SUBJECT DATE

1B STRONG!

3/3/15 CONTINUED

☐ Haul Road Disturbance - Build up with aggregate - 30,000 ft² - Not Really Disturbing the ground - no excavation - just placing stone.

☐ Calls to check w/ Prince William County. (10K ft² threshold?) → No wetlands in AREA - Administrative Review -

☐ Jeff Mucell to get file for 2004 mechanical Dredge -

- Consider both mechanical and hydraulic dredging of Pond E -

- Eagle consultation letter -

- GPI to contact Glover -

We're going to get w/ Park inspector -

- Cultural Rock top review is almost complete

☐ Cultural Review (Article -) - Comments -

Do we need another sample from clarke discharge - rock w/ cattany -

- Clean Bishop-Ilus - O&G/BOD -

- Outfall C can that be removed - w/ sheet flow - - should be good -

Rubber tired Backhoe - to kid perimeter - 1 ft wide Backhoe -

Keep volume low -

500' backfill cover w/ gravel -

☐ set up call w/ DANS - Res

LVWP - Quality of water - Keith Henze looking for data -

I agreed that THEY CAN remove stop logs to lower level in the pond w/o any additional monitoring or permit modifications -

WARREN County - STORMWATER discharge -

Discussion w/ R. Linker

① DEQ sees no SW Point

② EPA no UIC -

③ Take point authorizes SW -

Develop plan -

☐ CCT -

[BMPs -]

- covered legally -

- Need plan to cover compliance w/ Point -

SUBJECT | DATE

3/4/2015

Chesterfield - 005 - Discharge pipe located under the pond liner - under the earthen Berm - First 12 feet of pipe from Dent structure to Trickle of flow - Does not occur during Drier periods - Conductivity = 124 scm -

NAB Dam Release SOP -

316(b)

Mitchell BTA?

- External Affairs need to know when we are meeting w/ Local officials -
- Need TIER status & sign-off at Aeroporte level -
- Mt. Storm Pond closure/Relining -

Possum ABC 1

Delineation of ASH Boundaries -

- Dry Dry Dry
- Not leave overnight in open condition
- 10 ft strips -
- Will lower NERC compliance Area during closure plan -
- Borings = [illegible] & density -
- TOM FAIRA Re: Placement of ASH in Pond D.

3/5/2015 Millstone Heard Modeling

☐ Millstone HDR - Look @ meeting minutes

☐ Should we Request Extension of Deadline to Recommend monitoring ~~projections~~ - Locations until model projections are complete -

SUBJECT DATE

{ CEC Reg. Statement
{ Possum Point meeting/PWC

3/16/15

Possum Point Pre meeting -

(6) Possibly take Oil water Down to 004
(1) Metals Pond as LVWP
(2) E either clean close or close in place -
(3) ABC -
- Timing - Conditional - stable and creating
greater environm -
- Devegetate / cap -
(4) Closure Plans -
- CAP would be consistent w/
VA solid waste management Regulations -
- Area Required to clean Closure but
would to do so -
- Plan to close ponds in two years -
- would to begin moving on ASAP - as
late than October 1st
- Get Fire cleaning site
[illegible] Second closure plan as soon as we
have engineering -
Plans are fully consistent w/
Round modulation needed loss - Ash
produced on-site -

3/17/15
316 (b)
☐ HDR Kickoff meeting
☐ Jason to set up MTG to send Redelegation
of presentations from Dech at facility
meetings

SUB "PREMATURE CONSTATION of Life Functions" DATE

BLIDERIZATIONS -

3-18-15

MEETING W/ DEQ RE: Possum Point ASH Ponds

Clean Closure

Look a engineering of Pond D - is it adequate to Receive - is it Designed to today's standards -

- IS VPDES the Best option for closure.

- Layer of saturated ASH - Pond ABC

update 2004 RISK Assessment -

☐ Data for [illegible] to Susan Mackert -

✓☐ Details on construction of Pond D - TO DEQ - is system today integrity -

☐ Possible to put pond inside of pond -

☐ RE Route

- ☐ Portable WWT system

☐ ARE we comfortable putting Anything is writing -

3 Potential Paths

(1) EPA CCR Public Timeframe

(2) VPDES -

(3) Solid WASTE -

Delineate Which of Closure items -

Closure Plan Move is NOT REQUIRED

☐ Could we Handle Pool & Dewater Waste Regs -

- USE direction [illegible] to issue a [illegible] to cap & close -

- Not an application project - Submission of [illegible] Notice of intent to close w/ [illegible] [illegible] application -

Alan Brokenbrough
Justin Williams
Susan Mackert
Tom Fanna
Bryant Thomas -
Kurt Kochan
Richard Doucette

- Data to support that increasing CCR Trend are not result of leaching - not engineering -

SUBJECT | DATE

NEXT STEPS

- Movement of ASH E → D
  - ON ___ we intend to begin dredging from E → D for compliance under CCR Rule -
  - ☐ GET LEGAL to weigh in on condition -
  - - How sides a position WE can TAKE -
  - - WHAT DOES Legal say -

