JOYCE ENGINEERING

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November 5, 2014

Mr. Richard Doucette
Regional Director and Land Protection Manager
Virginia Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, Virginia 22193

Re: 2014 Corrective Action Site Evaluation (CASE) Report
Laurel Valley Center Sanitary Landfill - Permit No. 251
JOYCE Project No. 310.1501.03/Task No. 2

Dear Mr. Doucette:

On behalf of Culpeper County, Joyce Engineering is submitting the second *Corrective Action Site Evaluation* (CASE) for the Laurel Valley Center Sanitary Landfill as required by Module XIV.M.2 of Solid Waste Permit No. 251. A copy of this CASE will be placed in the public repository, located at the County's Office of Environmental Services. If you have any questions or concerns regarding this report, please contact me by phone at (804) 355-4520 or by e-mail at iwhitlock@joyceengineering.com.

Respectfully,
JOYCE ENGINEERING

Ian A. Whitlock, C.E.S.
Technical Consultant

Attachment

c: Paul E. Howard, Jr., Culpeper County
Larry W. Syverson, C.P.G., DEQ-CO
Geoff Christe, DEQ-CO

P:\Culpeper\Laurel Valley Center Sanitary Landfill\Groundwater\CASE\2014\2014 CASE Report\DEQ Submittal Files\2014 Cover, Letter, and Signature.docx

PREPARED FOR:

CULPEPER COUNTY
118 WEST DAVIS STREET, SUITE 101
CULPEPER, VIRGINIA 22701

LAUREL VALLEY CENTER SANITARY LANDFILL
PERMIT NUMBER 251

2014 CORRECTIVE ACTION SITE EVALUATION

NOVEMBER 2014

PREPARED BY:

JOYCE ENGINEERING

1604 OWNBY LANE
RICHMOND, VIRGINIA 23220
PHONE: 804.355.4520
FAX: 804.355.4282
JE PROJECT NO. 310.1501.03.2

2014 CORRECTIVE ACTION SITE EVALUATION
LAUREL VALLEY CENTER SANITARY LANDFILL
Permit No. 251

JOYCE ENGINEERING
Project No. 310.1501.03.04

This Corrective Action Site Evaluation was prepared in accordance with the requirements of Module XIV.M.2 of Solid Waste Permit No. 251 and generally accepted standards of environmental practice for the exclusive use of and reliance upon by the referenced client, for specific application to the referenced site. No other warranty is either expressed or implied.

Reuse and reliance of this document by other parties, or for purposes other than those specified, without written authorization, will be at the sole risk of the party or parties utilizing this document. Joyce Engineering shall incur no liability resulting from claims, damages, losses, and expenses that might arise from unauthorized use and reliance of this document.

Conclusions presented in this report are based upon a review of available information, results of our field studies, results of chemical analyses, and professional judgment. Our conclusions do not reflect variations in subsurface groundwater quality that might exist between or beyond sampling points or between specific sampling events.

To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

Ian A. Whitlock, C.E.S.
Technical Consultant

2014 Corrective Action Site Evaluation (CASE) Report Summary		
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY	**1**] DEQ Region: Northern	**2**] Date: 11-05-2014
	3] Solid Waste Permit Number: 251	
4] Facility Name: Laurel Valley Center Sanitary Landfill	**5**] Landfill Type: Sanitary	
6] Date of Groundwater Remedy Implementation (Permit Amendment Issuance): November 5, 2008		
7] Case Report Due Date: November 05, 2014	**8**] CASE Report Period: October 2011 – April 2014	
9] Was Public Repository copied on CASE submittal: Yes		
10] Name and location (City/Town) of Public Repository: Culpeper County Office of Environmental Services, Culpeper, Virginia.	**11**] Which groundwater CASE report submittal (circle one) is this? 1st 2nd 3rd 4th 5th 6th 7th Other	

Section A - Remedy/Plume behavior: Please use 'Y', 'N', 'NA' – not applicable, or 'P' – possibly, where needed. Any response of Y or P should be fully explained in the associated Appendix.	
12] List the anticipated MNA completion date presented in the original CAP submission?	2014 (for PPR)
13] Based on CASE period data, what is the current anticipated MNA completion date?	2026
14] Were there any performance problems or Operations and Maintenance issues associated with MNA components during CASE period?	N
15] (if yes to 14) Were these problems rectified during CASE period?	NA
16] Were GPS achieved in <u>all</u> portions of the plume during CASE period?	N
17] (if no to 16) List any MNA wells that did achieve the GPS during CASE period?	CLF-S1, CLF-S3, MW-X2, and MW-X2D
18] How many compliance wells continue to exceed GPS during CASE period?	4
19] Did any formally 'clean' Compliance wells exceed GPS during this CASE period?	N
20] Compared to previous data, did GW quality improve in at least some of the Performance wells during CASE Period?	Y
21] Compared to previous data, did the GW quality improve in at least some of the Sentinel wells during CASE Period?	P
22] Was there any evidence of lateral or vertical plume expansion during CASE Period?	Y
23] (if yes to 22) Were any new wells to address expansion installed during CASE Period?	Y
24] Are there any MNA wells screened below the base of the GPS exceeding areas of the plume?	Y
25] Are there clean sentinel wells (i.e., no GPS exceedances) located at the edge of the plume?	Y
26] Was remedy protective of human health and environment during the entire CASE Period?	Y
27] Was there a remedy component in place to control source of the release during CASE Period?	P
28] Did any MNA wells exceed MCL-based GPS during the CASE period?	Y
29] Did any MNA wells exceed BKG-based GPS during the CASE period?	Y

30] Did any MNA exceed ACL-based GPS during the CASE period?	Y
31] Are there performance wells located downgradient from each exceeding Compliance well?	Y
32] Was surface water sampling part of the MNA remedy?	N
33] Did surface water sampling results show concentrations in excess of GPS in surface water?	NA
Section B - Groundwater Sampling: Please use 'Y', 'N', 'NA' – not applicable, or 'P' – possibly, where needed. Any response of Y or P should be fully explained in the associated Appendix.	
34] Were all Permit-listed MNA network wells sampled during CASE period?	Y
35] If not, list the wells which could not be sampled:	NA
36] List the reason for the non-sampling during CASE period:	NA
37] Other than issues noted above, were all Corrective Action related wells sampled at the required quarterly or semi-annual frequency outlined in Module XIV during CASE period?	Y
38] (if no to 37) List the reason for the non-frequency sampling.	NA
39] Were all MNA related wells sampled for the required constituents of Module XIV during CASE period?	Y
40] (if no to 39) List the reason for the non-sampling of Permit required constituents.	NA
41] Were all analysis during CASE period conducted by VELAP certified facilities?	Y
42] Did analytical results support biological destruction of the waste mass during the CASE period based on changes in downgradient parent/daughter ratios?	Y
43] Did results of MNA performance parameter sampling support biologic destruction of water mass based on changes in electron receptors/donors within the plume of contamination?	Y
44] Are copies of all sampling event analytical results obtained during the CASE Period attached as an Appendix in CDROM format?	Y
Section C - Risk Exposure Factors: Please use 'Y', 'N', 'NA' – not applicable, or 'P' – possibly, where needed. Any response of Y or P should be fully explained in the associated Appendix.	
45] Does owner/operator legally own/control all areas currently underlain by landfill contaminated groundwater (i.e., those portions of the plume that exceed GPS)?	Y
46] (if no to 45) Provide the name of current ownership:	NA
47] Was there any potential for exposure of humans or environmental receptors to contaminated groundwater during the CASE Period?	N
48] Was there any change in adjacent property land-use during the CASE Period which could change the potential exposure risks previously defined during remedy selection?	N
49] Are source area containment components in place to prevent exposure and minimize future releases?	Y
50] Was there any remedy related site activity which created a short term exposure risk to workers or the environment during the CASE period?	N
51] Is there any potential for vapor intrusion issues above the landfill contaminant plume?	Y (See Appendix C)
52] Is groundwater currently used (or potentially used) on site for any reason?	Y (See Appendix C)
53] Is groundwater currently or potentially used as a potable water source in the landfill area?	N
54] (if needed) Is there an alternate drinking water supply in the vicinity of the landfill?	Y
55] Is there evidence of (or potential for) groundwater plume discharge to surface waters on site or adjacent properties?	P
Section D - Interpretation of Analytical Results: Please use 'Y', 'N', 'NA' – not applicable, or 'P' – possibly, where needed. Any response of Y or P should be fully explained in the associated Appendix.	

56] What statistical method was used to assess groundwater trends during CASE Period?	Mann-Kendall, Spearman, Sen's Slope Analysis
57] Was prior CASE period data pooled with current CASE data to develop the time series plots?	Y
58] Were any unusual statistical problems noted (i.e. outliers)?	N
59] Were time series plots provided individually for all GPS exceeding constituents in each MW they were identified in during the CASE period?	Y
60] When looking solely at Sentinel well data during the CASE period, did any constituents show upward trending concentration behavior (if so, list constituent(s) on the line below)?	N
61] When looking solely at Performance well data during the CASE period, did any constituents show upward trending concentration behavior (if so, list constituent(s) on the line below)?	N
62] When looking solely at Compliance well data during the CASE period, did any constituents show upward trending concentration behavior (if so, list constituent(s) on the line below)?	N
63] Do the down plume changes in stoichiometric Parent/Daughter ratios confirm breakdown of contaminant mass?	Y
64] Do the results of EPA MNA performance parameter sampling (i.e., redox potential, DO, manganese (II), iron (II), sulfate, methane, etc.) and electron donors vs acceptors document biological breakdown of contaminant mass?	Y
Section E – Future Actions: Please use 'Y', 'N', 'NA' – not applicable, or 'P' – possibly, where needed. Any response of Y or P should be fully explained in the associated Appendix.	
65] Based on the data acquired during this CASE period, and reviewed in context of data collected during previous CASE periods, does the implemented remedy have the ability to achieve all GPS within a reasonable timeframe?	Y
66] (if no to 65) Is Interim Measure use justifiable on site?	NA
67] (if no to 65 and 66) Is Alternate Remedy application justified on site (if yes, list remedy type on line below)?	NA
68] Is the Alternate Remedy discussed in detail in the current CAP?	Y
69] (if no to 65-67) Will owner/operator be submitting a technically infeasible demonstration (as defined in the VSWMR) to the Director?	NA
70] Are there any other actions planned for the site during the upcoming CASE period not currently covered by the existing CAP?	N
Attachments. The following attachments must be included in the CASE in the order prescribed	
Attachment I: Site Identified on a USGS 7 1/2-minute Topographic Map: Drawing 1	
Attachment II: Property Map(s): Drawing 2	
Attachment III: Aerial Photograph(s): Drawing 2	
Attachment IV: GW flow rate calculations (based on most recent CASE period sampling event)	
Attachment V: Potentiometric Surface Map, scaled to fit a size no larger than 11" x 17", based on the most recent CASE period sampling event: Drawing 3	

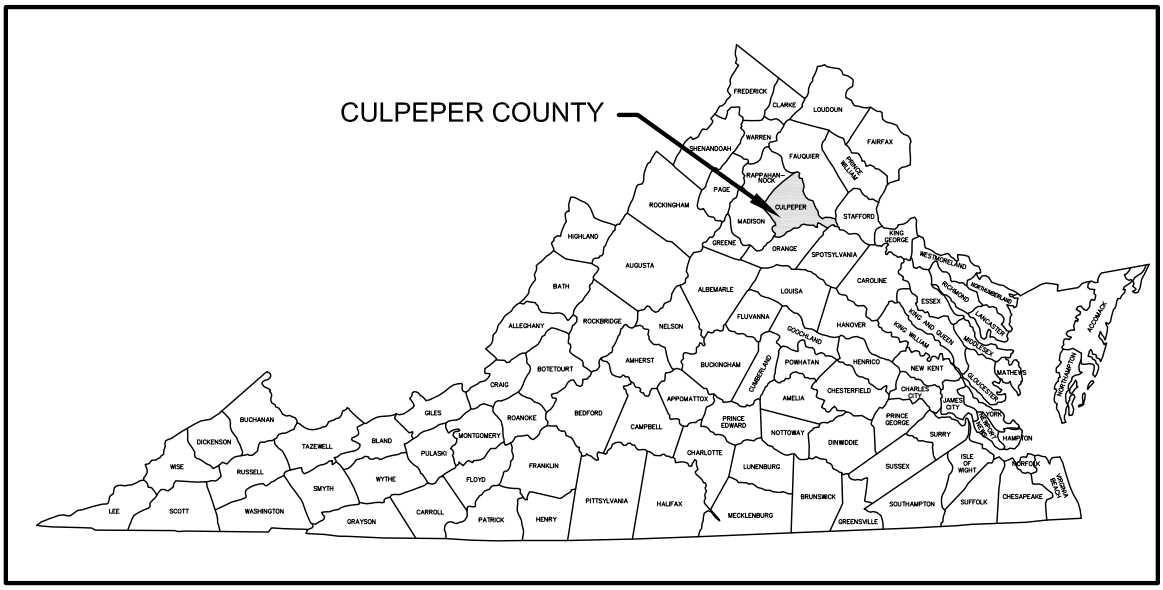
Attachment VI: Table of constituents exceeding GPS, listed for each well, based on all available sampling data obtained post remedy implementation
Attachment VII: Vertical and Horizontal Plume maps provided for each GPS exceeding constituent on site (wherever possible – sized to fit on an 11" x 17" sheet)
Attachment VIII: Statistical Analysis and Time Series Data Plots for each GPS exceeding constituent identified within individual wells sampled during the CASE period
Attachment IX: Complete Laboratory Analytical Reports (including Verification events) for each sampling event during the CASE period
Attachment X: Chain of Custody and Field book documentation (including Verification events) for each sampling event during the CASE period
Note: Attachments VII, VIII, and IX may be submitted in electronic format on CD.
Appendices. The following should be included as needed following the instructions in the SI
Appendix A - Remedy/Plume behavior, Detailed Discussion
Appendix B - Groundwater Sampling, Detailed Discussion
Appendix C - Risk Exposure Factors
Appendix D - Interpretation of Analytical Results, Detailed Discussion
Appendix E - Future Actions
Responsible Official Signature:
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.

Name: Ian A. Whitlock	Title: Technical Consultant
Signature: 	Date: 11/05/14

Attachment I:

Site Identified on a USGS 7 1/2-minute Topographic Map:

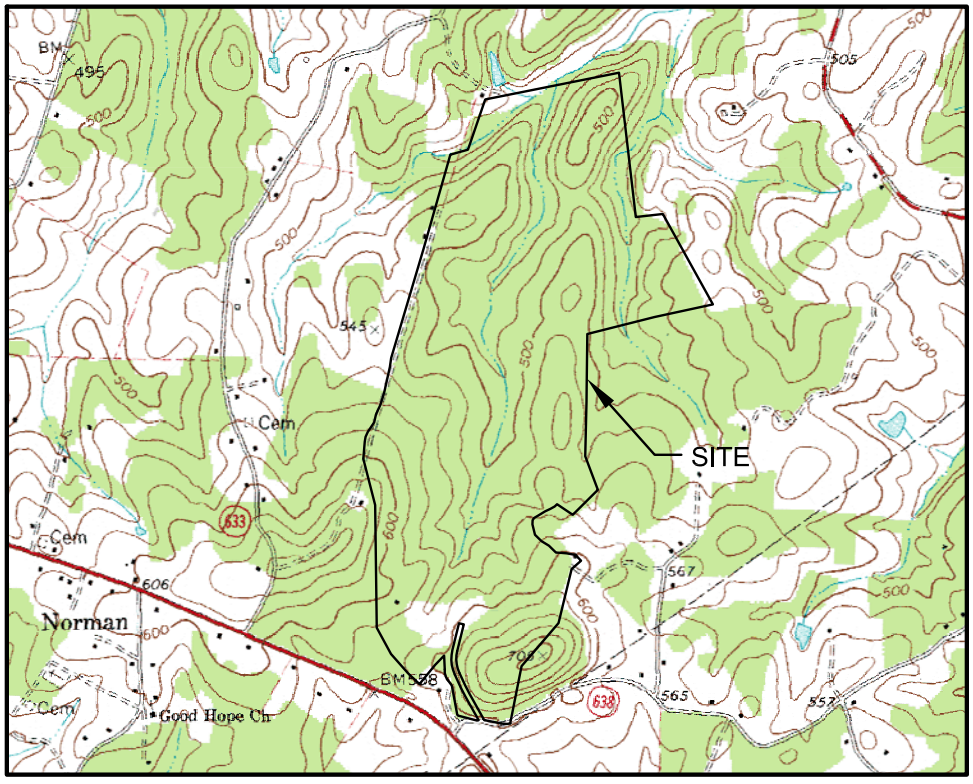
Drawing 1: Site Location Map



VIRGINIA

COUNTY LOCATION MAP

N.T.S.



USGS MAP SOURCE
7.5 MIN. QUADRANGLES:
CASTLETON, VA.
PHOTOINSPECTED 1984

VICINITY MAP

1"=2,000'

GRAPHIC SCALE

0 1,000 2,000 4,000

(FEET)

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

SITE LOCATION MAP
PERMIT NO. 251

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 2/20/14

SCALE
AS SHOWN

PROJECT NO.
310.1401.03.01

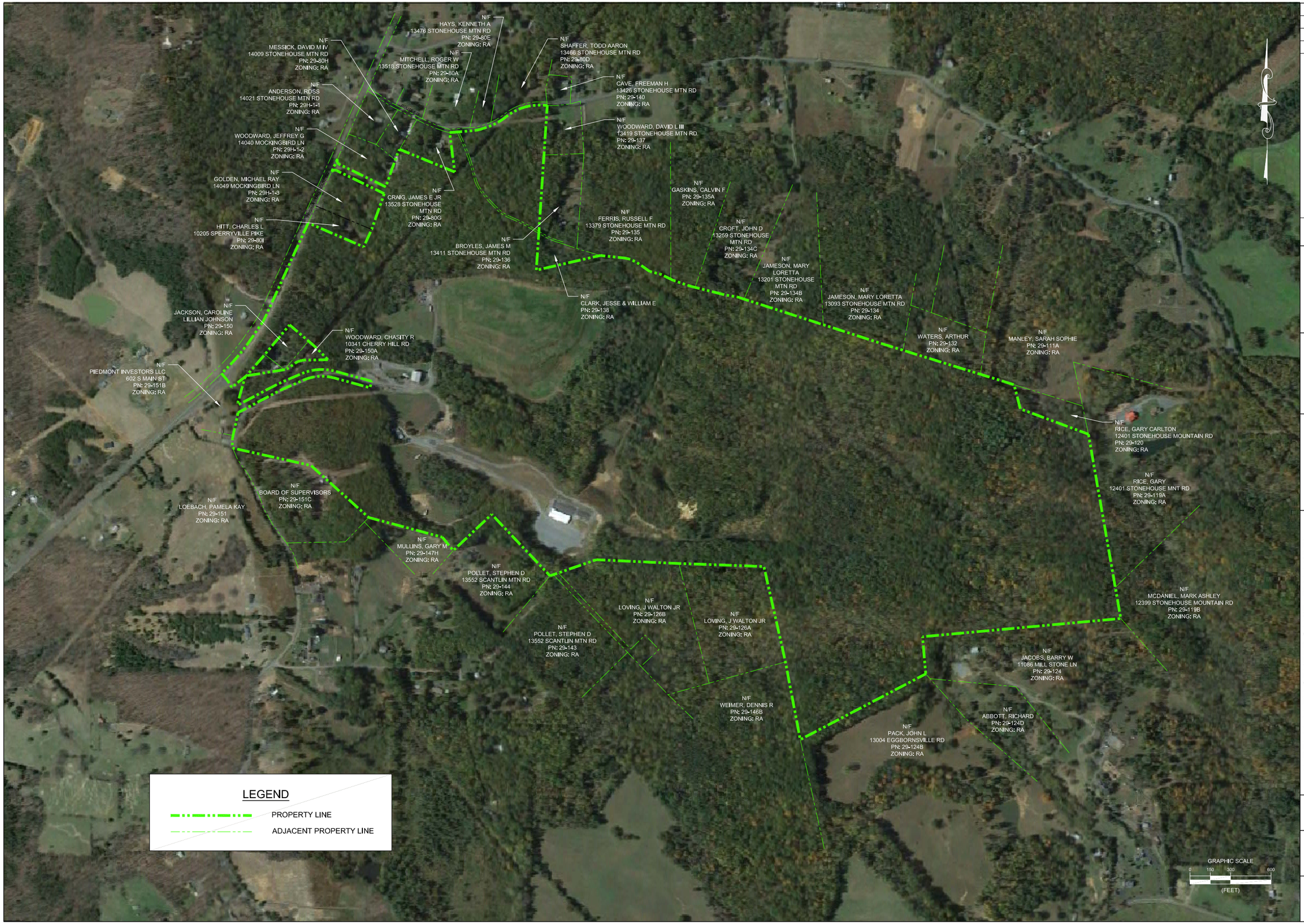
DRAWING NO.
1

N:\DWGS\CULPEPER\H2O-PLAN\2013\, Site Location Map.dwg

Attachment II:

Property Map(s):

Drawing 2: Property Map on Aerial Photograph



NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPPER COUNTY, VIRGINIA

PROPERTY MAP

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
2

N:\DWGS\CULPEPER\CASE\2014\02-Property Map.dwg Layout=2 Property Map

Attachment III:

Aerial Photograph(s):

See Attachment II

Attachment IV:
GW flow rate calculations (based on most recent CASE period sampling event)

GW Flow Rate Calculations Table – April 2014

Attachment IV

Groundwater Flow Rate Calculations

First Semi-Annual 2014 Monitoring Event

Laurel Valley Center Sanitary Landfill

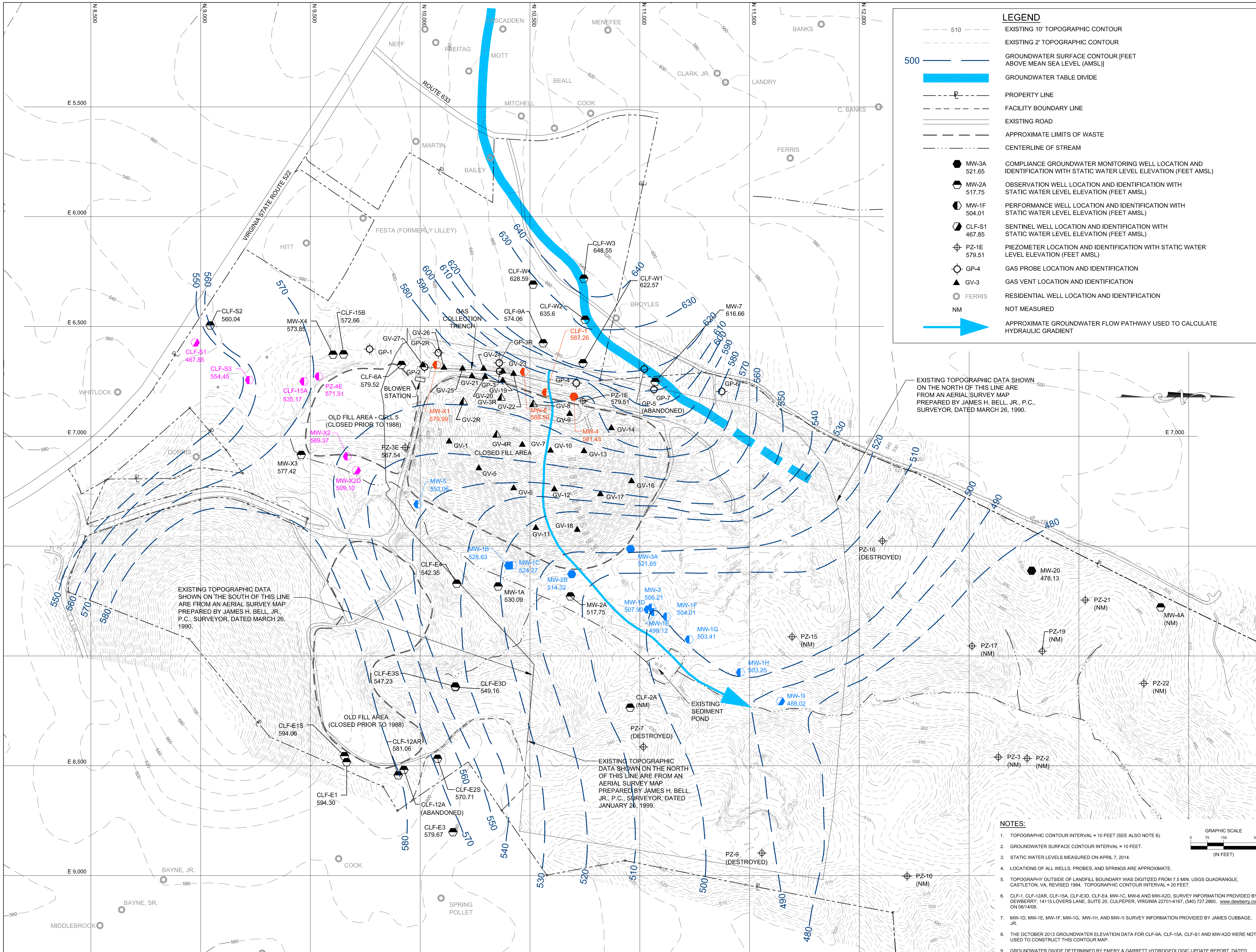
Permit No. 251

Hydraulic Conductivity (k, cm/s)	Hydraulic Conductivity (k, ft/day)	Countour Lines (feet amsl)	Flow Length (feet)	Gradient (i) (foot/foot)	Effective Porosity (unitless)	Estimated Groundwater Velocity	
						(cm/s)	(feet/year)
3.93E-04	1.11E+00	600 - 490	1981	5.6E-02	0.35	6.23E-05	65

Notes: amsl = Above mean sea level
cm/s = Centimeter per second

Attachment V:
Potentiometric Surface Map, scaled to fit a size no larger than 11" x 17", based on the most recent CASE period sampling event:

Drawing 3: Groundwater Surface Contour Map – April 7, 2014



LEGEND

- 510 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- 500 — GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A 521.65 — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- MW-2A 517.75 — OBSERVATION WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- MW-1F 504.01 — PERFORMANCE WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- CLF-S1 467.85 — SENTINEL WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- PZ-1E 579.51 — PIEZOMETER LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GP-4 — GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — GAS VENT LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION
- NM — NOT MEASURED
- APPROXIMATE GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 10 FEET (SEE ALSO NOTE 6).
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 10 FEET.
3. STATIC WATER LEVELS MEASURED ON APRIL 7, 2014.
4. LOCATIONS OF ALL WELLS, PROBES, AND SPRINGS ARE APPROXIMATE.
5. TOPOGRAPHY OUTSIDE OF LANDFILL BOUNDARY WAS DIGITIZED FROM 7.5 MIN. USGS QUADRANGLE, CASTLETON, VA, REVISED 1984. TOPOGRAPHIC CONTOUR INTERVAL = 20 FEET.
6. CLF-1, CLF-12AR, CLF-15A, CLF-E3D, CLF-E4, MW-1C, MW-6 AND MW-X2D, SURVEY INFORMATION PROVIDED BY DEWBERRY, 14115 LOVERS LANE, SUITE 20, CULPEPER, VIRGINIA 22701-4167, (540) 727.2860, www.dewberry.com, ON 08/14/08.
7. MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, AND MW-1I SURVEY INFORMATION PROVIDED BY JAMES CUBBAGE, JR.
8. THE OCTOBER 2013 GROUNDWATER ELEVATION DATA FOR CLF-9A, CLF-15A, CLF-S1 AND MW-X2D WERE NOT USED TO CONSTRUCT THIS CONTOUR MAP.
9. GROUNDWATER DIVIDE DETERMINED BY EMERY & GARRETT HYDROGEOLOGIC UPDATE REPORT, DATED JULY 2003.

GRAPHIC SCALE
0 75 150 300
(IN FEET)

NO	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE
				SECOND SEMI-ANNUAL 2013 GROUNDWATER MONITORING REPORT	

DESIGNED MAH
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 06/27/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

GROUNDWATER SURFACE CONTOUR MAP
APRIL 7, 2014
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
3

N:\DWGS\CULPEPER\CASE\2014\03-1st SEMI ANN.dwg Layout=3 Groundwater Surface

Attachment VI:
Table of constituents exceeding GPS, listed for each well, based on all available sampling data obtained post remedy implementation

Constituents Exceeding GPS

Attachment VI

Summary of Historical Groundwater Protection Standard Exceedances
Laurel Valley Center Sanitary Landfill
VSWMR Permit No. 251

Analyte	Sample Collection Date	EPA Method	DL	QL	MW-1A	MW-1B	MW-1C	MW-1D	MW-1E	MW-1F	MW-1G	MW-1H	MW-1I	MW-X1	MW-2A	MW-2B	MW-X2	MW-X2D	MW-3	MW-3A	MW-4	MW-4A	MW-5	MW-6	MW-7	MW-20	CLF-1	CLF-2A	CLF-5A	CLF-9A	CLF-12A	CLF-12AR	CLF-15A	CLF-15B	CLF-W1	CLF-W2	CLF-W3	CLF-W4	CLF-S1	CLF-S2	CLF-S3	CLF-E1	CLF-E1S	CLF-E2S	CLF-E3	CLF-E3S	CLF-E3D	CLF-E4	PZ-4E	Pollet PRE	Field Blank	Equipment Blank	Trip Blank	Method Blank	Instrument Blank
INORGANICS																																																							
Cobalt	05/04/01	---	5.34	17.8	---	ND	---	---	---	---	---	---	---	---	---	12.1 J	---	---	---	290	6.22 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	ND
GPS=939 (ACL)	12/19/01	---	2	10	---	10	---	---	---	---	---	---	---	---	---	19	---	---	---	253	25	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	02/07/02	---	5	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	06/27/02	---	2	10	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---	---	---	6 J	37	---	---	---	---	---	---	---	---	---	---	---	ND
	11/05/02	---	2	10	---	4 J	---	---	---	---	---	---	---	---	---	20	---	---	---	130	90	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	ND	---
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	07/22/03	---	2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	4 J	---	---	---	ND	---	---	---	ND	ND	---	ND	---
	11/19/03	---	2	10	---	4 J	---	---	---	---	---	---	---	---	---	21	---	---	---	160	9 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	2	10	---	5 J	---	---	---	---	---	---	---	---	---	25	---	---	---	200	11	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	11/03/04	---	2	10	---	5 J	---	---	---	---	---	---	---	---	---	25	---	---	---	160	6 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	05/04-05/05	---	2	10	---	5 J	---	---	---	---	---	---	---	---	---	26	---	---	---	100	5 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	11/15/05	---	2	20	---	6 J	---	---	---	---	---	---	---	---	---	20	---	---	---	180	6 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	05/16/06	---	2	10	---	6 J	---	---	---	---	---	---	---	---	---	32	---	---	---	121	7 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	11/28/06	---	2	10	---	6 J	---	---	---	---	---	---	---	---	---	36	---	---	---	109	9 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
* GPS Revised 5/8/07	05/08/07	---	2	10	---	6 J	---	---	---	---	---	---	---	---	---	36	---	---	---	151	8 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
GPS = 156.5 (ACL)	11/27/07	---	2.0	10.0	---	8.5 J	---	---	---	---	---	---	---	---	---	20.2	---	---	---	414 (422)	9.0 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	03/05/08	---	2.0	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	149	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/07/08	---	2.0	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	54.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/12/08	---	2.0	10.0	---	5.5 J	---	---	---	---	---	---	---	---	---	39.2	---	---	---	109	6.3 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	12/2-4/08	---	2.0	10.0	---	5.7 J	10.2	---	---	---	---	---	---	---	---	36.3	---	---	---	241 (54.7)	6.5 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND(ND)	ND	---	ND	---
GPS Revised 8/20/09	6/9-11/09	---	2.0	4.0	---	5.7	---	---	---	---	---	---	---	---	---	44.6	---	---	---	42.8	7.8	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
GPS = 26 (BG)	12/2-4/09	---	2.0	4.0	---	6.6	---	---	---	---	---	---	---	---	---	49.6	---	---	---	72.5	15.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	6/8-11/10	---	2.0	4.0	---	6.7	---	---	--- (8.1)	---	--- (8.1)	---	---	---	---	44.2	---	---	---	--- (4.3)	3.3 J	19.1	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- (ND)	ND (ND)	---	--- (ND)	---
	11/30-12/3/10	---	2.0	4.0	---	9.4	---	---	--- (8.3)	---	--- (ND)	---	---	---	---	59.2	---	---	---	240	14.3	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (ND)	ND (ND)	---	ND	---
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	10/05/11	6010C	2.0	4.0	---	9.9	2.9 J	8	ND	ND	5.2	---	---	41.3	---	67.9	---	---	23.1	54.3	189 (11.6)	---	ND	33.1	---	ND	77.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	04/19/12	6010C	2.0	4.0	---	12.3	8.4	11.1	ND	ND	ND	---	---	95.2	---	49.8	---	---	9.22	46.7	11.4	---	8.8	36.7	---	ND	43.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
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	10/3-4/12	6010C	2.0	4.0	---	25.4	10.4	11.9	ND	ND	ND	ND	ND	94.9	---	22.6	---	---	ND	391	11.8	---	ND	40.1	---	ND	63.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	4/16-17/2013	6010C	2.0	4.0	---	9.6	16.6	13.0	ND	ND	ND	ND	ND	90.9	---	31.7	---	---	7.4	19.3	9.4	---	ND	---	---	ND	67.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	10/15/13	6010C	2.0	4.0	---	11.8	22.8	12.0	ND	ND	ND	ND	ND	107	---	19.9	---	---	2.5 J	2.7 J	18.7	---	ND	99.8	---	ND	55.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
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	4/16-17/2013	7470A	0.2	0.2	---	ND	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/13	7470A	0.2	0.2	---	ND	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/08/14	7470A	0.2	0.2	---	ND	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Attachment VI

Summary of Historical Groundwater Protection Standard Exceedances
Laurel Valley Center Sanitary Landfill
VSWMR Permit No. 251

Analyte	Sample Collection Date	EPA Method	DL	QL	MW-1A	MW-1B	MW-1C	MW-1D	MW-1E	MW-1F	MW-1G	MW-1H	MW-1I	MW-X1	MW-2A	MW-2B	MW-X2	MW-X2D
ORGANIC		---																
Benzene	03/26/01	---	0.20	0.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GPS=5 (MCL)	05/04/01	---	0.20	1	---	1.11	---	---	---	---	---	---	---	---	---	2.01	---	---
	12/19/01	---	0.10	0.5	---	1.0	---	---	---	---	---	---	---	---	---	1.6	---	---
	02/07/02	---	0.1	2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.1	1.0	---	1.3	---	---	---	---	---	---	---	---	---	1.6	---	---
	06/27/02	---	0.1	1.0	1.9	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.1	0.5	---	0.7	---	---	---	---	---	---	---	---	---	1.6	---	---
	01/21/03	---	0.1	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.2	1.0	---	1.5	---	---	---	---	---	---	---	---	---	1.7	---	---
	07/22/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.2	1.0	---	2.1	---	---	---	---	---	---	---	---	---	1.7	---	---
	12/18/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.2	1.0	---	1.8	---	---	---	---	---	---	---	---	---	1.4	---	---
	11/03/04	---	0.2	1.0	---	2.1	---	---	---	---	---	---	---	---	---	1.6	---	---
	11/03-04/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.2	1.0	---	2.4	---	---	---	---	---	---	---	---	---	1.3	---	---
	11/15/05	---	0.2	1.0	---	2.6	---	---	---	---	---	---	---	---	---	1.3	---	---
	05/16/06	---	0.2	1.0	---	2.5	---	---	---	---	---	---	---	---	---	1.2	---	---
	11/28/06	---	0.2	1.0	---	2.4	---	---	---	---	---	---	---	---	---	1.1	---	---
	05/08/07	---	0.2	1.0	---	2.8	---	---	---	---	---	---	---	---	---	1.2	---	---
	11/27/07	---	0.2	1.0	---	2.6	---	---	---	---	---	---	---	---	---	1.1	---	---
	06/12/08	---	0.2	1.0	---	2.3	---	---	---	---	---	---	---	---	---	1.1	---	---
	12/2-4/08	---	0.2	1.0	---	2.4	1.0 J	---	---	---	---	---	---	1.0 J	1.7	1.1	ND	ND
	03/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	6/9-11/09	---	0.2	1.0	---	2.5	1.3	---	---	---	---	---	---	4.3	2.7	1.2	ND	ND
	09/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	12/2-4/09	---	0.2	1.0	---	2.4	1.3	---	---	---	---	---	---	3.2	2.9	1.3	ND	ND
	3/9-10/10	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	6/8-11/10	---	0.2	1.0	---	1.9 B	1.3 B	--- (1.0 J)	---	---	---	---	---	0.4 B	2.5	1.2 B	ND	---
	11/30-12/3/10	---	0.2	1.0	---	2.0	1.0	1.4	0.9 J	---	---	---	---	0.7 J	---	1.1	ND	ND
	5/3-5/11	---	0.2	1.0	---	1.9	1.0	1.1	0.4 J	2.1	---	---	---	ND	---	1.1	ND	ND
	06/22/11	---	0.2	1.0	---	---	---	---	---	2.1	---	---	---	---	---	---	---	---
	10/05/11	8260B	0.2	1.0	---	1.6	0.8 J	1.3	1.8	0.5 J	ND	---	---	0.8 J	---	1.4	ND	ND
	04/19/12	8260B	0.2	1.0	---	1.3	1.0 J	1.0 J	0.9 J	0.2 J	0.8 J	---	---	1.4	---	1.2	ND	ND
	06/18/12	8260B	0.2	1.0	---	---	---	---	---	---	---	1.1	---	---	---	---	---	---
	10/3-4/12	8260B	0.2	1.0	---	1.7	1.0	1.5	0.5 J	ND	1.3	0.9 J	ND	1.8	---	1.3	ND	ND
	4/16-17/2013	8260B	0.20	1.00	---	1.73	1.06	1.02	0.73 J	ND	ND	0.22 J	ND	0.98 J	---	1.54	0.21 J	ND
	10/15/13	8260B	0.20	1.00	---	1.31	0.98 J	1.02	ND	ND	ND	ND	ND	ND	---	1.57	ND	ND
	04/08/14	8260B	0.20	1.00	---	1.54	1.04	0.88 J	0.31 J	ND	0.25 J	ND	ND	1.02	---	1.61	ND	ND
1,1-Dichloroethane	03/26/01	---	0.54	1.78	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GPS=301 (ACL)	05/04/01	---	0.54	1	---	6.54	---	---	---	---	---	---	---	---	---	5.38	---	---
	12/19/01	---	0.1	0.5	---	11.8	---	---	---	---	---	---	---	---	---	8.3	---	---
	02/07/02	---	0.1	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.1	1.0	---	14.9	---	---	---	---	---	---	---	---	---	ND	---	---
	06/27/02	---	0.1	1.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.1	0.5	---	7.9	---	---	---	---	---	---	---	---	---	6.8	---	---
	01/21/03	---	0.1	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.2	1.0	---	13	---	---	---	---	---	---	---	---	---	8.2	---	---
	07/22/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.2	1.0	---	15	---	---	---	---	---	---	---	---	---	9.0	---	---
	12/18/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.2	1.0	---	12	---	---	---	---	---	---	---	---	---	8.4	---	---
	11/03/04	---	0.2	1.0	---	12	---	---	---	---	---	---	---	---	---	8.6	---	---
	11/03-04/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.2	1.0	---	14	---	---	---	---	---	---	---	---	---	8.6	---	---
	11/15/05	---	0.2	1.0	---	14	---	---	---	---	---	---	---	---	---	8.1	---	---
	05/16/06	---	0.2	1.0	---	15	---	---	---	---	---	---	---	---	---	7.5	---	---
	11/28/06	---	0.2	1.0	---	13.3	---	---	---	---	---	---	---	---	---	6.9	---	---
* GPS Revised 5/8/07	05/08/07	---	0.2	1.0	---	16.8	---	---	---	---	---	---	---	---	---	7.8	---	---
GPS = 327 (ACL)	11/27/07	---	0.2	1.0	---	15.9	---	---	---	---	---	---	---	---	---	7.5	---	---
	06/12/08	---	0.2	1.0	---	14.4	---	---	---	---	---	---	---	---	---	7.4	---	---
	12/2-4/08	---	0.2	1.0	---	14.7	15.9	---	---	---	---	---	---	0.4 J	1.4	6.5	0.3 J	ND
GPS Revised 1/27/09	03/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
GPS = 1.88 (ACL)	6/9-11/09	---	0.2	1.0	---	13.7	21.2	---	---	---	---	---	---	0.3 J	2.2 (1.8)	7.1	1.1	ND
	09/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	1.2	---
	12/2-4/09	---	0.2	1.0	---	13.4	21.5	---	---	---	---	---	---	0.3 J	0.8 J	6.7	ND	ND
	3/9-10/10	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	6/8-11/10	---	0.2	1.0	---	10.8	22.8	--- (3.8)	---	---	---	---	---	ND	1.5	6.0	ND	---
GPS Revised 3/1/11	11/30-12/3/10	---	0.2	1.0	---	11.6	20.3	4.3	4.3 (4.7)	---	---	---	---	ND	---	5.9	ND	ND
GPS = 2.42 (ACL)	5/3-5/11	---	0.2	1.0	---	12.3	22.9	4.2	5.2	6.8	---	---	---	ND	---	5.7	ND	ND
	06/22/11	---	0.2	1.0	---	---	---	---	---	6.8	---	---	---	---	---	---	---	---
	10/05/11	8260B	0.2	1.0	---	9.7	19.7	3.5	6.2	5.8	2.7	---	---	ND	---	4.8	ND	ND
	04/19/12	8260B	0.2	1.0	---	8.2	20.1	2.8	5.6	4.1	4.4	---	---	ND	---	5.0	0.3 J	ND
	06/18/12	8260B	0.2	1.0	---	---	---	---	---	---	---	4.3 (5.2)	---	---	---	---	---	---
	10/3-4/12	8260B	0.2	1.0	---	13.5	21.5	3.2	5.1	3.9	4.9	4.5	ND	ND	---	5.9	ND	ND
GPS Revised 7/1/13	4/16-17/2013	8260B	0.20	1.00	---	12.5	21.8	2.39	4.35	3.58	4.61	3.96	ND	ND	---	4.35	ND	ND
GPS = 2.4 (ACL)	10/15/13	8260B	0.20	1.00	---	10.1	19.5	2.44	4.06	3.10	4.23	2.72	ND	ND	---	4.24	ND	ND
	04/08/14	8260B	0.20	1.00	---	10.4	21.6	2.05	3.60	3.11	3.65	3.71	0.23 J	ND	---	4.49	ND	ND
Methylene chloride	03/26/01	---	0.39	1.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dichloromethane	05/04/01	---	0.39	1	---	1.94 B	---	---	---	---	---	---	---	---	---	2.13 B	---	---
GPS=5 (MCL)	12/19/01	---	0.4	0.5	---	3.2 B	---	---	---	---	---	---	---	---	---	1.7 B	---	---
	02/07/02	---	0.4	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.4	1.0	---	1.5 B	---	---	---	---	---	---	---	---	---	0.8 B	---	---
	06/27/02	---	0.4	1.0	0.4 B	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.4	0.5	---	1.2 B	---	---	---	---	---	---	---	---	---	1.0 B	---	---
	01/21/03	---	0.4	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.3	1.0	---	1.4	---	---	---	---	---	---	---	---	---	1.0	---	---
	07/22/03	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---	---
	12/18/03	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.3	1.0	---	1.3 B	---	---	---	---	---	---	---	---	---	1.4 B	---	---
	11/03/04	---	0.3	1.0	---	1.1 B	---	---	---	---	---	---	---	---	---	1.2 B	---	---
	11/03-04/04	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.3	1.0	---	1.3 B	---	---	---	---	---	---	---	---	---	0.9 B	---	---
	11/15/05	---	1.0	4.0	---	1.7 B	---	---	---	---	---	---	---	---	---	ND	---	---
	05/16/06	---	1.0	4.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---	---
	11/28/06	---	1.0	4.0	---	1.2 J	---	---	---	---	---	---	---	---	---	ND	---	---
	05/08/07	---	1.0	4.0	---	1.6 J	---	---	---	---	---	---	---	---	---	1.1 J	---	---
	11/27/07	---	1.0	4.0	---	1.3 J	---	---	---	---	---	---	---	---	---	ND	---	---
	06/12/08	---	1.0	4.0	---	1.0 J	---	---	---	---	---	---	---	---	---	ND	---	---
	12/2-4/08	---	1.0	4.0	---	ND	1.8 J	---	---	---	---	---	---	ND	ND	ND	ND	ND
	03/10/09	---	1.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	6/9-11/09	---	1.0	4.0	---	ND	1.2 J	---	---	---	---	---	---	ND	ND	ND	ND	ND
	09/10/09	---	1.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	12/2-4/09	---	1.0	4.0	---	ND	1.1 J	---	---	---	---	---	---	ND	ND	ND	ND	ND
	3/9-10/10	---	1.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	6/8-11/10	---	1.0	4.0	---	ND	1.1 J	--- (ND)	---	---	---	---	---	ND	ND	ND	ND	---
	11/30-12/3/10	---	1.0	4.0	---	ND	ND	ND	ND	---	---	---	---	ND	---	ND	ND	ND
	5/3-5/11	---	1.0	4.0	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND	ND	ND
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	8260B	1.0	4.0	---	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	ND	ND
	04/19/12	8260B	1.0	4.0	---	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	ND	ND
	06/18/12	8260B	1.0	4.0	---	---	---	---	---	---	---	ND	---	---	---	---	---	---
	10/3-4/12	8260B	1.0	4.0	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
	4/16-17/2013	8260B	1.00	4.00	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
	10/15/13	8260B	1.00	4.00	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
	04/08/14	8260B	1.00	4.00	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND

Analyte	Sample Collection Date	MW-3	MW-3A	MW-4	MW-4A	MW-5	MW-6	MW-7	MW-20	CLF-1	CLF-2A	CLF-6A	CLF-9A	CLF-12A	CLF-12AR	CLF-15A	CLF-15B	CLF-W1
ORGANIC																		
Benzene	03/26/01	---	---	---	---	---	---	---	---	11.77	---	---	---	---	---	---	---	---
GPS=5 (MCL)	05/04/01	---	ND	23.94	---	---	6.81	---	ND	---	---	---	---	---	---	---	---	---
	12/19/01	---	1.8	12.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	ND	ND	ND	1.4 J	---	0.4 J	---	---
	05/15/02	---	0.1 J	16.4 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND
	11/05/02	---	0.3 J	11	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	ND	10	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	0.6 J	---	0.6 J	---	---
	11/19/03	---	ND	12	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	0.3 J	---	0.5 J	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	0.4 J	---	0.5 J	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	0.5 J	---	0.5 J	---	---
	05/13/04	---	ND	4.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03/04	---	ND	1.6	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	0.4 J	---	ND	---	---
	05/04-05/05	---	ND	1.4	---	---	---	---	ND	---	---	---	---	0.3 J	---	ND	---	---
	11/15/05	---	0.2 J	2.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	05/16/06	---	ND	2.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/28/06	---	ND	2.9	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	05/08/07	---	ND	4.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/27/07	---	2.7	5.3 (5.1)	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/12/08	---	ND	5.8	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/2-4/08	---	1.0	5.6	---	0.7 J	6.6	---	ND	5.0	---	---	---	---	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.7 J	ND	---	---
	6/9-11/09	---	ND	6.1	---	ND	4.7***	---	ND	3.2	---	---	---	---	0.7 J	ND	---	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.6 J	ND	---	---
	12/2-4/09	---	ND	5.4	---	ND	5.2	---	ND	2.5	---	---	---	---	0.6 J	ND	---	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.4 J	ND	---	---
	6/8-11/10	--- (ND)	ND	7.5	---	0.4 B	4.9	---	ND	3.6	---	---	---	---	0.4 B	ND	---	---
	11/30-12/3/10	ND	0.9 J	5.4	---	0.4 J	4.1	---	ND	4.9	---	---	---	---	0.5 J	ND	---	---
	5/3-5/11	ND	ND	5.0	---	ND	4.4	---	ND	4.7	---	---	---	---	0.2 J	ND	---	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3 J	---	---	---
	10/05/11	ND	ND	6.2	---	ND	4.2	---	ND	4.2	---	---	---	---	0.3 J	ND	---	---
	04/19/12	ND	ND	5.1	---	ND	4.3	---	ND	3.7	---	---	---	---	ND	ND	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	0.8 J	5.1	---	ND	4.5	---	ND	3.2	---	---	---	---	---	ND	---	---
	4/16-17/2013	ND	ND	3.95	---	ND	---	---	ND	3.45	---	---	---	---	---	ND	---	---
	10/15/13	ND	ND	4.01	---	ND	3.98	---	ND	4.64	---	---	---	---	---	ND	---	---
	04/08/14	ND	ND	3.32	---	ND	3.83	---	ND	4.05	---	---	---	---	---	ND	---	---
1,1-Dichloroethane	03/26/01	---	---	---	---	---	---	---	---	5.48	---	---	---	---	---	---	---	---
GPS=301 (ACL)	05/04/01	---	ND	9.05	---	---	21.73	---	ND	---	---	---	---	---	---	---	---	---
	12/19/01	---	6.8	3.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	ND	ND	ND	3.5 J	---	6.5	---	---
	05/15/02	---	ND	14.3 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.2 J	ND
	11/05/02	---	2.1	8.9	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	ND	8.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	1.6	---	7.5	---	---
	11/19/03	---	ND	9.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	1.2	---	8.0	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	1.6	---	7.1	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	2.4	---	8.1	---	---
	05/13/04	---	ND	5.7	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03/04	---	ND	3.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	1.5	---	2.7	---	---
	05/04-05/05	---	ND	2.6	---	---	---	---	ND	---	---	---	---	1.4	---	2.3	---	---
	11/15/05	---	0.4 J	2.6	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	05/16/06	---	ND	2.9	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/28/06	---	ND	2.9	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
* GPS Revised 5/8/07	05/08/07	---	0.5 J	4.0	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
GPS = 327 (ACL)	11/27/07	---	3.6	4.7	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/12/08	---	ND	5.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/2-4/08	---	1.7	4.7	---	1.1	1.4	---	ND	1.0 J	---	---	---	---	2.0	3.5	---	---
GPS Revised 1/27/09	03/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	1.8	---	---
GPS = 1.88 (ACL)	6/9-11/09	---	ND	5.4	---	ND	1.3***	---	ND	0.8 J	---	---	---	---	1.7	1.8	---	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	1.6	1.6	---	---
	12/2-4/09	---	ND	5.3	---	ND	1.4	---	ND	1.2	---	---	---	---	1.6	1.7	---	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	---	---	---	1.4	2.1	---	---
	6/8-11/10	--- (ND)	ND	5.7	---	0.5 J	1.3	---	ND	1.8	---	---	---	---	1.2	1.8	---	---
GPS Revised 3/1/11	11/30-12/3/10	ND	1.9 (0.8 J)	5.3	---	0.7 J	0.9 J	---	ND	1.8	---	---	---	---	1.5	1.9	---	---
GPS = 2.42 (ACL)	5/3-5/11	ND	ND	5.1	---	ND	1.0	---	ND	1.9	---	---	---	---	1.2	1.1	---	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	ND	ND	4.9	---	ND	0.9 J	---	ND	2	---	---	---	---	1.3	2.8	---	---
	04/19/12	ND	ND	4.1	---	ND	0.8 J	---	ND	1.5	---	---	---	---	0.8 J	2.5	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	1.8	3.8	---	ND	0.8 J	---	ND	1.4	---	---	---	---	---	3.4	---	---
GPS Revised 7/1/13	4/16-17/2013	ND	ND	3.71	---	ND	---	---	ND	1.23	---	---	---	---	---	3.60	---	---
GPS = 2.4 (ACL)	10/15/13	ND	ND	3.36	---	ND	0.85 J	---	ND	1.76	---	---	---	---	---	3.44	---	---
	04/08/14	ND	ND	2.79	---	ND	0.66 J	---	ND	1.91	---	---	---	---	---	3.41	---	---
Methylene chloride	03/26/01	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---
Dichloromethane	05/04/01	---	0.42 B	2.03 B	---	---	15.54 B	---	ND	---	---	---	---	---	---	---	---	---
GPS=5 (MCL)	12/19/01	---	ND	4.6 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	ND	ND	ND	1.9	---	22.4	---	---
	05/15/02	---	ND	1.5 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND
	11/05/02	---	ND	1.5 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	ND	6.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	0.6 B	---	35	---	---
	11/19/03	---	ND	7.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	0.4 J	---	32	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	0.5 B	---	28	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	0.7 J	---	32	---	---
	05/13/04	---	ND	3.4 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03/04	---	ND	0.8 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	0.3 J	---	11	---	---
	05/04-05/05	---	ND	0.4 B	---	---	---	---	ND	---	---	---	---	ND	---	12	---	---
	11/15/05	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	05/16/06	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/28/06	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	05/08/07	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	11/27/07	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	06/12/08	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
	12/2-4/08	---	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	ND	---	---
	6/9-11/09	---	ND	1.0 J	---	ND	ND***	---	ND	ND	---	---	---	---	ND	ND	---	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	ND	---	---
	12/2-4/09	---	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	ND	---	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	---	---	---	ND	ND	---	---
	6/8-11/10	--- (ND)	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	1.2 J	---	---
	11/30-12/3/10	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	ND	---	---
	5/3-5/11	ND	ND	1.3 J	---	ND	ND	---	ND	ND	---	---	---	---	ND	ND	---	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	ND	---	---
	04/19/12	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	ND	1.1 J	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	---	ND	---	---
	4/16-17/2013	ND	ND	1.03 J	---	ND	---	---	ND	ND	---	---	---	---	---	ND	---	---
	10/15/13	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	---	ND	---	---
	04/08/14	ND	ND	ND	---	ND	ND	---	ND	ND	---	---	---	---	---	ND	---	---

Analyte	Sample Collection Date	CLF-W2	CLF-W3	CLF-W4	CLF-S1	CLF-S2	CLF-S3	CLF-E1	CLF-E1S	CLF-E2S	CLF-E3	CLF-E3S	CLF-E3D	CLF-E4	PZ-4E	Pollet PRE	Field Blank	Equipment Blank	Trip Blank	Method Blank	Instrument Blank
ORGANIC																					
Benzene	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
GPS=5 (MCL)	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	06/27/02	---	---	---	ND	ND	---	ND	ND	4.9	---	---	---	---	---	---	0.3 J	0.1 J	ND	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	ND
	01/21/03	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	---	ND	---	---	0.3 J	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	---	ND	---	---	0.7 J	ND	ND	---	---	ND	---	ND	ND	ND	---	---
	03/11/04	---	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/12/04	---	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03-04/04	---	---	---	---	---	ND	---	---	0.5 J	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	---	ND	---	---	1.6	ND	---	1.1	0.5 J	ND	ND**	ND	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	---	1.6	---	---	0.4 J	---	ND	---	ND	ND	ND	---	---
	6/9-11/09	---	---	---	---	---	ND	---	---	0.6 J	ND	---	ND	0.7 J	ND	ND**	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	---	0.9 J	---	---	1.0 J	---	ND	---	ND	ND	ND	ND	---
	12/2-4/09	---	---	---	---	---	ND	---	---	1.5	ND	---	1.0	0.8 J	ND	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	---	0.3 J	---	---	ND	---	ND	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	---	--- (ND)	---	ND	---	---	ND	ND	---	ND	0.7 B	ND	ND	--- (ND)	0.4 J (ND)	ND (ND)	--- (ND)	---
	11/30-12/3/10	---	---	---	ND	---	ND	---	---	0.6 J	ND	---	ND	1.2	ND	ND**	ND	ND	ND	ND	---
	5/3-5/11	---	---	---	ND	---	ND	---	---	ND	ND	---	ND	0.6 J	ND	ND	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	ND	ND	---	---
	10/05/11	---	---	---	ND	---	ND	---	---	0.7 J	ND	---	ND	1.1	ND	---	ND	ND	ND	ND	---
	04/19/12	---	---	---	ND	---	ND	---	---	ND	ND	---	0.6 J	1.1	ND	ND	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---
	10/3-4/12	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	ND	ND	ND	ND	ND	---
	4/16-17/2013	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	ND	ND	ND	ND	ND	---
	10/15/13	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	ND	ND	---
	04/08/14	---	---	---	ND	---	0.46 J	---	---	---	---	---	---	---	ND	---	ND	ND	ND	ND	---
1,1-Dichloroethane	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
GPS=301 (ACL)	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/27/02	---	---	---	ND	ND	---	ND	ND	2.5	---	---	---	---	---	---	ND	ND	ND	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	01/21/03	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	---	1.8	---	---	0.9 J	0.2 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	---	1.5	---	---	0.6 J	ND	ND	---	---	ND	---	ND	ND	ND	---	---
	03/11/04	---	---	---	---	---	1.7	---	---	ND	0.6 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/12/04	---	---	---	---	---	1.5	---	---	ND	0.6 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03-04/04	---	---	---	---	---	2.1	---	---	0.9 J	0.9 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	---	2.0	---	---	0.7 J	0.8 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
* GPS Revised 5/8/07	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
GPS = 327 (ACL)	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	---	3.6	---	---	0.7 J	0.3	---	1.7	0.6 J	ND	ND**	ND	ND	ND	---	---
GPS Revised 1/27/09	03/10/09	---	---	---	---	---	---	---	---	0.9 J	---	---	0.9 J	---	ND	---	ND	ND	ND	---	---
GPS = 1.88 (ACL)	6/9-11/09	---	---	---	---	---	4.4	---	---	0.3 J	ND	---	ND	1.2	0.2 J	ND**	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	---	0.4 J	---	---	0.8 J	---	ND	---	ND	ND	ND	ND	---
	12/2-4/09	---	---	---	---	---	5.0	---	---	0.6 J	0.3 J	---	0.9 J	0.8 J	ND	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	---	0.3 J	---	---	ND	---	0.2 J	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	---	--- (ND)	---	3.9	---	---	0.5 J	0.3 J	---	ND	0.7 J	ND	ND	--- (ND)	ND (ND)	ND (ND)	--- (ND)	---
GPS Revised 3/1/11	11/30-12/3/10	---	---	---	ND	---	2.2	---	---	0.6 J	0.4 J	---	ND	0.4 J	ND	ND**	ND (ND)	ND (ND)	ND (ND)	ND	---
GPS = 2.42 (ACL)	5/3-5/11	---	---	---	ND	---	1.7	---	---	0.4 J	ND	---	ND	0.5 J	0.4 J	ND	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	ND	ND	---	---
	10/05/11	---	---	---	ND	---	1.5	---	---	0.6 J	ND	---	ND	ND	ND	---	ND	ND	ND	ND	---
	04/19/12	---	---	---	ND	---	1.0	---	---	0.3 J	0.3 J	---	0.5 J	0.3 J	0.2 J	ND	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (ND)	---	ND	---
	10/3-4/12	---	---	---	ND	---	0.9 J	---	---	---	---	---	---	---	0.2 J	ND	ND	ND	ND	ND	---
GPS Revised 7/1/13	4/16-17/2013	---	---	---	ND	---	0.62 J	---	---	---	---	---	---	---	0.43 J	ND	ND	ND	ND	ND	---
GPS = 2.4 (ACL)	10/15/13	---	---	---	ND	---	0.76 J	---	---	---	---	---	---	---	0.28 J	---	ND	ND	ND	ND	---
	04/08/14	---	---	---	ND	---	0.64 J	---	---	---	---	---	---	---	ND	---	ND	ND	ND	ND	---
Methylene chloride	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
Dichloromethane	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	1.72 B	---	0.39 J
GPS=5 (MCL)	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	1	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	0.7 J	ND	---
	06/27/02	---	---	---	ND	ND	---	ND	ND	ND	---	---	---	---	---	---	ND	ND	1.1	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	0.7	---	ND
	01/21/03	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.6 J	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	---	0.9 B	---	---	ND	ND	ND	---	---	ND	---	ND	ND	0.6 J	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	---	0.8 J	---	---	ND	ND	ND	---	---	ND	---	ND	ND	0.5 J	---	---
	03/11/04	---	---	---	---	---	0.8 B	---	---	ND	ND	ND	---	---	ND	---	ND	0.4 J	ND	ND	---
	05/12/04	---	---	---	---	---	0.7 J	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	0.4 J	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	0.5 J	ND	---
	11/03-04/04	---	---	---	---	---	0.9 J	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	---	0.6 B	---	---	ND	ND	ND	---	---	ND	---	ND	ND	0.5 J	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.3 J	3.4 J	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	---	1.5 J	---	---	ND	ND	---	ND	ND	ND	ND**	ND	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	---	ND	---	---	ND	---	ND	---	ND	ND	ND	---	---
	6/9-11/09	---	---	---	---	---	ND	---	---	ND	ND	---	ND	ND	ND	ND**	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	---	ND	---	---	ND	---	ND	---	ND	ND	2.6 J	ND	---
	12/2-4/09	---	---	---	---	---	1.4 J	---	---	ND	ND	---	ND	ND	ND	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	---	ND	---	---	ND	---	ND	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	---	--- (ND)	---	ND	---	---	ND	ND	---	ND	ND	ND	ND	--- (1.2 J)	ND (ND)	ND (ND)	--- (ND)	---
	11/30-12/3/10	---	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	ND	ND**	ND	ND	ND	ND	---
	5/3-5/11	---	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	1.5 J	ND	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	---	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	1.5 J	ND	ND	ND	ND	ND	---
	04/19/12	---	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---
	10/3-4/12	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	ND	ND	ND	ND	ND	---
	4/16-17/2013	---	---	---	ND	---	ND	---	---	---	---	---	---	---	1.32 J	ND	ND	ND	ND	ND	---
	10/15/13	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	ND	ND	---
	04/08/14	---	---	---	ND	---	ND	---	---	---	---	---	---	---	ND	---	ND	ND	ND	ND	---

Attachment VI

Summary of Historical Groundwater Protection Standard Exceedances
Laurel Valley Center Sanitary Landfill
VSWMR Permit No. 251