John Klamut
MIKE LOTT
MIKE GLAGOLA
Jeff MARCELL

3/20/15

Possum Point DEWATERING discussion -

Assuming that ASH in POND E is similar to POND D - NOT NECESSARILY -
- There is ASH itself - But also source of Recharge - Determine Ability to Dewater Pond -
- Would information be useful for D if we decide not to Dredge Pond E.
How much water would be generated - During Testing or Dump Back
- Dewater Pond using stop logs / Replace logs
Need additional investigation BF Another log is pulled - Mike Watters & John Cimis - } SAFETY
☐ if went to 004 what would limits BE?
- I'll provide DATA -
Add another component to test - add a Deeper well ~ 60' to see how that sand reacts B/C if you would Never Dewater ASH w/o Dewatering SAND.
2 weeks should know what we're doing with Dredging -

Testing -
25 → 30 gpm for 10 days
[500,000 gallons TOTAL]
- Discharge Back to Top of Pond E -
- Possibly put Dewatering TOP water into the Metals Pond -

For testing put wastewater in Pond D -

Any Rainfall ~ 2" would BE 5 million gallons

Probably will need system @ least to Adjust pH.

SUBJECT DATE

MT. STERN Tiered -

316(a) - Tiered Approach -

① At what point have we done enough

② Total End Date to end of June -

- During item Meet w/ DEP -

- Send email to Matt & Jenn -

*With possible meeting Dates -

Possum Point Pond Closure MTG.

☐ Cathy to talk w/ Jeff Stern Re: How to proceed w/ Selin waste closure — Not part of MTG

☐ LVWP - looking to see if there is internal Data for 501/502 -

Amelia Has posted to Eprom (502)

☐ Cathy is also going to talk w/ TRL & CB — Not part of MTG

Re: Transfer of Ash from E → D

3-24-15?

* ☐ Provide list of WLAs for parameters that would need to be met in discharge of LVW

* ☐ List of Parameters & WLAs for final 005 discharge -

Put water in Pond D until we can figure out discharge through PANDE

Divert water around cap -

* 316(b) - What are Relevant Factors that Agency is going to have to answer to make a decision - need to address them

SUBJECT | DATE

- Wetlands Board - Advertise -
  Tom Do Brosky -
- VMRC website - Tidal wetlands -
  special JPA
  - Need site visit w/ wetlands Bd -
    & VMRC -
  - estimate impact of 8-118 $/ft^2$
    dividing of impact to Vegetation
  - VMRC may Bring up site fix -
  Public Hearing / wetlands Board -

> 50' RPA - RPA Board - may Be
  mitigation - water Dependent activity -
  shoreline stabilization

IN Standard JPA - subtract tidal
  and non-tidal impacts -
  Carry wetlands part 1 page sheet
  $1500 application fee -
  Send email - TO TCM -
  Do site visit B/F approval -

Possum Point ASH POND Project

1. Metals Pond Post construction criteria
2. Dewatering →
3. Oily waste Pond to 004 -

Can we put dewatering from E to D -
  500,000 gallons
Also will pump storm water to D ☐ → CAN WE DO this?
Metals Pond → 005 Treatment system
When they Do pump test get DATA -
☐ Maybe install piezometer get single → call Karen
  Test for metals -

Submit site Plan -

~~prep~~ prep site visit

Tandem Environment as a whole -

Super silt
FENCE

Geotech Recommendation
Need to Be on
Plan - NOT
Apparently on 1st
submittal

3/26/15

SUBJECT

DATE 4/1

FHSILB - 4
NUCSILB - 3
VCHEC - 1
GENL - 1

Possum Point Ash Pond cell

① Wetland survey completed - mapping underway - 2 weeks will have map for Review

② Site Plan -

3c - ESA DESKTOP Review
- Small whorled Bogonia
- Hoppardia
- Dwarf wedge mussel -

Northern long-eared BAT - Did not get a hit - All known sites for Northern long-eared are west of Blue ridge

No clearing threshold for NLEARD BAT -

- Mid-April Have enough information to have meeting with Prince William County - Re: Tech project -

① Tiberia Revision contact/Phone # & agency contact channels -

Pre-Edesum GW monitoring -

4/1

316(b) Kickoff Meeting -

Enviroscience - Re: Possum Pt?

Doug Clark - Sturgeon AC VA -

Previous Consultations - Issues Raised -

Strategies? HDR

Changes to Tilt but HDR is working on -

Velocity (threshold) for entrainment?

- Different area of influence for all Tidal conditions.

- Volunteer flow Basis.

Low water level - design of outlets

DCIF 0.25 fps.

SUBJECT | DATE

"UN-WATERING VS. DEWATERING"

4-9-15 Pond Closures

- Possum 3 well pts -
- Done used to determine treatment system - provide projected effluent data
- @ Chesterfield will only be Dewatering a certain -

☐ At What Pond in project does closure Begin? - What is CCR Rule definition? — need more discussion

☐ Provide list of parameters to sample — ✓ DES

* each project provide procedure for obtaining Representative sample for Dewatering — Project

☐ Break Between operational & construction — Narrative/schedule/figures

~~14 working days - Bremo & Possum~~

Draft By Monday 1st - GAT/Golder — Possum/Bremo

2 weeks → 23 chesterfield

☐ - Impervious vs. pervious

☐ - liner for Repurposed Ponds - is this acceptable? - Do we need duplicate liner @ Bremo/Possum - ~~[illegible]~~ ment storm — DES

180-days - Narrative — * Set up meeting w/ Dewatering to discuss what constitutes closure - Mike G. Chris - John

☒ Biology needs to provide guidance on BAT - Curley Hollow -

Mount Storm

Need 5' above the highest expected GW level to meet CCR Rule Requirements

① Get in Trail of DEP - ASAP

② Mount Storm Narrative/figures, etc by 23rd — Narrative, figures, schedule by 23rd

③ Borrow area Covered By Permit For Railroad/Fuel Building — ☐ Ours to provide summary of GW permitting tiers -

SUBJECT | DATE

Possum Point Ash Pond Cell

- Need to schedule meeting with
- Prince William County 1st week in May - to discuss project -
- Use sluice pipeline - No longer being used -
* possibly separated stormwater from dewatering - that dewatering separately -
- dewatering definition

4/15/15

mt. storm 012 & 015 limits
- Treat leachate with evaporator option - feed both 012 & 015 → scrubber leachate ponds -
- New/bigger pumps + evaporator -
- send historical data for discharges to Marcellus to see if water could be used as makeup - to scrubber -
* overflow in extreme inflow condition -
- - 25 year storm events -
- By Pass -
① Mike to map out options & strategies costs / Risks -

8/16/15

ASH Pond consistency MTG.

- Closure = should not include Dewatering of ASH
- start placing material for the purpose of closure -?
- Will PEQ require 180 day notification B/f closure.

4/14/15

Risk

SUBJECT DATE

Pond E will be empty next week.

-2 week turn-around

- Possibly take cool pile Runoff to metals treatment pond -

- What ELG limits would apply to metals treatment pond discharge -

- what groundwater parameters

AT what point does work in Pond become land Disturbance

4/16/15 continued

4-17-15

316(b) weekly call -

Site Visits - issues/concerns remaining ~~[illegible]~~ will be identified and brought to our attention - steve Jones -

☐ Surveys - can be primitive -

safety is a concern - looking into sampling in a different area -

- b/c of curtain wall in front of travelling streams - may just use a bottom sample + something else to be assessed by HDR/Enviroscience w/recommendation -

Clover - in Plants hands to get information from RFI -

- AEP - submitted prepared by HDR/Enviroscience. Need to get a copy of the Report

SUBJECT

DATE

4-20-15

WATER permitting -
- Dewatering -
- LVW
- GW monitoring.

WASTE -
once in a "Stable Pattern" to
Receive the cap -
CPS - lost Receipt of ASH - upper pond -
under VPDES until closure -
Amend closure plan ~~##~~.
- would Receive all closure
Activities on website -
B/c if is an existing Pond -
OPTIONS to handle seeps
(1) DON'T MISE W/ Boiler plate - Put
in Part T - special conditions
3K(b) MF Rel Passive Put
FREEZE Protection - is it w/in
tunnel ~~ar~~ -?
(2) NAPS - how much water is Recirculated -

4-22-15 Permitting ASH
- For each option map out how it is
Acceptable under NPC Verses Permit mod.
NPC - 1983 Regulations - Permit Boiler
Plate - look for guidance then put
on when the guidance could be
applied -
- When will samples be collected for
each project -
☐ Break to get clarity on NPC V. Permit
By Friday or Wednesday -

SUBJECT | DATE

Possum Point ASH Project

→ How to cover seems in permit -

4-28-15

Dominion Bond meeting 5/6 - will BE instructions - on arrival

Quarterly meetings -

WATER / AIR self Assessment -

- SITE - specific
- major facilities -
- Pilot Project

} Possibly work w/ Dominion - on SOW -

Nuclear Training -

DVP Points Goal - connect to what his staff does on a daily basis -

4-29-14

CPS / SPS 316(b)

- AOI DEQ looking @ AEP submittal - Phase I Rule

AOI + 100 meters.

hydraulic zone of influence -

- 1/2 width of stream or other MZ Restrictions -

Periodic Meetings - possibly 6 mth updates.