Analyte	Sample Collection Date	EPA Method	DL	QL	MW-1A	MW-1B	MW-1C	MW-1D	MW-1E	MW-1F	MW-1G	MW-1H	MW-1I	MW-X1	MW-2A	MW-2B	MW-X2
Naphthalene	06/27/02	---	0.1	1.0	ND	---	---	---	---	---	---	---	---	---	---	---	---
GPS=626 (ACL)	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	01/21/03	---	0.1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.3	1	---	ND	---	---	---	---	---	---	---	---	---	ND	---
	07/22/03	---	0.3	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---
	05/04-05/05	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---
	05/16/06	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---
* GPS Revised 5/8/07	05/08/07	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---
GPS = 2.33 (ACL)	06/12/08	---	0.3	1.0	---	ND	---	---	---	---	---	---	---	---	---	ND	---
GPS Revised 1/27/09	6/9-11/09	---	0.05	0.05	---	ND	---	---	---	---	---	---	---	---	---	ND	---
GPS = 0.089 (ACL)	6/8-11/10	---	0.05	0.05	---	ND	---	---	---	---	---	---	---	---	---	ND	---
GPS Revised 3/1/11	5/3-5/11	---	0.06	0.05	---	ND	---	---	---	---	---	---	---	---	---	ND (ND)	---
GPS = 0.143 (ACL)	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	8260B	0.30	1.00	---	---	---	---	---	---	---	---	---	ND	---	---	---
	04/19/12	8270D	0.3	1.0	---	ND	ND	ND	ND	ND	ND	---	---	ND	---	ND	---
	06/18/12	8270D	0.3	1.0	---	---	---	---	---	---	---	ND	---	---	---	---	---
	10/3-4/12	8260B	0.3	1.0	---	ND	---	---	---	---	---	---	---	ND	---	ND	---
GPS Revised 7/1/13	4/16-17/2013	8270D	0.20	1.00	---	ND	---	---	---	---	---	---	---	ND	---	ND	---
GPS = 0.14 (ACL)	10/15/13	8260B	0.20	1.00	---	ND	---	---	---	---	---	---	---	ND	---	ND	---
	04/08/14	8260B	0.20	1.00	---	ND	---	---	---	---	---	---	---	0.47 J	---	ND	---
Tetrachloroethylene (PCE)	03/26/01	---	0.26	0.88	---	---	---	---	---	---	---	---	---	---	---	---	---
GPS=5 (MCL)	05/04/01	---	0.26	1	---	1.13	---	---	---	---	---	---	---	---	---	ND	---
	12/19/01	---	0.2	0.5	---	1.2	---	---	---	---	---	---	---	---	---	ND	---
	02/07/02	---	0.2	2.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.2	1.0	---	1.2	---	---	---	---	---	---	---	---	---	0.2 J	---
	06/27/02	---	0.2	1.0	ND	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.2	0.5	---	0.8	---	---	---	---	---	---	---	---	---	0.4 J	---
	01/21/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.2	1.0	---	0.9 J	---	---	---	---	---	---	---	---	---	0.3 J	---
	07/22/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.2	1.0	---	0.9 J	---	---	---	---	---	---	---	---	---	0.4 J	---
	12/18/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.2	1.0	---	1.1	---	---	---	---	---	---	---	---	---	ND	---
	11/03/04	---	0.2	1.0	---	1.1	---	---	---	---	---	---	---	---	---	0.5 J	---
	11/03-04/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.2	1.0	---	1.0	---	---	---	---	---	---	---	---	---	0.3 J	---
	11/15/05	---	0.2	1.0	---	1.5	---	---	---	---	---	---	---	---	---	0.6 J	---
	05/16/06	---	0.2	1.0	---	1.6	---	---	---	---	---	---	---	---	---	0.6 J	---
	11/28/06	---	0.2	1.0	---	1.4	---	---	---	---	---	---	---	---	---	0.5 J	---
	05/08/07	---	0.2	1.0	---	1.6	---	---	---	---	---	---	---	---	---	0.4 J	---
	11/27/07	---	0.2	1.0	---	1.9	---	---	---	---	---	---	---	---	---	0.7 J	---
	06/12/08	---	0.2	1.0	---	1.5	---	---	---	---	---	---	---	---	---	0.5 J	---
	12/2-4/08	---	0.2	1.0	---	1.7	3.9	---	---	---	---	---	---	1.5	ND	0.5 J	ND
	03/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/9-11/09	---	0.2	1.0	---	1.3	5.3	---	---	---	---	---	---	0.6 J	ND	0.5 J	ND
	09/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND
	12/2-4/09	---	0.2	1.0	---	1.5	6.3	---	---	---	---	---	---	0.4 J	ND	0.4 J	ND
	3/9-10/10	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/8-11/10	---	0.2	1.0	---	1.3	5.7	--- (1.1)	---	---	---	---	---	ND	ND	ND	ND
	11/30-12/3/10	---	0.2	1.0	---	1.3	5.0	1.2	1.8	---	---	---	---	ND	---	0.4 J	ND
	5/3-5/11	---	0.1	1.0	---	1.3	5.1	0.8 J	2.3	---	---	---	---	ND	---	0.2 J	ND
	06/22/11	---	0.2	1.0	---	---	---	---	---	1.2	---	---	---	---	---	---	---
	10/05/11	8260B	0.2	1.0	---	1.3	4.8	1	4.6	1.1	0.6 J	---	---	ND	---	ND	ND
	04/19/12	8260B	0.2	1.0	---	1.1	5.0	0.8 J	1.4	0.2 J	0.4 J	---	---	ND	---	0.4 J	ND
	06/18/12	8260B	0.2	1.0	---	---	---	---	---	---	---	0.3 J	---	---	---	---	---
	10/3-4/12	8260B	0.2	1.0	---	2.1	4.2	0.8 J	1.0 J	0.2 J	0.3 J	0.3 J	ND	ND	---	0.5 J	ND
	4/16-17/2013	8260B	0.20	1.00	---	1.71	4.28	0.52 J	0.97 J	ND	ND	ND	ND	ND	---	0.20 J	ND
	10/15/13	8260B	0.20	1.00	---	1.32	3.75	0.59 J	0.65 J	ND	ND	ND	ND	ND	---	0.39 J	ND
	04/08/14	8260B	0.20	1.00	---	1.14	3.48	0.45 J	0.35 J	ND	ND	ND	ND	ND	---	0.21 J	ND
Trichloroethylene	03/26/01	---	0.25	0.84	---	---	---	---	---	---	---	---	---	---	---	---	---
Trichloroethene	05/04/01	---	0.25	1	---	3.59	---	---	---	---	---	---	---	---	---	0.46 J	---
GPS=5 (MCL)	12/19/01	---	0.2	0.5	---	4.2	---	---	---	---	---	---	---	---	---	0.4 J	---
	02/07/02	---	0.2	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.2	1.0	---	4.2	---	---	---	---	---	---	---	---	---	0.6 J	---
	06/27/02	---	0.2	1.0	ND	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.2	0.5	---	2.4	---	---	---	---	---	---	---	---	---	0.6	---
	01/21/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.2	1.0	---	3.5	---	---	---	---	---	---	---	---	---	0.6 J	---
	07/22/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.2	1.0	---	4.1	---	---	---	---	---	---	---	---	---	0.7 J	---
	12/18/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.2	1.0	---	3.0	---	---	---	---	---	---	---	---	---	0.7 J	---
	11/03/04	---	0.2	1.0	---	4.0	---	---	---	---	---	---	---	---	0.9 J	---	---
	11/03-04/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.2	1.0	---	3.4	---	---	---	---	---	---	---	---	---	0.9 J	---
	11/15/05	---	0.2	1.0	---	3.9	---	---	---	---	---	---	---	---	---	0.9 J	---
	05/16/06	---	0.2	1.0	---	4.0	---	---	---	---	---	---	---	---	---	1.0	---
	11/28/06	---	0.2	1.0	---	4.1	---	---	---	---	---	---	---	---	---	1.2	---
	05/08/07	---	0.2	1.0	---	4.7	---	---	---	---	---	---	---	---	---	1.3	---
	11/27/07	---	0.2	1.0	---	4.6	---	---	---	---	---	---	---	---	---	1.5	---
	06/12/08	---	0.2	1.0	---	4.0	---	---	---	---	---	---	---	---	---	1.5	---
	12/2-4/08	---	0.2	1.0	---	4.1	4.7	---	---	---	---	---	---	0.2 J	ND	1.6	ND
	03/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/9-11/09	---	0.2	1.0	---	4.0	7.4	---	---	---	---	---	---	ND	ND	1.8	ND
	09/10/09	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	0.2 J
	12/2-4/09	---	0.2	1.0	---	4.0	8.0	---	---	---	---	---	---	0.3 J	---	2.0	ND
	3/9-10/10	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/8-11/10	---	0.2	1.0	---	3.2	8.2	--- (1.8)	---	---	---	---	---	ND	ND	1.8	ND
	11/30-12/3/10	---	0.2	1.0	---	3.6	7.3	2.0	3.5	---	---	---	---	0.3 J	---	1.7	ND
	5/3-5/11	---	0.2	1.0	---	3.4	8.3	1.7	3.7	---	---	---	---	ND	---	1.7	ND
	06/22/11	---	0.2	1.0	---	---	---	---	---	14.4	---	---	---	---	---	---	---
	10/05/11	8260B	0.2	1.0	---	3.1	7.9	1.9	7.1	5.4	1.3	---	---	ND	---	1.6	ND
	04/19/12	8260B	0.2	1.0	---	2.7	7.1	1.4	5.1	4.2	5.3	---	---	0.3 J	---	1.8	ND
	06/18/12	8260B	0.2	1.0	---	---	---	---	---	---	---	5.6 (7.1)	---	---	---	---	---
	10/3-4/12	8260B	0.2	1.0	---	4.3	6.9	1.6	6.1	4.1	7.4	5.6	ND	0.5 J	---	2.2	ND
	4/16-17/2013	8260B	0.20	1.00	---	3.91	6.26	1.03	4.79	3.44	5.44	4.11	ND	0.25 J	---	1.53	ND
	10/15/13	8260B	0.20	1.00	---	2.62	4.76	0.87 J	3.30	2.67	4.15	2.66	ND	0.20 J	---	1.24	ND
	04/08/14	8260B	0.20	1.00	---	2.45	4.87	0.86 J	3.02	2.19	3.22	2.78	ND	ND	---	1.45	ND
Vinyl chloride	03/26/01	---	0.30	1.00	---	---	---	---	---	---	---	---	---	---	---	---	---
GPS=2 (MCL)	05/04/01	---	0.30	1.00	---	3.6	---	---	---	---	---	---	---	---	---	3.87	---
	12/19/01	---	0.10	0.50	---	1.9	---	---	---	---	---	---	---	---	---	1.0	---
	02/07/02	---	0.01	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/15/02	---	0.1	1.0	---	2.3	---	---	---	---	---	---	---	---	---	1.6	---
	06/27/02	---	0.1	1.0	0.8 J	---	---	---	---	---	---	---	---	---	---	---	---
	11/05/02	---	0.1	0.5	---	1.3	---	---	---	---	---	---	---	---	---	1.3	---
	01/21/03	---	0.1	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/20/03	---	0.2	1.0	---	2.1	---	---	---	---	---	---	---	---	---	1.2	---
	07/22/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/19/03	---	0.2	1.0	---	3.4	---	---	---	---	---	---	---	---	---	1.7	---
	12/18/03	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/11/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	0.2	1.0	---	2.7	---	---	---	---	---	---	---	---	---	1.5	---
	11/03/04	---	0.2	1.0	---	2.8	---	---	---	---	---	---	---	---	---	1.4	---
	11/03-04/04	---	0.2	1.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	0.2	1.0	---	3.2	---	---	---	---	---	---	---	---	---	1.4	---
	11/15/05	---	0.2	1.0	---	3.6	---	---	---	---	---	---	---	---	---	1.4	---
	05/16/06	---	0.2	1.0	---	3.6	---	---	---	---	---	---	---	---	---	1.2	---
	11/28/06	---	0.2	1.0	---	3.1	---	---	---	---	---	---	---	---	---	ND	---
	05/08/07	---	0.2	1.0	---	4.3	---	---	---	---	---	---	---	---	---	1.4	---
	11/27/07	---	0.2	1.0	---	4.4	---	---	---	---	---	---	---	---	---	1.3	---
	06/12/08	---	0.2	1.0	---	3.6	---	---	---	---	---	---	---	---	---	1.2	---
	12/2-4/08	---	0.2	1.0	---	3.5	5.6 (6.6)	---	---	---	---	---	---	0.4 J	0.5 J	1.1	ND
	03/10/09	---	0.2	0.5	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/9-11/09	---	0.2	0.5	---	4.5	7.6	---	---	---	---	---	---	0.8	0.4 J	1.5	ND
	09/10/09	---	0.2	0.5	---	---	---	---	---	---	---	---	---	---	---	---	ND
	12/2-4/09	---	0.2	0.5	---	4.3	8.8	---	---	---	---	---	---	0.8	0.3 J	1.3	ND
	3/9-10/10	---	0.2	0.5	---	---	---	---	---	---	---	---	---	---	---	---	ND
	6/8-11/10	---	0.2	0.5	---	3.7	8.3	--- (3.9)	---	---	---	---	---	2.5 (1.8)	0.3 J	1.3	ND
	11/30-12/3/10	---	0.2	0.5	---	3.5	8.0	6.0	1.2	---	---	---	---	1.2	---	1.0	ND
	5/3-5/11	---	0.2	0.5	---	3.4	6.7	4.6	0.5	---	---	---	---	ND	---	0.8	ND
	06/22/11	---	0.2	0.5	---	---	---	---	---	4.5	---	---	---	---	---	---	---
	10/05/11	8260B	0.2	0.5	---	2.9	6.1	4.7	3.3	1.6	0.4 J	---	---	0.3 J	---	0.9	ND
	04/19/12	8260B	0.2	0.5	---	2.5	6.5	3.6	0.8	0.6	1.8	---	---	0.6	---	0.9	ND
	06/18/12	8260B	0.2	0.5	---	---	---	---	---	---	---	2.1 (2.9)	---	---	---	---	---
	10/3-4/12	8260B	0.2	0.5	---	4.6	6.0	6.1	1.2	0.2 J	2.3	1.8	ND	0.5	---	1.1	ND
	4/16-17/2013	8260B	0.20	0.50	---	4.38	7.12	4.53	1.32	0.41 J	0.28 J	0.48 J	ND	0.39 J	---	0.79	ND
	10/15/13	8260B	0.20	0.50	---	3.01	5.71	4.95	0.32 J	0.38 J	0.35 J	0.29 J	ND	0.34 J	---	0.61	ND
	04/08/14	8260B	0.20	0.50	---	3.54	6.21	4.89	1.01	0.43 J	0.73	0.41 J	ND	ND	---	0.82	ND

Analyte	Sample Collection Date	MW-X2D	MW-3	MW-3A	MW-4	MW-4A	MW-5	MW-6	MW-7	MW-20	CLF-1	CLF-2A	CLF-6A	CLF-9A	CLF-12A	CLF-12AR	CLF-15A	CLF-15B	CLF-W1	CLF-W2
Naphthalene	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---
GPS=626 (ACL)	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND
	05/20/03	---	---	ND	0.3 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/04-05/05	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/16/06	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
* GPS Revised 5/8/07	05/08/07	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
GPS = 2.33 (ACL)	06/12/08	---	---	ND	0.3 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
GPS Revised 1/27/09	6/9-11/09	---	---	ND	0.46 B	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
GPS = 0.089 (ACL)	6/8-11/10	---	---	ND	0.25 (ND)	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
GPS Revised 3/1/11	5/3-5/11	---	---	ND	0.34 (0.37)	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
GPS = 0.143 (ACL)	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	---	---	---	---	---	---	1.5	---	---	0.3 J	---	---	---	---	---	---	---	---	---
	04/19/12	---	ND	ND	0.99	---	ND	1.4	---	ND	ND	---	---	---	---	---	---	---	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	---	---	ND	1.2 (1.4)	---	---	1.3	---	ND	ND	---	---	---	---	---	---	---	---	---
GPS Revised 7/1/13	4/16-17/2013	---	---	ND	ND	---	---	---	---	ND	0.25 J	---	---	---	---	---	---	---	---	---
GPS = 0.14 (ACL)	10/15/13	---	---	ND	0.86 J	---	---	1.28	---	ND	ND	---	---	---	---	---	---	---	---	---
	04/08/14	---	---	ND	ND	---	---	0.94 J	---	ND	0.33 J	---	---	---	---	---	---	---	---	---
Tetrachloroethylene (PCE)	03/26/01	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
GPS=5 (MCL)	05/04/01	---	---	ND	9.71	---	---	3.39	---	ND	---	---	---	---	---	---	---	---	---	---
	12/19/01	---	---	1.2	10.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	11.7	---	6.1	---	---	---
	05/15/02	---	---	ND	12.6 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---
	11/05/02	---	---	0.5 J	7.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND
	05/20/03	---	---	ND	9.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	---	3.7	---	5.9	---	---	---
	11/19/03	---	---	ND	9.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	3.0	---	5.6	---	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	---	4.4 B	---	4.8 B	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	4.8	---	5.2	---	---	---
	05/13/04	---	---	ND	7.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03/04	---	---	ND	4.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	---	4.0	---	2.4	---	---	---
	05/04-05/05	---	---	ND	2.8	---	---	---	---	ND	---	---	---	---	2.8	---	1.6	---	---	---
	11/15/05	---	---	ND	3.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/16/06	---	---	ND	3.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/28/06	---	---	ND	2.7	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/08/07	---	---	ND	2.6	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/27/07	---	---	0.5 J	3.0	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/12/08	---	---	ND	2.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/2-4/08	ND	---	0.4 J	2.2	---	ND	0.3 J	---	ND	0.8 J	---	---	---	---	2.6	1.6	---	---	---
	03/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	2.8	1.0 J	---	---	---
	6/9-11/09	ND	---	ND	1.4	---	ND	0.4** J	---	ND	ND	---	---	---	---	2.2	0.9 J	---	---	---
	09/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	2.4	0.9 J	---	---	---
	12/2-4/09	ND	---	ND	1.7	---	ND	0.4 J	---	ND	0.5 J	---	---	---	---	2.7	1.0 J	---	---	---
	3/9-10/10	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1.7	1.2	---	---	---
	6/8-11/10	---	--- (ND)	ND	1.1	---	ND	0.4 J	---	ND	0.7 J	---	---	---	---	1.7	1.0	---	---	---
	11/30-12/3/10	ND	ND	0.3 J	1.5	---	ND	0.4 J	---	ND	ND	---	---	---	---	2.0	1.1	---	---	---
	5/3-5/11	ND	ND	ND	1.4	---	ND	ND	---	ND	0.3 J	---	---	---	---	1.3	1.3	---	---	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	ND	ND	ND	0.6 J	---	ND	ND	---	ND	0.2 J	---	---	---	---	1.8	1.1	---	---	---
	04/19/12	ND	ND	ND	1.2	---	ND	0.2 J	---	ND	ND	---	---	---	---	1.5	1.2	---	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	ND	0.3 J	1.0	---	ND	0.2 J	---	ND	ND	---	---	---	---	---	1.0	---	---	---
	4/16-17/2013	ND	ND	ND	0.91 J	---	ND	---	---	ND	ND	---	---	---	---	---	0.98 J	---	---	---
	10/15/13	ND	ND	ND	0.78 J	---	ND	ND	---	ND	ND	---	---	---	---	---	0.50 J	---	---	---
	04/08/14	ND	ND	ND	0.76 J	---	ND	ND	---	ND	ND	---	---	---	---	---	0.35 J	---	---	---
Trichloroethylene	03/26/01	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---
Trichloroethene	05/04/01	---	---	ND	12.88	---	---	2.98	---	ND	---	---	---	---	---	---	---	---	---	---
GPS=5 (MCL)	12/19/01	---	---	2.7	11.3	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	6.6	---	18.1	---	---	---
	05/15/02	---	---	0.1 J	11.3 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---
	11/05/02	---	---	0.8	7.8	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND
	05/20/03	---	---	ND	ND	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	---	2.5	---	21	---	---	---
	11/19/03	---	---	ND	8.3	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	2.0	---	25	---	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	---	2.7 B	---	21	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	2.8	---	23	---	---	---
	05/13/04	---	---	ND	5.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03/04	---	---	ND	3.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	---	2.3	---	6.5	---	---	---
	05/04-05/05	---	---	ND	2.2	---	---	---	---	ND	---	---	---	---	1.8	---	4.3	---	---	---
	11/15/05	---	---	ND	2.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/16/06	---	---	ND	2.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/28/06	---	---	ND	2.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/08/07	---	---	ND	2.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/27/07	---	---	0.6 J	2.7	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/12/08	---	---	ND	2.8	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/2-4/08	ND	---	0.4 J	2.3	---	ND	1.8	---	ND	0.8 J	---	---	---	---	2.7	6.1	---	---	---
	03/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	2.6	3.6	---	---	---
	6/9-11/09	ND	---	ND	2.3	---	ND	1.1***	---	ND	ND	---	---	---	---	2.7	3.7	---	---	---
	09/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	2.6	3.1	---	---	---
	12/2-4/09	ND	---	ND	2.2	---	ND	1.6	---	ND	0.4 J	---	---	---	---	2.4	4.2	---	---	---
	3/9-10/10	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	1.8	4.5	---	---	---
	6/8-11/10	---	--- (ND)	ND	1.9	---	ND	1.0	---	ND	1.1	---	---	---	---	1.7	5.0	---	---	---
	11/30-12/3/10	ND	ND	0.5 J	2.0	---	ND	0.7 J	---	ND	1.8	---	---	---	---	1.6	5.2	---	---	---
	5/3-5/11	ND	ND	ND	1.5	---	ND	0.6 J	---	ND	1.6	---	---	---	---	1.1	6.1	---	---	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	----	---	---	---	---	---	---	---	---
	10/05/11	ND	ND	ND	1.5	---	ND	0.7 J	---	ND	1.4	---	---	---	---	1.4	5.3	---	---	---
	04/19/12	ND	ND	ND	1.8	---	ND	0.7 J	---	ND	1.1	---	---	---	---	1.1	10.0	---	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	ND	0.5 J	1.7	---	ND	0.5 J	---	ND	1.2	---	---	---	---	---	11.7	---	---	---
	4/16-17/2013	ND	ND	ND	1.28	---	ND	---	---	ND	ND	---	---	---	---	---	12.2	---	---	---
	10/15/13	ND	ND	ND	1.22	---	ND	0.58 J	---	ND	0.61 J	---	---	---	---	---	8.56	---	---	---
	04/08/14	ND	ND	ND	0.99 J	---	ND	0.66 J	---	ND	1.31	---	---	---	---	---	7.65	---	---	---
Vinyl chloride	03/26/01	---	---	---	---	---	---	---	---	---	25.28	---	---	---	---	---	---	---	---	---
GPS=2 (MCL)	05/04/01	---	---	ND	10.04	---	---	ND	---	ND	---	---	---	---	---	---	---	---	---	---
	12/19/01	---	---	1.5	2.5	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	5.5	---	0.5 J	---	---	---
	05/15/02	---	---	ND	4.3 R	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/27/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---
	11/05/02	---	---	ND	2.3	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	01/21/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND
	05/20/03	---	---	ND	2.3	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	07/22/03	---	---	---	---	---	---	---	---	---	---	---	---	---	1.3	---	0.9 J	---	---	---
	11/19/03	---	---	ND	3.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	0.9 J	---	1.2	---	---	---
	03/11/04	---	---	---	---	---	---	---	---	---	---	---	---	---	1.4	---	0.9 J	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	1.9	---	1.2	---	---	---
	05/13/04	---	---	ND	1.4	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03/04	---	---	ND	0.9 J	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/03-04/04	---	---	---	---	---	---	---	---	---	---	---	---	---	1.0	---	0.8 J	---	---	---
	05/04-05/05	---	---	ND	1.2	---	---	---	---	ND	---	---	---	---	0.8 J	---	0.4 J	---	---	---
	11/15/05	---	---	ND	1.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/16/06	---	---	ND	1.7	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/28/06	---	---	ND	1.8	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	05/08/07	---	---	ND	2.2	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	11/27/07	---	---	1.9	2.1	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	06/12/08	---	---	ND	2.0	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---
	12/2-4/08	ND	---	0.5 J	1.6	---	0.3 J	2.0	---	ND	1.5	---	---	---	---	1.2	0.6 J	---	---	---
	03/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.7	ND	---	---	---
	6/9-11/09	ND	---	ND	1.7	---	ND	1.7***	---	ND	0.9	---	---	---	---	0.5	ND	---	---	---
	09/10/09	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.6	ND	---	---	---
	12/2-4/09	ND	---	ND	1.5	---	ND	2.3	---	ND	1.2	---	---	---	---	0.6	ND	---	---	---
	3/9-10/10	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	0.4 J	0.3 J	---	---	---
	6/8-11/10	---	--- (ND)	ND	1.8	---	ND	1.6	---	ND	1.2	---	---	---	---	ND	ND	---	---	---
	11/30-12/3/10	ND	ND	0.4 J	1.3	---	ND	1.4	---	ND	1.3	---	---	---	---	0.3 J	ND	---	---	---
	5/3-5/11	ND	ND	ND	1.1	---	ND	1.1	---	ND	1.0	---	---	---	---	ND	0.2 J	---		---
	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	ND	ND	ND	1.2	---	ND	1.3	---	ND	1.1	---	---	---	---	ND	0.3 J	---	---	---
	04/19/12	ND	ND	ND	1.2	---	ND	1.2	---	ND	0.7	---	---	---	---	ND	ND	---	---	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/3-4/12	ND	ND	1.0	1.2	---	ND	1.2	---	ND	0.8	---	---	---	---	---	ND	---	---	---
	4/16-17/2013	ND	ND	ND	1.10	---	ND	---	---	ND	0.98	---	---	---	---	---	ND	---	---	---
	10/15/13	ND	ND	ND	1.11	---	ND	1.2	---	ND	1.21	---	---	---	---	---	0.26 J	---	---	---
	04/08/14	ND	ND	ND	1.01	---	ND	1.09	---	ND	1.26	---	---	---	---	---	ND	---	---	---