SUBJECT | DATE

CCT UPDATE

Root cause

- Description of Evnl & Corrective Action
- CEC -- Instream Sampling -
  - Arsenic Sampling instream for CAP -
- MSS - 311(b) schedule -
- CEC / Posser / Barne - list of points & other needed -

5-26-15

- Possum Point ASH Pond
  - Rim Ditches have a lot of metals -
    As, Sb, Se, - should get DATA
    Soon / Tomorrow -

STEVE HORN - update

Rolled out U2 DMT w/ ECCs and chemistry -

① STEVE plans to call Chris Gleason Re: language in DMT approval -

② Steam Generator DMT still holding - Copper cleaning water water

③ Water treatment GP to come to an end ~~[illegible]~~ NEED to apply for a misc GP. NEED to hire a consultant - NEED to apply around NOVEMBER -

STEVE to put ECTS Remission tomorrow. Begin working on Applications

④ Self Assessment - NBU

NEED TO SET UP internal MTG TO Discuss -

SUBJECT DATE

MSS Hurricane Barrier - Discussion w/ Angelo L.
- USACE Doesn't have any Burning
need to get Document Done - other
than to have Before next water fire event -
- will be 30-day comment period + review
period -

6-2-15

Possum Point Ash Pond call -

① - started mist surveys for
Long-eared Bats - last night - Non-
Target species collected - will continue
for ~ 2 weeks -
② will get Ash samples for testing ABC
for Dredge next week -
③ only reviewing comments on wetlands figures.
- Based on sketch plan possibly I impact
to ephemeral channel and 1 isolated
wetlands -
- should be in good shape
as long as USACE Permit made
jurisdiction when in-part
④ meeting Tomorrow/call - w/ PWC to
provide additional impact on S. to
plan -
⑤ TEE - intention submitted waiting to
Hear back from DCR -
Historical Resources - sketch plan
provided 5/29 -
- No Real issues - there are
some areas associated w/ Burrow
Areas that might need further
evaluation - our demonstrate letter
Basically said that - we are
waiting for demonstrate -

Once DCR consult
Received will submit
FNS - to VA Field
Office.

SUBJECT | DATE

Waste - meeting with DEQ this week -
Hope to have closer path for application
Requirements

Water -
① Do we have option for moving
out Discharge - Have No-discharge
for How long -
- County WWTF option - sanitary connection
that goes there -
- Probably would be dewatering
only that would go to treatment
point
- Possibly Drain Pond D under HOPC
- idea concept on Monday -

Manchester Street options for Water Fire Event
① Run model - does it show NON-compliance
short Down -
- set up model to predict
at what conditions would
Result in > maximum -
② short-down unit
③ Not have during certain times of
year -
④ durations of events are short-enough
and infrequent enough that no
harm would be expected - *
Normandeau pulled temperature from
buoy and provide - near surface (~1m)
near Bottom ~ (16m)
We've exceeded 88.5 @ upstream Buoy -
- possibly average
Chris to get data for 3 days brackets
Barrier closings -

6-2-15
continued

Chris, Steve, Don — Bob cat Hy

Riden needs to
Accept existing model
B/H we would Run
model for Water fire
events -

① Also look @ average
of temperature over
events
② Anticdotal Evidence -
Based on History -
③ Any Corp open gates - *
if temperature gets to
high -

75°F was used for
Repowering model -

6-8-15

Possum Point Ash Pond Closure -

- Sanitary System - Reasonable flow rate -
- D Pond -
  - free liquid
  - water in total of ASH -
- 001/002 - Do they always have a pump - unit 3 intake pump -

① Discharge to 001/002 -
- All waste waters -
  - establish flow rates for each
  - Waste stream
  - cooling water Drain flows

② only waste passed to WW & make existing point.

- Cannot take - OAS to Delta - For dilution -
- Take it to outfall 005
  - flows & construction schedule -

~~③ ASH Dewatering~~

③ Pump FREE water out of Delta Then 005 -
- flow Rates -
- chemical data.
- WWT needed to meet standards -
- At what point does it Become Dewatering.
- When they install Pump D. takes Free water steps -

- By Pass E w/D
- By Pass
- Run Pond D through a sample of water taken in E -

SUBJECT 6-8-15 cont.

DATE

D - meeting Re: MS Thermal -

INVITE RICHFORD

TEMPORARY

Pore water -

① To sanitary sewer -

② W/T to 005

③ W/T to 001/002

Unconsolidating D for GAI tomorrow -

GAI to have skeletal of write up

By end of this week -

MT. STORM 012/015 compliance

July update 7/15

By October = CER -

Pond chemistry - mike is going to

015 Talk w/ Consultant about Pond Aluminum -

012 - Engineering lead for Remoting -

Need to determine how to get project started -

6-9-15

MANCHESTER STREET STATION Hurricane Barrier

Flapper Gates - prevent inlet

allow water to flow out - 4 - gates 3 open in one direction and 2 in the other

* Buoy we have in River now is part of our permit. only monitoring function - original intent was to validate pre and post models -

- Need to offer alternative to what is proposed -

- USACE - monitor water temperature - when it reaches critical temperature open gates

- Located right [illegible] to 10 & 11 discharge -

- Add or release flapper gates -

- We're not causing the problem -

* Solution to open the gate.

SUBJECT | DATE

- Get consultants on Board NOW -
  - mike to check on money -
  - Develop SOW for Norman Dean -
- Norman Dean/EA/Kleinschmidt
  - Arith

☑ Talk w/ Catherine.

~~316(b) [illegible]~~

Discussion with PWC Re: Passer Point -

6-16-15

Evelyn Mayhew } PWC
Maureen O'Shaughnessy }

Dewatering - 200-500 gpm - one - 3 years - with decreasing flow over time.

Pond D - surface water - 1500 gpm -
- 2 months possibly 3 months -

Need information on pretreatment -

- Data & Flows -
  - Load limits - to be sent to Amelia -
  - Quality

Share SOP QA/QC w/CH2M
- Evaluate 10-year Biology -
  Kim Watkins -

Peer Review
- Review of Peer Review Hand Book
- Have to tell what peer Review comments were not included in Final Document -
- Comments outside of change would be dismissed
- Draft change under development

☑ Look @ P(13) Requirements - Relative to Describing - what significant comments were not incorporated into Final Report

SUBJECT DATE

- Peer Reviewers get work plans Ana
  charge - improve study plans
  Breed out id put -
- Dont work w/ Peer Reviewers to Develop
  Charge questions -
  - Facilitator/Developer

Possum Point Ash Pond Project -

- Glover Bryan dredging from Pond E
  → D.
- Water samples taken last Tuesday
  and Wednesday

6-16-15

Bremo Ash Pond discussion -
- Dewatering from West → North
  does that change North from
  Decanting -
  (A) Pole water already goes to
  North Pond via Dredging -
  (B) When moving WATER from West Pond
  To North Pond Nter QCT 17
  ↓ Ash is transported to the
  water is that acceptable ON
  will it have negative impact from
  CCR
  Sensitively analysis for moved of Ash
  mechanically -
  - month or so to get liner in service
  8/31 is deadline for hydraulic
  dredging to North Pond -
Review Flow Diagram -

☐ Ask Dennis.

SUBJECT | DATE

More Detailed Description of Plan of Action –

– Availability of Flow Data – for weir –

– can we send monthly data package –

– CCR Rule –

– Sub Brit need to Recognize that the goods have been taken out of service –

– call it a By-Pass – look at Appendix A to get old-new weird –

– [illegible]

Sub Brit Application to Recognize Planned By-Pass –

(1) By-Pass Notice – the application –

(2) { Prev & Permit in why weir Dir, it.
How weir Dir, it –
Bwaire & N Ban flow Diagram –

– C – Sub Brit tal –

6-29-15 meeting w/ DEQ Re: Ash Pond closure

December Board meeting – 12/11

① Notice sized tentatively w/ all of the parts

* Transfer of water to North pond –

Minimize solids – Make case –

Put Treatment on LVW – TSS treatment –

* Filter of some sort – make –

# of samples for TSS –

(As & Selenium)

Decant – used to Determine monitoring to Determine when to stop

– Equivalency of Treatment

Volume of Pond @ relative to Pond [illegible]

– Treatment on [illegible] → [illegible]

Minimize solids

* – To Replace weir Pond TSS Treatment –

Oil waste Brown to [illegible] → [illegible] under [illegible] –

SUBJECT

DATE

1 recalcat!

Possum ASH Pond Project
- Wetland - 6/25 USACE - won't take jurisdiction over ASH
- RPA - still need to get through PWC -
- Need to get map to PWC -

7-1-15

Possum Point ASH Pond Project MTG -
- NLEB - waiting on Remot.
upload to FWS website & self certify -
- Don't cut Trees/ABC till have way to control Runoff.
* Waiting on TBT Results to complete Submittal of ASH Results - should have by end of this week -

ABC -
① Remote surface water -
② Trees
③ Decanter -
- Combination of wall pits & Rim Ditches -
- pump to metals pond to Dirty Pond -

CERTIFICATION of Clean Closed condition -
- What is cost if we miss deadline @ D.
- What happens @ C w/ PMF flood?
- Look @ ditching around ABC to shut flow from upper Drainage area
- Could we pump uncontaminated SW to C -

① ASH FROM E → D
- clean close
- LINE E
② TREAT D → E & Hold.

Give up.

SUBJECT | DATE

① Notice of Planned changes -
- Treatment system for Pond D
- Pumping Rate -
pumping of oily waste pond → LVWP -
PWC - permanent diversion of SW around
ABC -
~~[illegible]~~ Narrative
Backwash from TSS Treatment -
- Decant would get Recycled
To Pond -
- Backwash Volume = 2-5%
of flow through -
Clean close E then prepare it &
* send Pond D water to E w/
Filtration.

- Reroute oily waste pond -

7/6/15
Mtg storm 012/015 - progress meeting -
- Rich Ford bricked on Reroute of
012 - by ECCs - Trying to capitalize
project.
- Talk about leakage from 015 causing
Aluminum to be higher - Pond is
leaking under liner -
- Mike write SOW for 015 options and
sent to Christine 2 weeks ago -
He will follow up with Her.