Analyte	Sample Collection Date	CLF-W3	CLF-W4	CLF-S1	CLF-S2	CLF-S3	CLF-E1	CLF-E1S	CLF-E2S	CLF-E3	CLF-E3S	CLF-E3D	CLF-E4	PZ-4E	Pollet PRE	Field Blank	Equipment Blank	Trip Blank	Method Blank	Instrument Blank
Naphthalene	06/27/02	---	---	ND	ND	---	ND	ND	2.6	---	---	---	---	---	---	ND	ND	ND	---	ND
GPS=626 (ACL)	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	01/21/03	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.3 J	ND	ND	ND	---
	07/22/03	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/18/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/12/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
* GPS Revised 5/8/07	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
GPS = 2.33 (ACL)	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.5 J	ND	ND	---
GPS Revised 1/27/09	6/9-11/09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	0.18	---	ND	---
GPS = 0.089 (ACL)	6/8-11/10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---
GPS Revised 3/1/11	5/3-5/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (ND)	ND (ND)	---	---	---
GPS = 0.143 (ACL)	06/22/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/05/11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---
	04/19/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---
	10/3-4/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
GPS Revised 7/1/13	4/16-17/2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
GPS = 0.14 (ACL)	10/15/13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	04/08/14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
Tetrachloroethylene (PCE)	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
GPS=5 (MCL)	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/27/02	---	---	ND	ND	---	ND	ND	ND	---	---	---	---	---	---	ND	ND	ND	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	01/21/03	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	0.2 J	---	---	ND	0.4 J	ND	---	---	0.2 J	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	ND	---	---	ND	0.3 J	ND	---	---	0.2 J	---	ND	ND	ND	---	---
	03/11/04	---	---	---	---	ND	---	---	ND	1.1 B	ND	---	---	0.2 B	---	ND	1.3	ND	ND	---
	05/12/04	---	---	---	---	ND	---	---	ND	0.9 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03-04/04	---	---	---	---	0.2 J	---	---	ND	1.7	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	ND	---	---	ND	1.2	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	0.2 J	---	---	ND	0.5 J	---	ND	ND	0.5 J	0.9** J	ND	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	ND	---	---	ND	---	0.5 J	---	ND	ND	ND	---	---
	6/9-11/09	---	---	---	---	0.2 J	---	---	ND	ND	---	ND	ND	0.4 J	0.2** J	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	ND	---	0.7 J	---	ND	ND	ND	ND	---
	12/2-4/09	---	---	---	---	0.3 J	---	---	ND	0.6 J	---	ND	ND	0.5 J	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	ND	---	0.2 J	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	--- (ND)	---	ND	---	---	ND	0.6 J	---	ND	ND	0.5 J	ND	ND (ND)	ND (ND)	ND (ND)	--- (ND)	---
	11/30-12/3/10	---	---	ND	---	ND	---	---	ND	0.8 J	---	ND	ND	0.4 J	0.2** J	ND	ND	ND	ND	---
	5/3-5/11	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	0.4 J	0.4 J	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	ND	ND	---	---
	10/05/11	---	---	ND	---	ND	---	---	ND	0.4 J	---	ND	ND	0.5 J	---	ND	ND	ND	ND	---
	04/19/12	---	---	ND	---	ND	---	---	ND	0.6 J	---	ND	ND	0.6 J	0.8 J	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---
	10/3-4/12	---	---	ND	---	ND	---	---	---	---	---	---	---	0.4 J	0.3 J	ND	ND	ND	ND	---
	4/16-17/2013	---	---	ND	---	ND	---	---	---	---	---	---	---	0.40 J	0.25 J	ND	ND	ND	ND	---
	10/15/13	---	---	ND	---	ND	---	---	---	---	---	---	---	0.66 J	---	ND	ND	ND	ND	---
	04/08/14	---	---	ND	---	ND	---	---	---	---	---	---	---	0.39 J	---	ND	ND	ND	ND	---
Trichloroethylene	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
Trichloroethene	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
GPS=5 (MCL)	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/27/02	---	---	ND	ND	---	ND	ND	ND	---	---	---	---	---	---	ND	0.3 J	ND	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	01/21/03	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	0.5 J	---	---	0.2 J	0.4 J	ND	---	---	0.2 J	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	0.3 J	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	---	---
	03/11/04	---	---	---	---	0.3 B	---	---	ND	0.7 B	ND	---	---	ND	---	ND	0.9 J	ND	ND	---
	05/12/04	---	---	---	---	ND	---	---	ND	0.6 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03-04/04	---	---	---	---	0.4 J	---	---	ND	1.0	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	0.3 J	---	---	ND	0.8 J	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	0.6 J	---	---	ND	0.3 J	---	ND	ND	0.4 J	0.3** J	ND	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	ND	---	---	ND	---	0.2 J	---	ND	ND	ND	---	---
	6/9-11/09	---	---	---	---	0.7 J	---	---	ND	ND	---	ND	ND	ND	ND**	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	0.2 J	---	0.5 J	---	ND	ND	ND	ND	---
	12/2-4/09	---	---	---	---	0.9 J	---	---	ND	0.3 J	---	0.2 J	ND	0.3 J	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	ND	---	0.2 J	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	--- (ND)	---	0.7 J	---	---	ND	0.4 J	---	ND	ND	0.4 J	ND	ND (ND)	ND (ND)	ND (ND)	--- (ND)	---
	11/30-12/3/10	---	---	ND	---	0.3 J	---	---	ND	0.5 J	---	ND	ND	0.3 J	ND**	ND	ND	ND	ND	---
	5/3-5/11	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	0.3 J	ND	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	ND	ND	---	---
	10/05/11	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	0.3 J	---	ND	ND	ND	ND	---
	04/19/12	---	---	ND	---	ND	---	---	ND	0.4 J	---	ND	ND	0.6 J	0.2 J	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (ND)	---	ND	---
	10/3-4/12	---	---	ND	---	ND	---	---	---	---	---	---	---	0.6 J	ND	ND	ND	ND	ND	---
	4/16-17/2013	---	---	ND	---	ND	---	---	---	---	---	---	---	0.42 J	ND	ND	ND	ND	ND	---
	10/15/13	---	---	ND	---	ND	---	---	---	---	---	---	---	0.52 J	---	ND	ND	ND	ND	---
	04/08/14	---	---	ND	---	ND	---	---	---	---	---	---	---	0.31 J	---	ND	ND	ND	ND	---
Vinyl chloride	03/26/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	ND
GPS=2 (MCL)	05/04/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	12/19/01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	02/07/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	ND	---	---
	05/15/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/27/02	---	---	ND	ND	---	ND	ND	0.2 J	---	---	---	---	---	---	ND	ND	ND	---	ND
	11/05/02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	---	ND
	01/21/03	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---
	05/20/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	07/22/03	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/18/03	---	---	---	---	ND	---	---	ND	ND	ND	---	---	0.4 J	---	ND	ND	ND	---	---
	03/11/04	---	---	---	---	ND	---	---	ND	ND	ND	---	---	0.4 J	---	ND	ND	ND	ND	---
	05/12/04	---	---	---	---	ND	---	---	ND	ND	ND	---	---	ND	---	ND	ND	ND	ND	---
	05/13/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03/04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/03-04/04	---	---	---	---	ND	---	---	ND	ND	ND	---	---	0.6 J	---	ND	ND	ND	ND	---
	05/04-05/05	---	---	---	---	ND	---	---	ND	ND	ND	---	---	0.2 J	---	ND	ND	ND	ND	---
	11/15/05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/16/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/28/06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	05/08/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	11/27/07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	06/12/08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	---
	12/2-4/08	---	---	---	---	ND	---	---	ND	ND	---	0.4 J	ND	2.2 (0.4)	ND**	ND	ND	ND	---	---
	03/10/09	---	---	---	---	---	---	---	ND	---	---	ND	---	0.7	---	ND	ND	ND	---	---
	6/9-11/09	---	---	---	---	ND	---	---	ND	ND	---	ND	---	0.3 J	ND**	ND	ND	ND	ND	---
	09/10/09	---	---	---	---	---	---	---	ND	---	---	0.2 J	---	2.6	---	ND	ND	ND	ND	---
	12/2-4/09	---	---	---	---	ND	---	---	ND	ND	---	0.3 J	ND	1.9	ND**	ND	ND	ND	ND	---
	3/9-10/10	---	---	---	---	---	---	---	ND	---	---	ND	---	0.9	---	ND	ND	ND	ND	---
	6/8-11/10	---	---	--- (ND)	---	ND	---	---	ND	ND	---	ND	ND	2.6	ND	ND (ND)	ND (ND)	ND (ND)	--- (ND)	---
	11/30-12/3/10	---	---	ND	---	0.2 J	---	---	ND	ND	---	ND	ND	1.3	ND**	ND	ND	ND	ND	---
	5/3-5/11	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	0.2 J	ND	ND	ND	ND	ND	---
	06/22/11	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	ND	ND	---	---
	10/05/11	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	1	---	ND	ND	ND	ND	---
	04/19/12	---	---	ND	---	ND	---	---	ND	ND	---	ND	ND	1.8	ND	ND	ND	ND	ND	---
	06/18/12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND (ND)	---	ND	---
	10/3-4/12	---	---	ND	---	ND	---	---	---	---	---	---	---	1.1	ND	ND	ND	ND	ND	---
	4/16-17/2013	---	---	ND	---	ND	---	---	---	---	---	---	---	0.40 J	ND	ND	ND	ND	ND	---
	10/15/13	---	---	ND	---	ND	---	---	---	---	---	---	---	1.42	---	ND	ND	ND	ND	---
	04/08/14	---	---	ND	---	ND	---	---	---	---	---	---	---	0.82	---	ND	ND	ND	ND	---

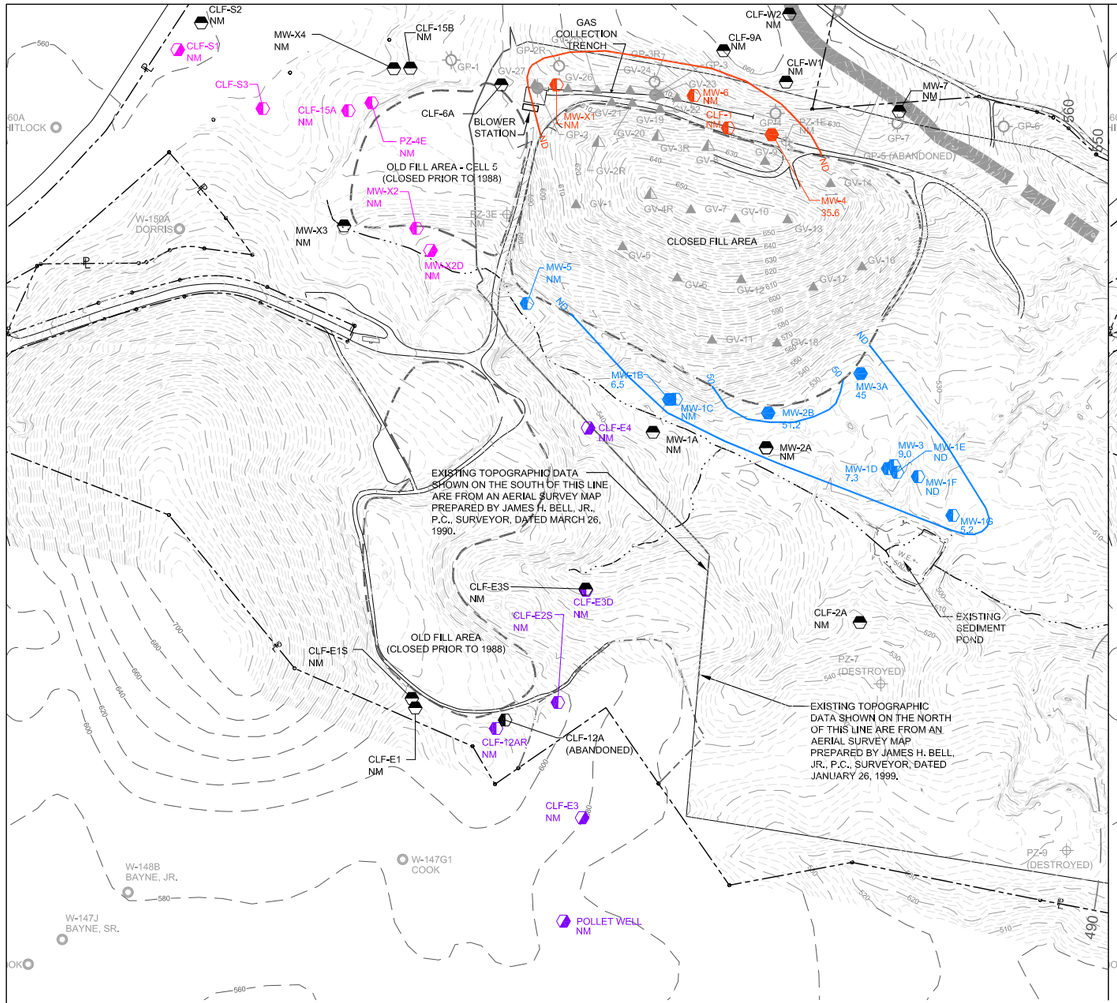
Notes:
All concentrations are reported in ug/L.
ND = not detected above the method detection limit
DL = laboratory detection limit
QL = laboratory quantitation limit
BDL = not detected above method detection limit
BQL = not detected above method quantitation limit
--- = not analyzed, or data not available, or if used in DL/QL columns, DL/QL not reported
J = estimated concentration
B = reported detect considered to represent blank contamination.
R = reported concentrations are unusable.
GPS= groundwater protection standards (approved November 1998)
MCL= maximum contaminant level
ACL= alternate concentration limit
BG= background
EQL= estimated laboratory quantitation limit
EPA= United States Environmental Protection Agency
Verification re-sampling results are in parentheses after the original result.
Well MW-20 is designated as the background well for the facility.
Well MW-4A, formerly an upgradient well, was removed from the network on December 14, 2001.
Wells MW-1B, MW-2B, MW-3A, MW-4, and MW-20 are included in facility compliance monitoring network.
* GPS revised based on the April 2006 updated alternate concentration limits produced by the USEPA. Variance approval was granted on May 8, 2007.
** Pollet PRE well sampled on different date.
*** Well was dry on sampling date, therefore, was sampled on a different date.
Highlighted Values are above GPS.