DEWATERING
?
7/1/15
continued

TANK Solution -
① Put in tank
② Test - discharge if
it passes -
↓
Need to flush out
opportunities for
Reuse of water if
can't discharge -

~~[illegible]~~ - New CWCC
for aluminum Brief
Proposal - Hardness - Based
criteria -

7-7-15

SUBJECT | DATE

June Staff OT
Amelia = 31
Steve = 2.25
Ouda = 30

Meeting w/ PWCSA -
- Submit information on flows with discussion on how we manage - Timing of project - Ability to manage flows to Treatment Facility -
- Process Diagram -
Simple point Tech 3 paths -
- Possibly a temporary point -
- would be testing -

7-13-15
Possum Point DHR letter. 7-10-15
- Requested Phase I shovel survey -
- Reach out to SHPO and let them know that LOD is more defined -
- Remove area from mapping that are located in ASH -
- Shovel survey in borrow areas -
As long as we can get clearance by March 2016 should be OK.
Glover probably won't be able to run from ABC for another 3 weeks
- get updated map with refined LOD and show areas that will be cleared - scheduled / scope to be included -
- Punch list of Action items -
Reach out to Reviewer to let him no that the LOD has been updated -
Ouda to schedule a conference call w/ VPH archaeologist.

GET 5 Reports - determine whether been tested and what hasn't
- Pick up Report VPH
- Week of field work
- LAB analysis -
W/in month should have something for submittal -

Based on USACE JD site work - won't be disturbing any jurisdictional waters - should be no need for USACE permits -

SUBJECT DATE

Oak

Mackinley sampling pin

Pitts - " "

ECC Rules & Responsibilities -

FOIA CPS -

GAI Historic Resources Report -

- Need 106 consultation finalized to get eagle take permit

Wisner County - Preserving lot

- NLEB / Indiana Bat -

- Bats in their condensers

- Isopods -

- 12 [illegible] 3 acres

Survey [illegible] -

8-25-15 PWCSA conference call -

Request to utilize VP Rightway (ROW) denied - Phil Sandino Public Relations -

- Angelita Gardner Letrell - Right of way management - ① Wood Bridge area - close to potential shores - Edge of ROW - ② Sewer force main w/in town of [illegible] -

Win - Win

Phil Sandino
Angelita Gardner Letrell

GAI to put together IUP application -

① 24 mgd plant - 300,000 gpd - if data shown no problem - [illegible] to 500,000 gpd

② filtration -

- Cost to tie-in -
- Look @ times when PWC would be expected lead -

- Permit Application / Letter of Agreement - [illegible] agreement -
- would be drafted by PWCSA -

LOA - very prompt - Need attorneys for next meeting -

Meeting w/ engineering groups -

PWC - incinerates their Biosolids -

Look at existing infrastructure -

SUBJECT | DATE

- Itemized list of pollution control costs
- permit appeals - for Brunswick

* SET UP MEETING RE: DEBRIS plant

STEVE -
① RIDEM RESPONSE TO 316(b) -
② CTDEP comments - on track for legal review on Friday 12/15.
③ Generator Engine Hours - During maintenance mode - currently designed so that hour meter doesn't run even though ~~[illegible]~~ unit is running - How many engines are like this in system -
④ INTAKE MODES - WANTED for April outage - ~~[illegible]~~ Need to think about whether this might have impact on 316(b) -
⑤ ENVIRONMENTAL PERFORMANCE indicator -
• 1/8 -

Types of treatment that could be employed

Surface Water Sampling Plan -
(Need to develop a plan -

12/11/15

Prince William County/SA Ri. Power

① Sampling Data for Pond D -
② metals Pond Data./Flow & quality
Pre treatment options
Maximum Identified Load (MIL)
- concentration/loading limits -
- Wouldn't achieve the 40 gpm to Force main - would not to pass to Grassing feed line which has capacity -

TOE Review

SUBJECT DATE

Old system for our [illegible] that could possibly be used?

10/17 - For [illegible]

would like to inspect site -

Drawings of Trial system -

Need to understand Peak Daily flows/monthly -

Model ① Permit [illegible] legal [illegible] to convert/inspect

② Representation & [illegible] -

③ Pretreatment program

④ Term/Duration -

⑤ Ensuring [illegible] -

We will get [illegible]

Permits to convert - [illegible] of these -

2 Trial - Dept/Division -

Value of [illegible] expected

Amendment to Permit application -

Plans & [illegible] to all [illegible] that we're going to [illegible] - w/ [illegible] [illegible] - [illegible] on our sites to [illegible] -

Method of [illegible] facility - "good as new [illegible]"

Pre-application [illegible] w/ [illegible] -

- [illegible] -

- [illegible] from PWLSA

- We would [illegible]

Town of [illegible] - [illegible] -

Sampling - [illegible] -

flow meter - [illegible] - [illegible] -

Local engineering [illegible] -

DVP -

Project advisor [illegible] to be [illegible] -

12-11-15 continued

SUBJECT | DATE

RECORD -
3-6 [illegible] Directors/managers -
Preference [illegible] to all Directors -
MGR -
[illegible] — [illegible]
— 3131 [illegible]
[illegible] — [illegible] -
- [illegible] -