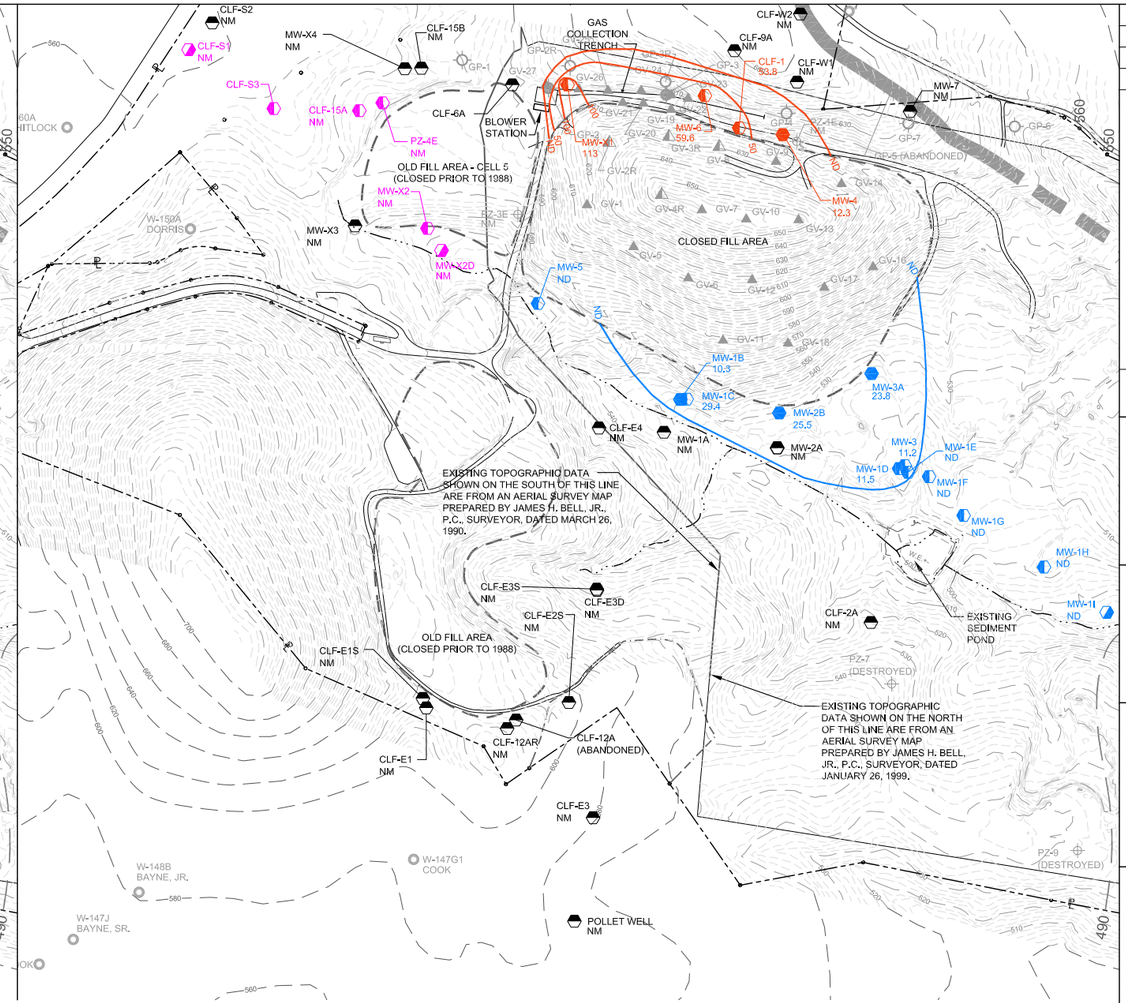
P:\Culpeper\Culpeper County Landfill\Groundwater\GMR\06_2010\Tables\gwhis.xls

Attachment VII:
Vertical and Horizontal Plume Maps provided for each GPS exceeding constituent on site (wherever possible – sized to fit on an 11" x 17" sheet)

Drawing 12: Geologic Cross Sections: May 2011 & April 2014

Constituent of Concern	Isoconcentration Map May 2011 &April 2014	May 2011 Cross-Sections	April 2014 Cross-Sections
Cobalt	Drawing 4	Drawing 13A	Drawing 13B
Mercury	Drawing 5	Drawing 14A	Drawing 14B
Benzene	Drawing 6	Drawing 15A	Drawing 15B
1,1-Dichloroethane	Drawing 7	Drawing 16A	Drawing 16B
Naphthalene	Drawing 8	Drawing 17A	Drawing 17B
Tetrachloroethene	Drawing 9	Drawing 18A	Drawing 18B
Trichloroethene	Drawing 10	Drawing19A	Drawing 19B
Vinyl Chloride	Drawing 11	Drawing 20A	Drawing 20B





MAY 2011

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 10 FEET (SEE ALSO NOTE 6).
2. THE CORRECTIVE ACTION MONITORING NETWORK WELLS HAVE BEEN COLOR-CODED ACCORDINGLY. MW-20 REMAINS BLACK SINCE IT IS SHARED AS AN UPGRADIENT WELL FOR THE FOUR CORRECTIVE ACTION MONITORING NETWORKS (CLFP-1, CLFP-2, CLFP-3, AND CLFP-4).
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6. SURVEY INFORMATION FOR MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, AND MW-1I PROVIDED BY JAMES CUBBAGE, JR.
7. ALL WELLS WERE SAMPLED ON MAY 4 AND 5, 2011.
8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1G WAS SAMPLED ON OCTOBER 5, 2011.

LEGEND

- 640 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — COBALT CONTOUR IN PLUME CLFP-1(µg/L)
- ND — COBALT CONTOUR IN PLUME CLFP-2 (µg/L)
- NM — COBALT CONTOUR IN PLUME CLFP-3 (µg/L)
- NM — COBALT CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1A — OBSERVATION WELL LOCATION AND IDENTIFICATION
- CLF-D15A — PERFORMANCE WELL LOCATION AND IDENTIFICATION
- CLF-51 — SENTINEL WELL LOCATION AND IDENTIFICATION
- PZ-1E — PIEZOMETER LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GP-4 — GAS PROBE LOCATION AND IDENTIFICATION
- GP-3 — OBSERVATION GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — APPROXIMATE GAS VENT LOCATION AND IDENTIFICATION
- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION

(NM) NOT MEASURED
ND NOT DETECTED
J ESTIMATED CONCENTRATION
µg/L MICROGRAMS PER LITER

APRIL 2014

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8. A RESAMPLE EVENT WAS PERFORMED ON MAY 14, 2014.
9. THE ND ISOCONTOUR IS INFERRED.

GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

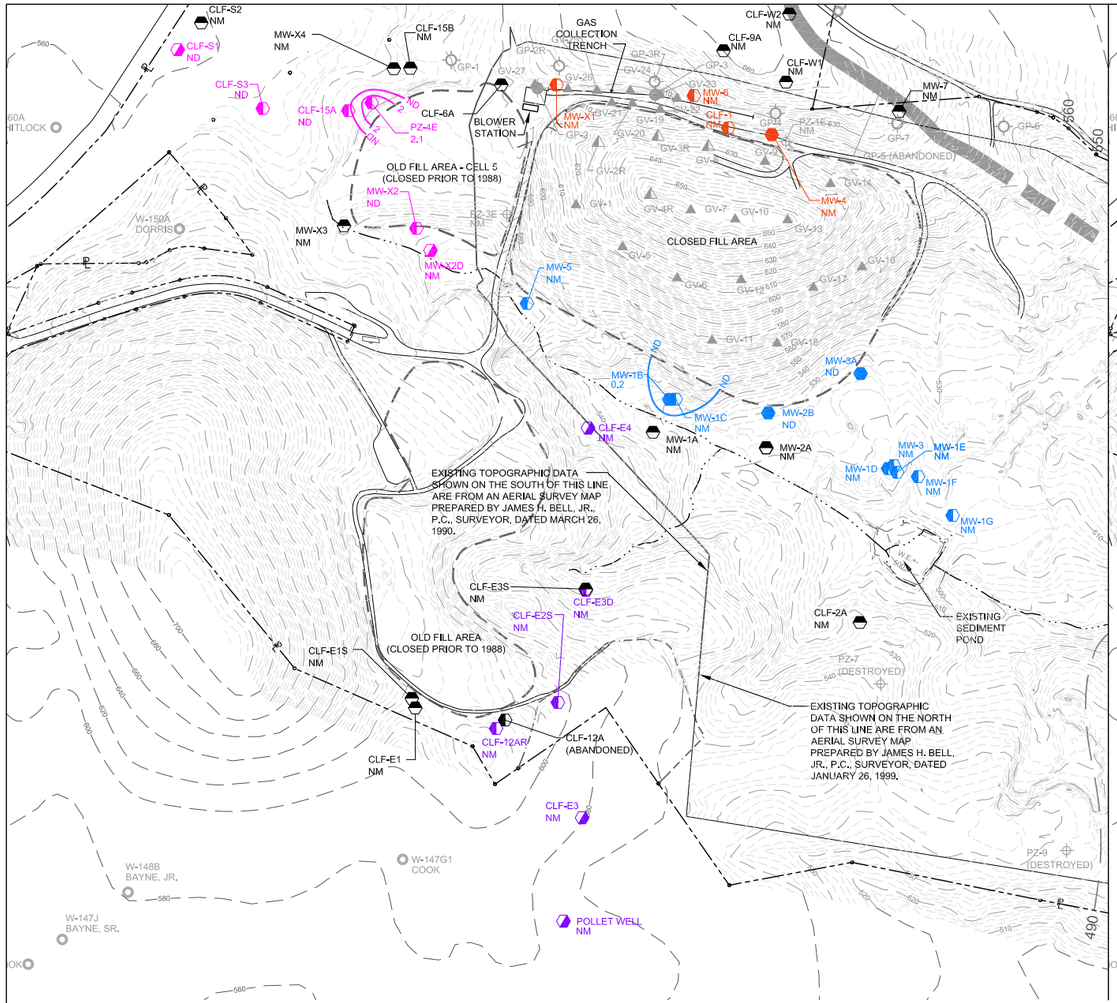
COBALT ISOPLETH
PERMIT NO. 251

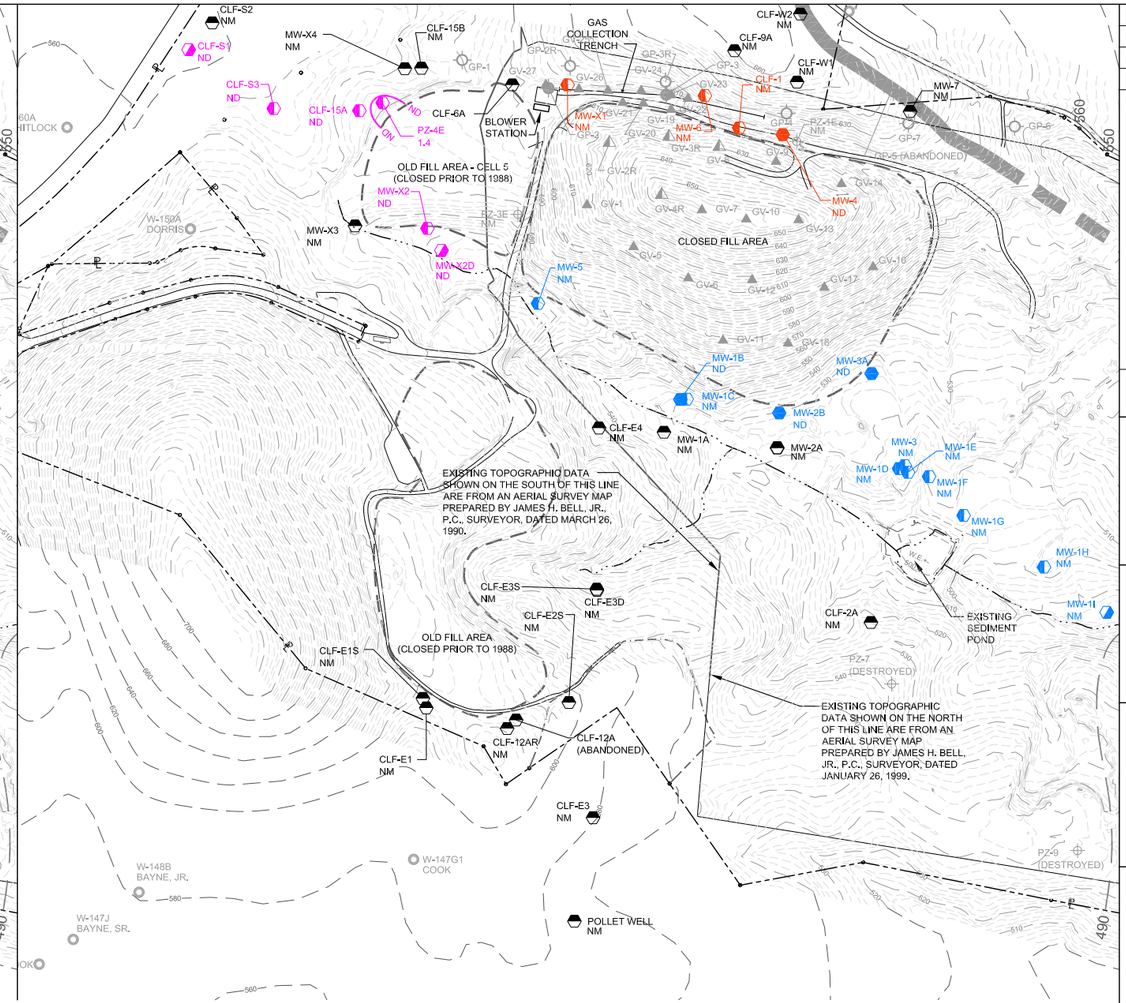
PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
4

N:\DWGS\CULPEPER\CASE\2014\04-Cobalt Isopleth.dwg Layout=4 Cobalt Isopleth





MAY 2011

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8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.

LEGEND

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- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — MERCURY CONTOUR IN PLUME CLFP-1(µg/L)
- ND — MERCURY CONTOUR IN PLUME CLFP-2 (µg/L)
- ND — MERCURY CONTOUR IN PLUME CLFP-3 (µg/L)
- NM — MERCURY CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1A — OBSERVATION WELL LOCATION AND IDENTIFICATION
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- GP-3 — OBSERVATION GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — APPROXIMATE GAS VENT LOCATION AND IDENTIFICATION
- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION

(NM) NOT MEASURED
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J ESTIMATED CONCENTRATION
µg/L MICROGRAMS PER LITER

APRIL 2014

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GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

MERCURY ISOPLETH
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
5

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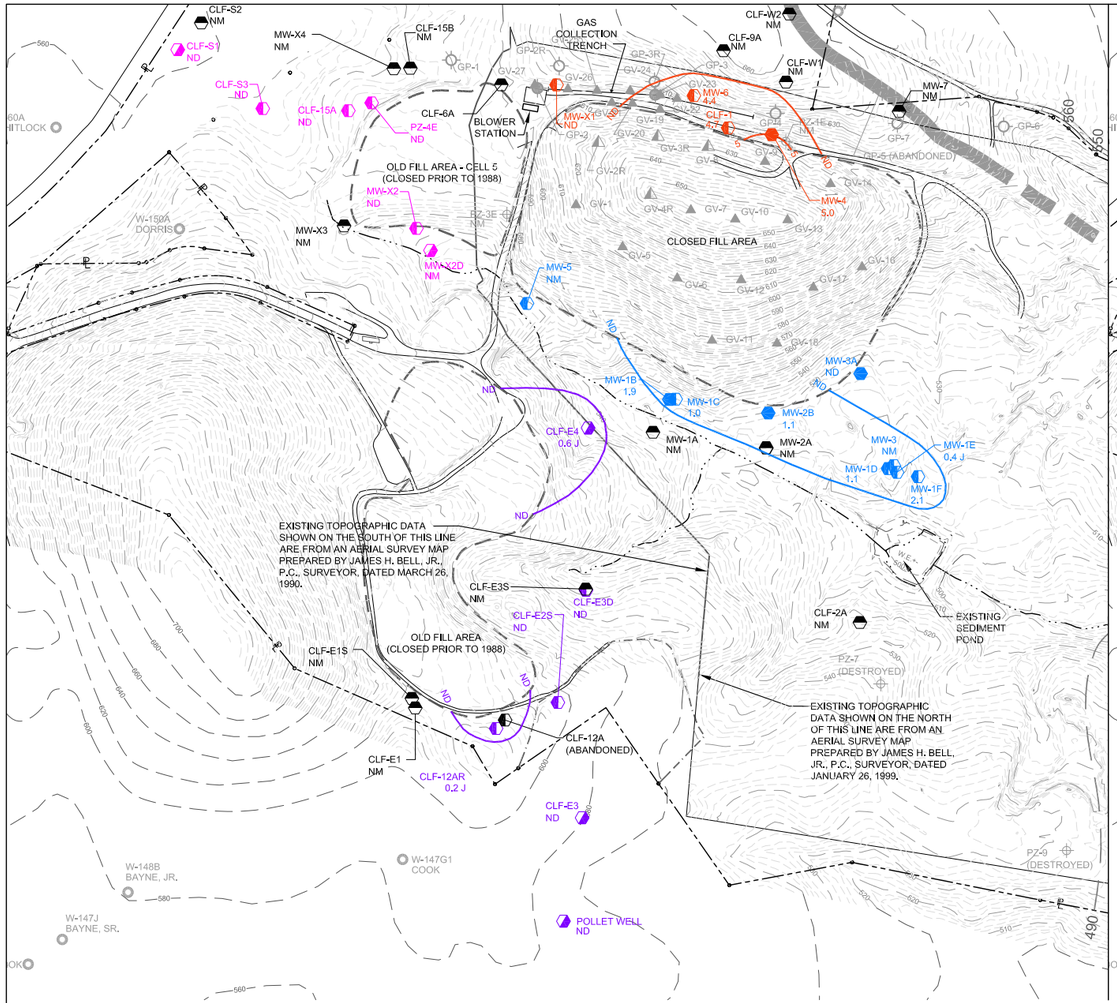

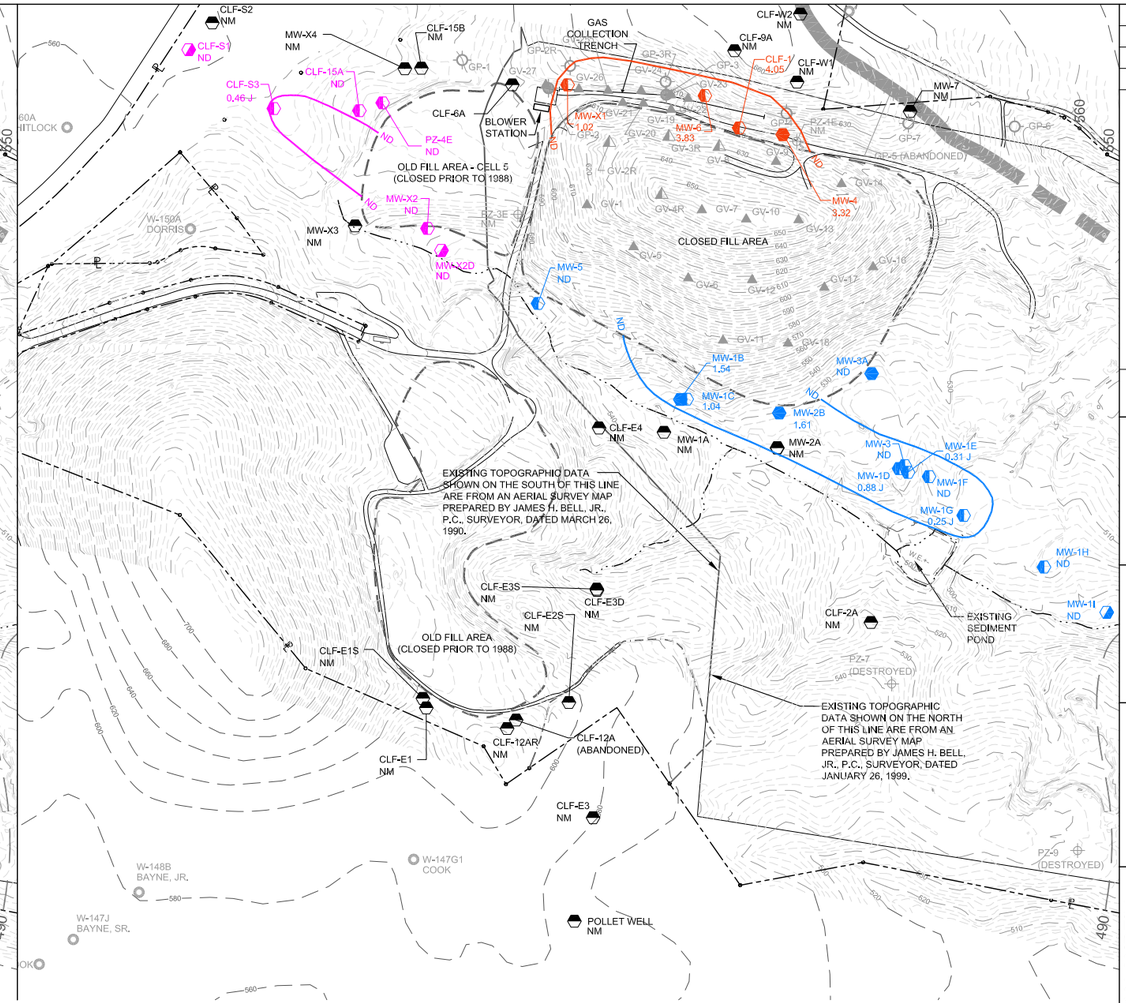

MAY 2011

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8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.

LEGEND

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- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — BENZENE CONTOUR IN PLUME CLFP-1(µg/L)
- ND — BENZENE CONTOUR IN PLUME CLFP-2 (µg/L)
- ND — BENZENE CONTOUR IN PLUME CLFP-3 (µg/L)
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CULPEPER COUNTY, VIRGINIA

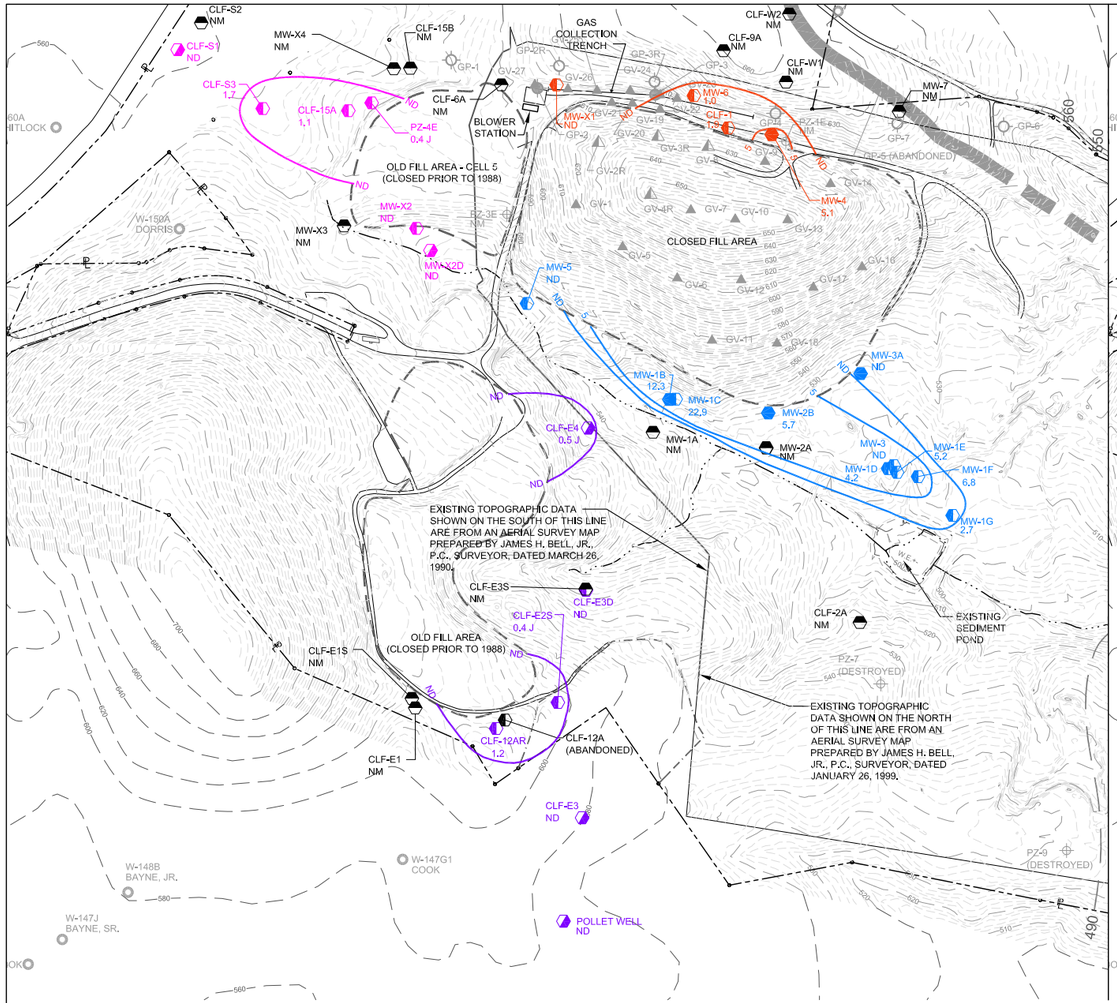
BENZENE ISOPLETH
PERMIT NO. 251

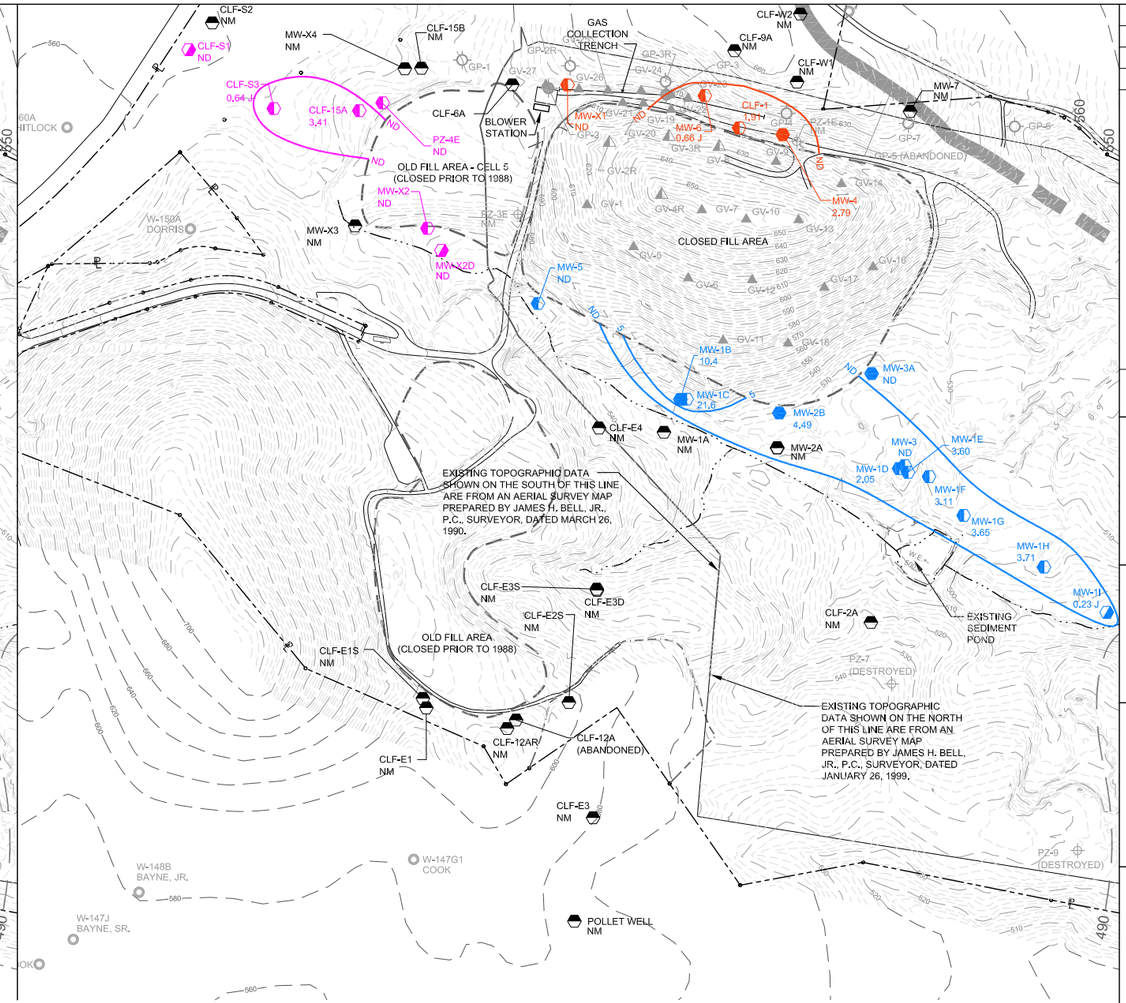
PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
6

N:\DWGS\CULPEPER\CASE\2014\06-Benzene Isopleth.dwg Layout=6 Benzene Isopleth





MAY 2011

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 10 FEET (SEE ALSO NOTE 6).
2. THE CORRECTIVE ACTION MONITORING NETWORK WELLS HAVE BEEN COLOR-CODED ACCORDINGLY. MW-20 REMAINS BLACK SINCE IT IS SHARED AS AN UPGRADIENT WELL FOR THE FOUR CORRECTIVE ACTION MONITORING NETWORKS (CLFP-1, CLFP-2, CLFP-3, AND CLFP-4).
3. LOCATIONS OF ALL WELLS, PROBES, AND SPRINGS ARE APPROXIMATE.
4. TOPOGRAPHY OUTSIDE OF LANDFILL BOUNDARY WAS DIGITIZED FROM 7.5 MIN. USGS QUADRANGLE, CASTLETON, VA, REVISED 1984. TOPOGRAPHIC CONTOUR INTERVAL = 20 FEET.
5. CLF-1, CLF-12AR, CLF-15A, CLF-E3D, CLF-E4, MW-1C, MW-6 AND MW-X2D, SURVEY INFORMATION PROVIDED BY DEWBARRY, 14115 LOVERS LANE, SUITE 20, CULPEPER, VIRGINIA 22701-4167, (540) 727.2860, www.dewberry.com, ON 08/14/08.
6. SURVEY INFORMATION FOR MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, AND MW-1I PROVIDED BY JAMES CUBBAGE, JR.
7. ALL WELLS WERE SAMPLED ON MAY 4 AND 5, 2011.
8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
10. THE ND ISOCONTOUR IS INFERRED

LEGEND

- 640 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — 1,1-DICHLOROETHANE CONTOUR IN PLUME CLFP-1(µg/L)
- ND — 1,1-DICHLOROETHANE CONTOUR IN PLUME CLFP-2 (µg/L)
- ND — 1,1-DICHLOROETHANE CONTOUR IN PLUME CLFP-3 (µg/L)
- ND — 1,1-DICHLOROETHANE CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1A — OBSERVATION WELL LOCATION AND IDENTIFICATION
- CLF-D15A — PERFORMANCE WELL LOCATION AND IDENTIFICATION
- CLF-51 — SENTINEL WELL LOCATION AND IDENTIFICATION
- PZ-1E — PIEZOMETER LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GP-4 — GAS PROBE LOCATION AND IDENTIFICATION
- GP-3 — OBSERVATION GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — APPROXIMATE GAS VENT LOCATION AND IDENTIFICATION
- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION

(NM) NOT MEASURED
ND NOT DETECTED
J ESTIMATED CONCENTRATION
µg/L MICROGRAMS PER LITER

APRIL 2014

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 10 FEET (SEE ALSO NOTE 6).
2. THE CORRECTIVE ACTION MONITORING NETWORK WELLS HAVE BEEN COLOR-CODED ACCORDINGLY. MW-20 REMAINS BLACK SINCE IT IS SHARED AS AN UPGRADIENT WELL FOR THE FOUR CORRECTIVE ACTION MONITORING NETWORKS (CLFP-1, CLFP-2, CLFP-3, AND CLFP-4).
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6. SURVEY INFORMATION FOR MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, AND MW-1I PROVIDED BY JAMES CUBBAGE, JR.
7. ALL WELLS WERE SAMPLED ON APRIL 8 AND 9, 2014.
8. A RESAMPLE EVENT WAS PERFORMED ON MAY 14, 2014.
9. THE ND ISOCONTOUR IS INFERRED

GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

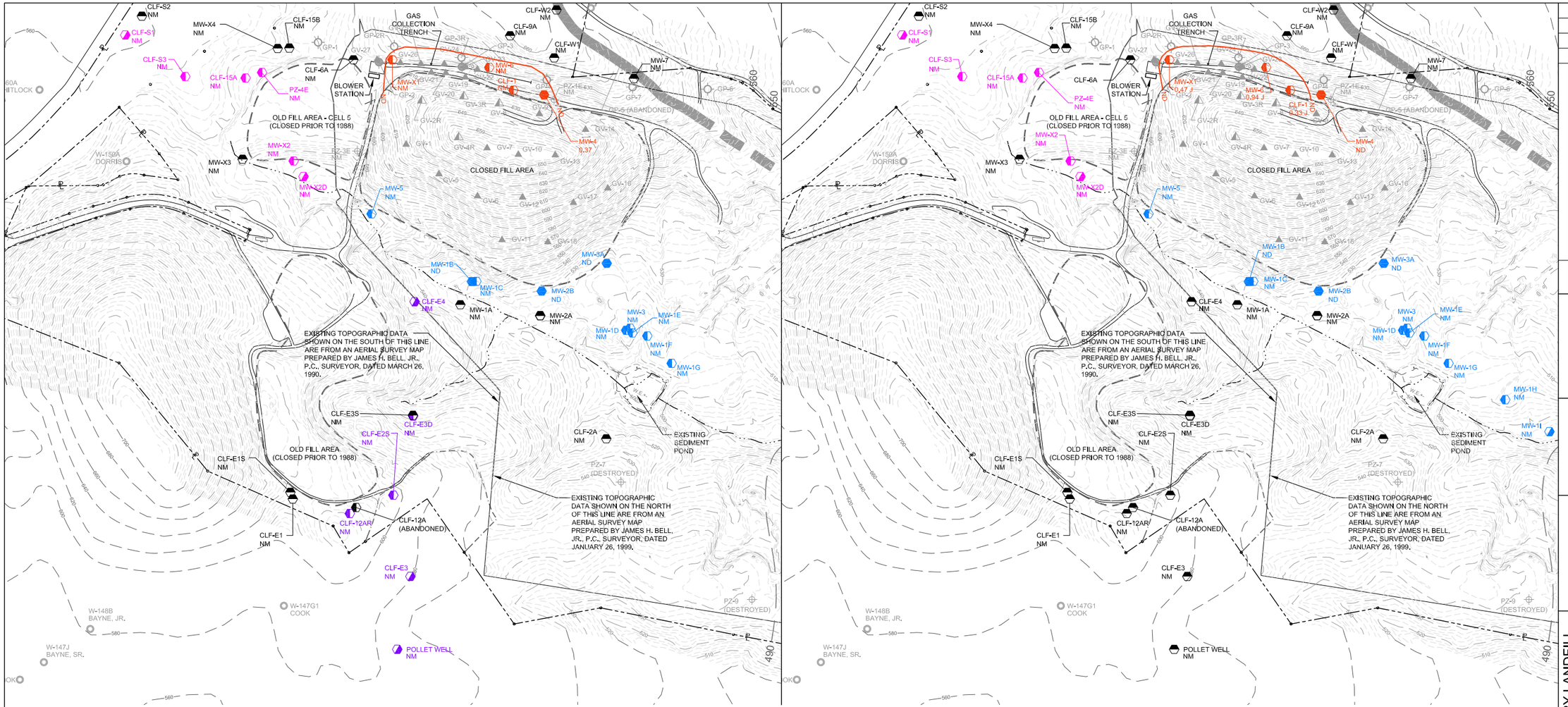
1,1 DICHLOROETHANE ISOPLETH
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
7

N:\DWGS\CULPEPER\CASE\2014\07-1,1 DichloroethaneIsopleth.dwg Layout='7 1 1 DichloroethaneIsopleth



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7. ALL WELLS WERE SAMPLED ON MAY 4 AND 5, 2011.
8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
10. THE ND ISOCONTOUR IS INFERRED.

LEGEND

- 640 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — NAPHTHALENE CONTOUR IN PLUME CLFP-1(µg/L)
- ND — NAPHTHALENE CONTOUR IN PLUME CLFP-2 (µg/L)
- NM — NAPHTHALENE CONTOUR IN PLUME CLFP-3 (µg/L)
- NM — NAPHTHALENE CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1A — OBSERVATION WELL LOCATION AND IDENTIFICATION
- CLF-D15A — PERFORMANCE WELL LOCATION AND IDENTIFICATION
- CLF-51 — SENTINEL WELL LOCATION AND IDENTIFICATION
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- GP-4 — GAS PROBE LOCATION AND IDENTIFICATION
- GP-3 — OBSERVATION GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — APPROXIMATE GAS VENT LOCATION AND IDENTIFICATION
- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION
- (NM) — NOT MEASURED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- µg/L — MICROGRAMS PER LITER

APRIL 2014

NOTES:

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GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

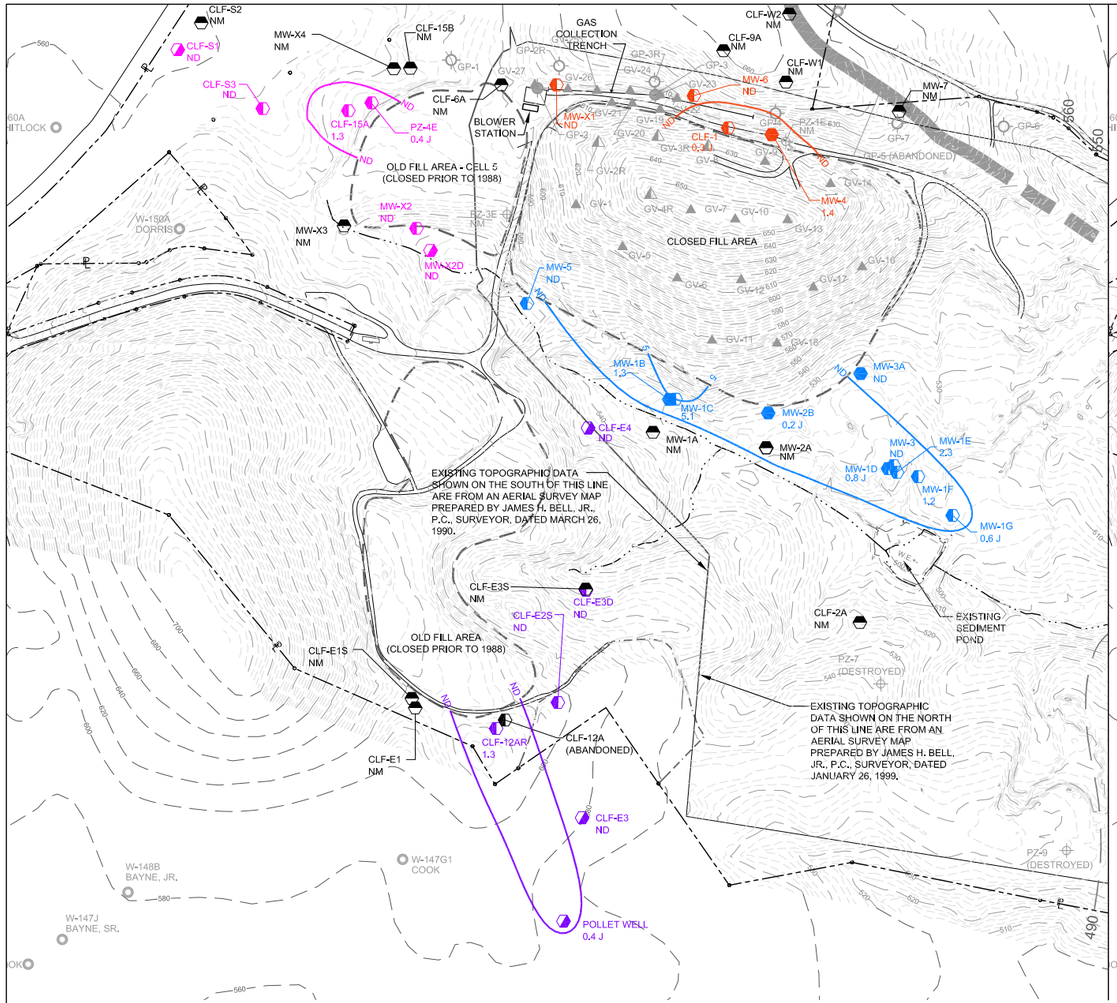
NAPHTHALENE ISOPLETH
PERMIT NO. 251

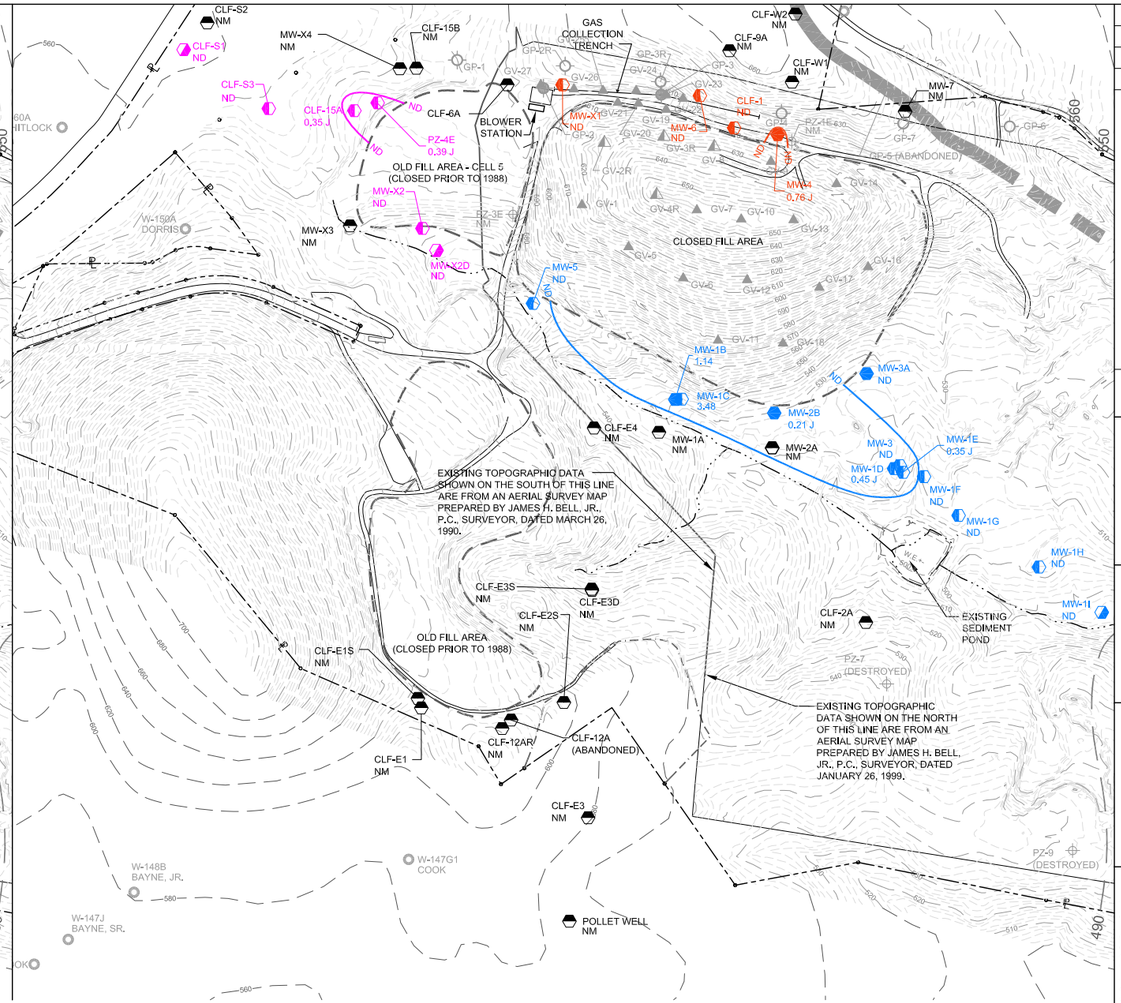
PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
8

N:\DWGS\CULPEPER\CASE\2014\08-Naphthalene Isopleth\.dwg Layout=8 Naphthalene Isopleth





MAY 2011

NOTES:

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7. ALL WELLS WERE SAMPLED ON MAY 4 AND 5, 2011.
8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1F WAS SAMPLED ON JUNE 22, 2011.
10. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
11. THE ND ISOCONTOUR IS INFERRED.