1-19-16

GLOVER HAS SWITCHED TO CARBON AIR FROM APEX -
- GAI/Golder -
- TIME TO Build @ Bremo -
2 weeks of commissioning till Discharge ☐ WITH) Period to test sampling protocol
- MOBILE LOSS - How quickly can they BE ON-SITE
- CONTAINMENT ?
* TOE-DRAIN discharge -

Possum Point Project REVIEW -
① Pond D - create Box to seal off TOE Drain and capture - Box will be installed interior to drain entering Riser Box -
② WE have a plan for isolating the TOE DRAIN -
③ WEB-site to put results of testing for OUR USE -
④ VDOT Approval to Run Pipe Across Bridge to get to 001/002
⑤ NEED to understand impact / pipe sludge on auditing Discharge -

☐ IF WE Revert Back to Short pH is a CONCERN -

SUBJECT DATE

1-20-2016

Bremo/Possum Point Joint meeting

- All water to Be Run through Treatment Plants. Starts when we Begin any water ~~[illegible]~~ discharge
- 100% Compliance
GAI Trying to match Golder system
- minor deviations.
  - settling Basin w/ [illegible]
  - FeCl injection
  - Don't have aeration
  - Filtration after clarification
How to Handle the water after it comes out of Treatment system?
- Batch Versus surge Tank
  - Possibly include tank at Possum for Batches that turn to dewatering
Golder/GAI to move forward w/ analytical approach
5 weeks till all equipment onsite
Commissioning - to take ~ 2 weeks
Pipeline to outfall 001/002

7 weeks to discharge

MT. STORM HDR 316(a) thermal modeling call
- OPERATIONAL Procedure need to Be Five-tuned - Station has current procedure - To Be updated
Tare of contact this week
Call 1st week in February
① [illegible] of Bath [illegible] + [illegible] [illegible]
② [illegible] of [illegible] runs
③

SUBJECT DATE

Possum Trot -
Detect Hardness which are they Looking for (DEQ)

Chesterfield Permit Conditions w/ DEQ
① 104 MGD = 10 year low flow
② max flow Dewatering = 5 mgd
Verify -
Limits on ASH Dewatering Based on
3x / month - closer to 2.13
Limits on 301 could be higher Based
on 1x / month ~ 4.3

1-27-16
ASH conference call - Joint -
- Bremo - Draft sampling Plan will be
available today
Analytical - Both Bremo & Possum looking
at Having Pace LAB on-site
VERIP certification w/in 60 days -
- may have problem w/ Hg QL
Mobile LAB - w/ Pace's in
Equipment & Staff.
Possum - Sampling Plan - should complete
use of metal pond as Holding Pond -
- will use Brook sump when they get
to dewatering phase -
• TOE Drain - set up internal call ☐
- Set up call w/ Brandt & Susan - ☐

SUBJECT | DATE

1-27-16

Reporting Discussion w/ DEQ - Ash Projects
Weekly Data -

(1) electronically submit data -
(2) DEQ wants data summarized in a format that it can be uploaded to website -
(3) How to handle situations where end of month / beginning of month -
- calculations would be based on calendar month -
(4) DEQ wants a report that will put on web-site -
(5) Separate submission for each outfall (501-505)
(6) TOC Drain outfall 010 - DEQ might also put that data on the website as well -
(7) Consider setting up a website/page to get information out there
(8) Week to 2 weeks to get reporting - Fact Back - present < QL values -
How to do calculations if we report 0 = < QL specified for that parameter -
(9) 010 Data should come in as a attachment - to January DMR
(10) Bruno - submit proper Dars for all discharges for January -
(11) weekly submittal need to be submitted for week during which there

Brandon K - Allen Brandon Brayton
Don Kaise - Northern Dec
Ben Carver Susan M.
Tayer Ingen Emilee Johnson
Randy Montepeno Melissa
Owen Jay
Jeff Marcell Maria

☐ * - South River Science Team -
- picture of present system
- goal for

1-27-16

- DEQ Passen Point Discussion -

- Response to clarification -
- May DMR Reports NO Discharge
- inconsistency w/ DMR, & CER
  - Provide Detail Reinstat was Done -
  Type of interaction -
  ① How Drawdown was Done -
  ② Rationale for pumping to Pond -
  ③ If we Diverted other process flows from Pond & During test period -

DEQ inspection 5/13 -

Pay Particular Attention to CER language -
- 1st weekly Report due
  No Discharge from internal outfall from 1/14 →
DEQ going to PWC BOS MTG 2/9 -
  Retrof is Quarrie
* 5/13 inspection Report - DEQ -
  says Discharge stopped on 5/7 *

CCT Staff mtg
4/30 - 2016 objection in system
Lay out facts of Winstanton oil spill - ☐
Call DEQ re. walk thru of Treatability study ☐
  Boeing

1-28-16
Boeing Project call -
① Could have all of treatment system in place By the End of NEXT WEEK
② Looking @ Alternate Resins to use that will Reduce Potential for Toxicity -

Chloride is produced by the Resins - could increase Toxicity of Discharge

January OVERTIME 2016

SUBJECT | DATE

Amelia = 14.5
STEVE = 23.75
Oula = 22.50

1-9-16

316(b) TEAM

Budget - ENTRAINMENT costs are > expected
- HDR looking for opportunities to cut costs
will provide Recommendation to B.B
& Karen -
- Another Review meeting Begining of April
- Review impingement Data (1st year Data)
collection -
- Need for 2nd year?
- Need for improvements?
CCT to notify DEQ Re: Sturgeon?
- DEQ Review in March - Talk w/ CCT
- Jason setting up call to see who is going
to sign the contract.
* PEER REVIEW - Budget allowance 250K for
- peer Review - Budget
MSS - 50K 2016 / 200K 2017
others = 250K 2017
- NAPS - call yesterday -
- Tour Base w/ Jason Mackenzie Re:
putting water back from continent
samples
- follow-up w/ safety, outage:
Chesterfield Sturgeon -
Documentation plan for storage (Oula)

Possum Point Ash Pond Project
- manhole = 30' deep - Bringing in New
Submersible pumps - Existing pumps
won't pull water down to where
they can get in and work
- Site plan delivered to BWC yesterday
- Draft SWPP under Review -
-

SUBJECT DATE

Construction Compliance inspections - John McCutchin
- PRO will need to coordinate w/ HQ Rec
Outfall 050 -
- updated site map w/ description of
activity & timeframe
Draft Point - Ending February
Look @ Construction GP to make sure that
outfalls are numbered the same -
How to make sure that monitoring is
Being Done -
OVCR - Final closure occurs / After CAP -
- make notification/certification to DEQ
properly closed & capped (Solid waste
sign off) - Solid waste needs
to say that site has been closed -
- DEQ
- Construction/IGP Feedback
- SW monitoring would start 2nd
summer period.

2-11-2016
- Possum - 1st Plug installed.
Last night ~10:00 - inside -
As of this morning - Hering, let Dg
Sundown tonight will have other
end plugged -

[illegible]

« if wishes were Herrs we'd all Ride like Kings & M. Surface

SUBJECT | DATE

2-15-16

Possum Toe Drain update

- Plug installed in OUTFALL end of 010
- GROUNDWATER flowing around pipe collecting in a basin Below outfall - Being collected EVERY 6 hours (~1,500 gallons) by VAC truck.
- Pumps are Automatically pumping from upstream end to Pond D.
- STOP UP end of pipe - so there is No Discharge - Restore grade
- AT this TIME there is only one plug on the Downstream end -
- CAN clean out all of the sediment from pipe.
- GAI & Glover to finalize design for plugging - structural plug at end of pipe - Return area to grade Down disturbed -

Fill pipe w/ fill so we don't HAVE empty pipe under Road - Low permeability fill -

Probably a week to go before anything is due.

2-16-16

316(b) team meeting

- First Draft per Renkin = 2/19 comments by 2/26 Final due 3/21
- Call Bill Reed to discuss - contact - be REAR Gardner
- STEVE Jones to get Approval for funding
- NEXT WEEK - NAPS - meeting at station 2/23 -
  - installation 1st week of March - actual sampling 2nd week of March -
  - DEQ notification - talk w/ Corey

SUBJECT DATE

SET up a call w/DEP - talk about
By-pass / redistribution -

2-16-16

Possum Point ASH Pond Project

- TSD working to update SWPPP for
S107 & S108 -
- Grouting 72 inch pipe - workplan -
- Current water surface elevation in
Pond D = 110 msl ~ 158 MG
last survey = 109 = 749 MG
- SITE Plan - WAIVER Requests
• Key issue = show entire
project area as Being disturbed
• Concern that depending on type of
Ponds may not Be able to
TAKE credit for impervious
Surface
- Draft Sampling Plan later this week
easily next week
- Have identified everything for
flow-based sampling -

WET Pond or SW
management BMP

2-17-16

ASH Pond Coordination

VSMP for storage TANK AREA -
- Expect feedback from DEQ
By Thursday
- could throttle Back flows
until we get more storage
capacity in place -
- on-site testing should be up and
Running / Trial Runs 3/1 to
meet mail 9th -

SUBJECT | DATE

Treatment system -
- four major components were delivered
Last week - very close to
being able to run that unit -
Sampling Plan -
- North Pond level - 11" rise Jump -
February 16th - will take measurement
Today - E look @ predicted weather -
- [illegible]
Possum Point
- CER Addendum -
- Decanting / Dewatering Plan -
Fear Tank / Metal Pond
- Water Treatment System - 4 weeks
to put together -
- Analytical - final negotiation with
Pace -
- need to review and approve
Sampling Plan - expect to
have to us tomorrow -
OUTFALL 010
- Plan for grating pipe -
- Expect to complete by -
- start cleaning end of pipe
in pipe today - will take
~ 3 days -
- put plate over 72" line
@ end of pipe - manufacture
plate - Tuesday or
Wednesday next week or
put in place
- grating will take -

at 11" rise per week
would have ~ 3 months
till need to discharge -

2-17-16