LEGEND

- 640 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — TETRACHLOROETHENE CONTOUR IN PLUME CLFP-1(µg/L)
- ND — TETRACHLOROETHENE CONTOUR IN PLUME CLFP-2 (µg/L)
- ND — TETRACHLOROETHENE CONTOUR IN PLUME CLFP-3 (µg/L)
- ND — TETRACHLOROETHENE CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
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- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION
- (NM) — NOT MEASURED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- µg/L — MICROGRAMS PER LITER

APRIL 2014

NOTES:

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GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
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PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

TETRACHLOROETHENE ISOPLETH PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
9

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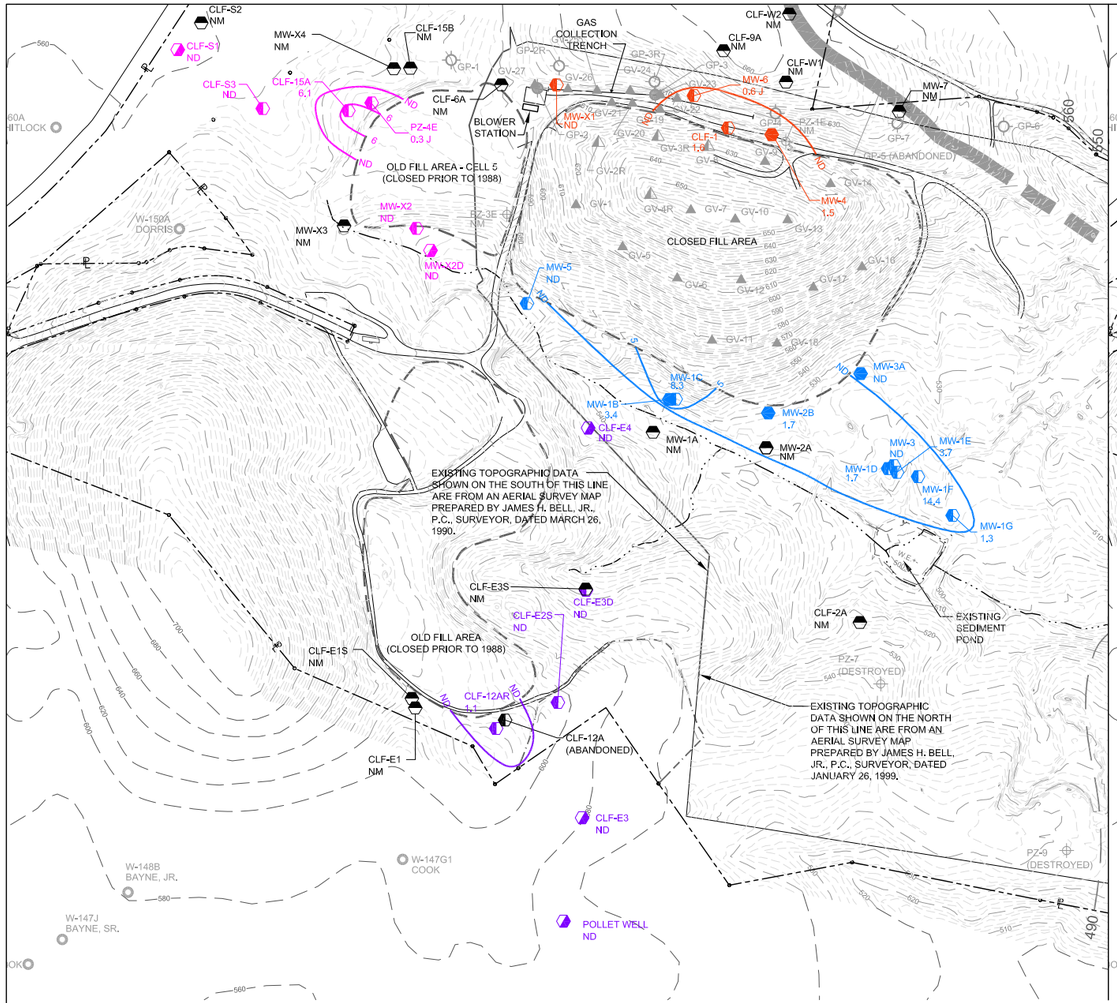

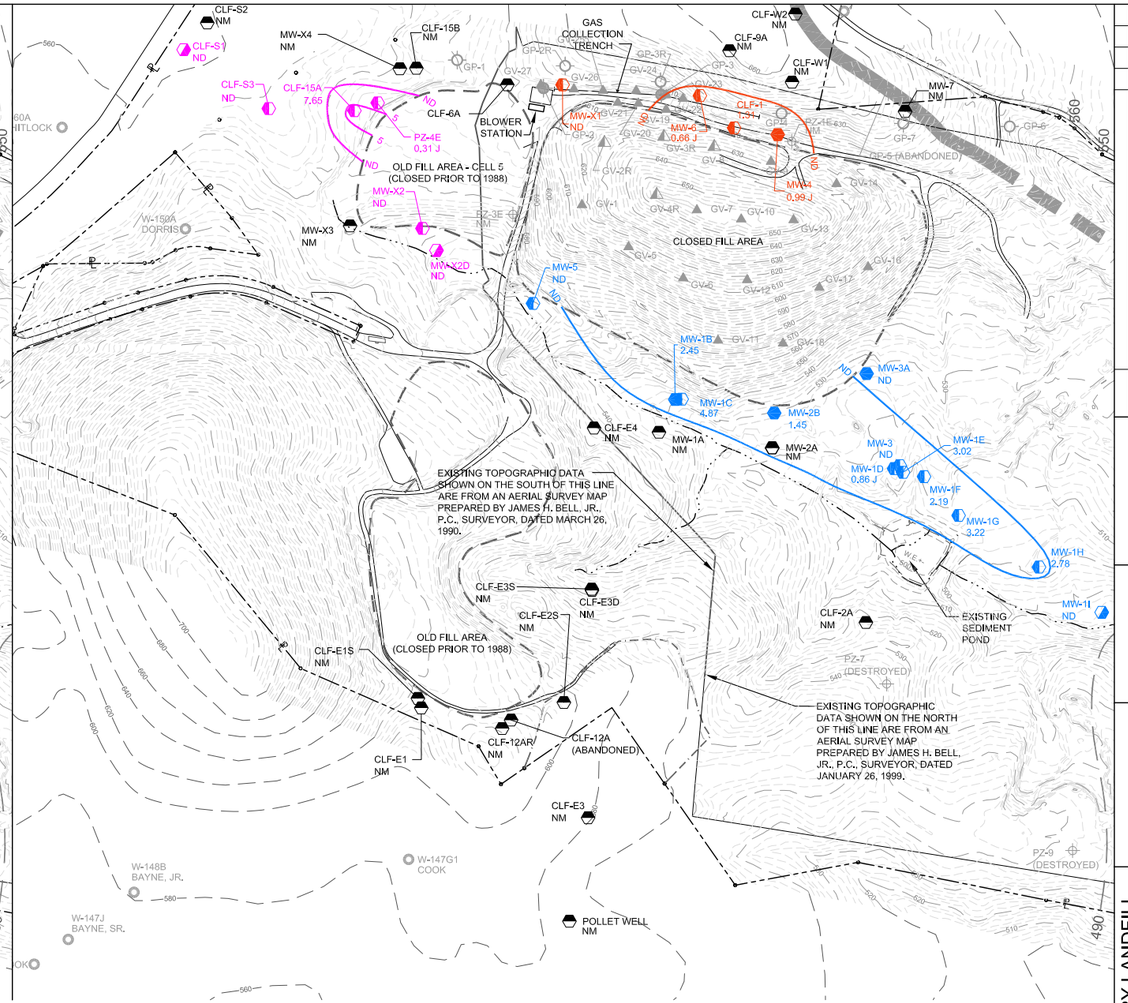

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9. MW-1F WAS SAMPLED ON JUNE 22, 2011.
10. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
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LEGEND

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APRIL 2014

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GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

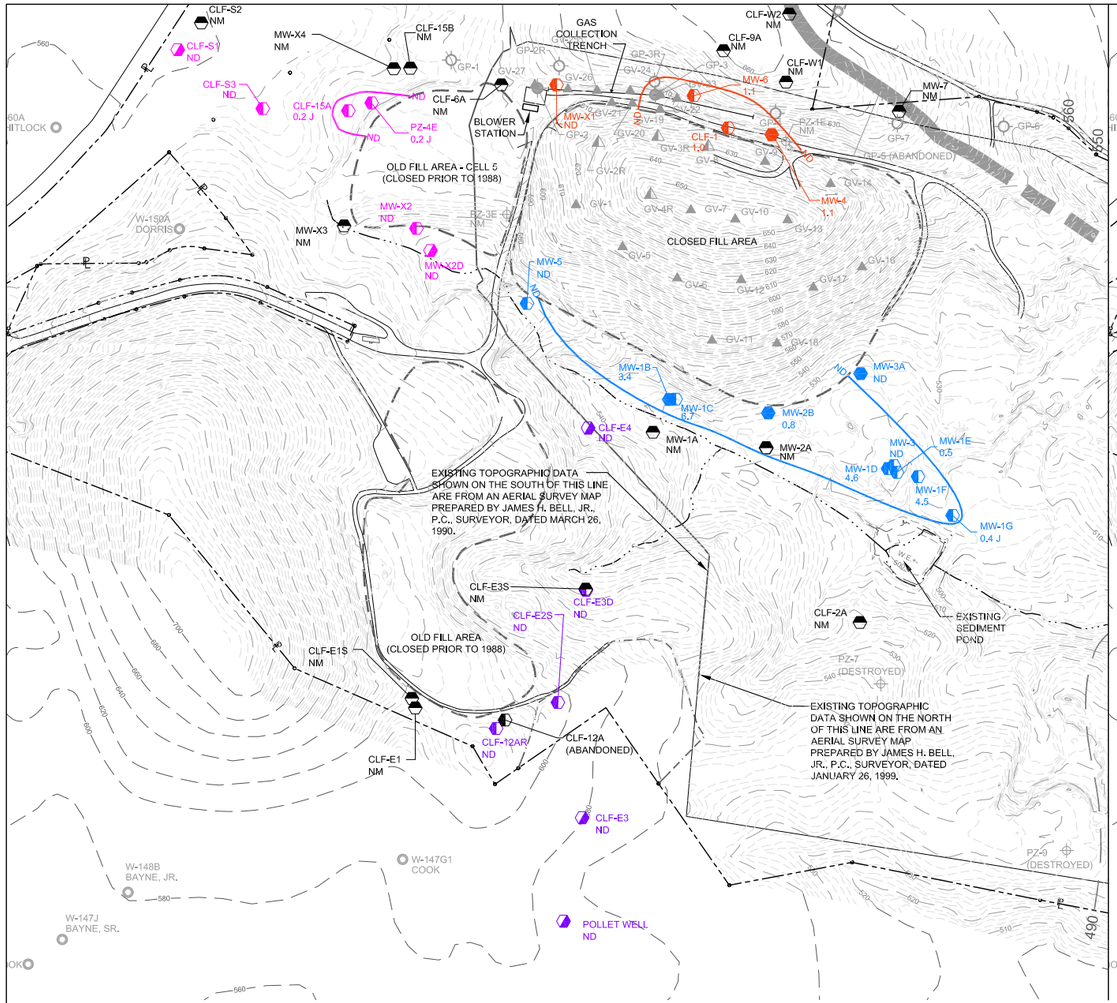
TRICHLOROETHENE ISOPLETH PERMIT NO. 251

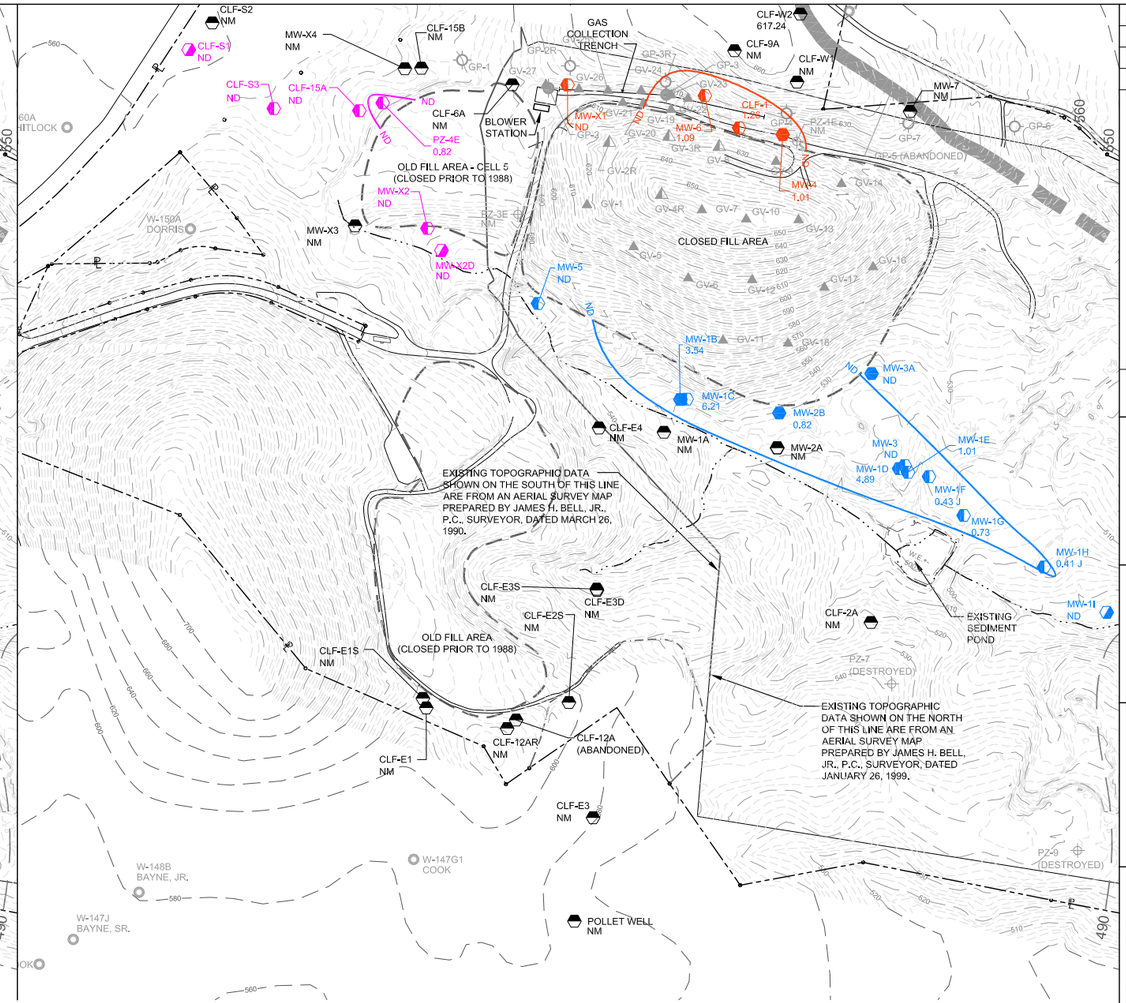
PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
10

N:\DWGS\CULPEPER\CASE\201410-Trichloroethene Isopleth.dwg Layout=10 Trichloroethene Isopleth





MAY 2011

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7. ALL WELLS WERE SAMPLED ON MAY 4 AND 5, 2011.
8. RESAMPLE EVENTS WERE PERFORMED ON JUNE 15, 2011 AND JUNE 22, 2011.
9. MW-1F WAS SAMPLED ON JUNE 22, 2011.
10. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
11. THE ND ISOCONTOUR IS INFERRED

LEGEND

- 640 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- ND — VINYL CHLORIDE CONTOUR IN PLUME CLFP-1(µg/L)
- ND — VINYL CHLORIDE CONTOUR IN PLUME CLFP-2 (µg/L)
- ND — VINYL CHLORIDE CONTOUR IN PLUME CLFP-3 (µg/L)
- ND — VINYL CHLORIDE CONTOUR IN PLUME CLFP-4 (µg/L)
- GROUNDWATER TABLE DIVIDE
- PROPERTY LINE
- FACILITY BOUNDARY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- MW-3A — COMPLIANCE GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1A — OBSERVATION WELL LOCATION AND IDENTIFICATION
- CLF-D15A — PERFORMANCE WELL LOCATION AND IDENTIFICATION
- CLF-51 — SENTINEL WELL LOCATION AND IDENTIFICATION
- PZ-1E — PIEZOMETER LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GP-4 — GAS PROBE LOCATION AND IDENTIFICATION
- GP-3 — OBSERVATION GAS PROBE LOCATION AND IDENTIFICATION
- GV-3 — APPROXIMATE GAS VENT LOCATION AND IDENTIFICATION
- GV-8 — GAS WELL LOCATION AND IDENTIFICATION
- FERRIS — RESIDENTIAL WELL LOCATION AND IDENTIFICATION
- (NM) — NOT MEASURED
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- µg/L — MICROGRAMS PER LITER

APRIL 2014

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 10 FEET (SEE ALSO NOTE 6).
2. THE CORRECTIVE ACTION MONITORING NETWORK WELLS HAVE BEEN COLOR-CODED ACCORDINGLY. MW-20 REMAINS BLACK SINCE IT IS SHARED AS AN UPGRADIENT WELL FOR THE FOUR CORRECTIVE ACTION MONITORING NETWORKS (CLFP-1, CLFP-2, CLFP-3, AND CLFP-4).
3. LOCATIONS OF ALL WELLS, PROBES, AND SPRINGS ARE APPROXIMATE.
4. TOPOGRAPHY OUTSIDE OF LANDFILL BOUNDARY WAS DIGITIZED FROM 7.5 MIN. USGS QUADRANGLE, CASTLETON, VA, REVISED 1984. TOPOGRAPHIC CONTOUR INTERVAL = 20 FEET.
5. CLF-1, CLF-12AR, CLF-15A, CLF-E3D, CLF-E4, MW-1C, MW-6 AND MW-X2D, SURVEY INFORMATION PROVIDED BY DEWBARRY, 14115 LOVERS LANE, SUITE 20, CULPEPER, VIRGINIA 22701-4167, (540) 727.2860, www.dewberry.com, ON 08/14/08.
6. SURVEY INFORMATION FOR MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, AND MW-1I PROVIDED BY JAMES CUBBAGE, JR.
7. ALL WELLS WERE SAMPLED ON APRIL 8 AND 9, 2014.
8. A RESAMPLE EVENT WAS PERFORMED ON MAY 14, 2014.
9. THE ND ISOCONTOUR IS INFERRED.

GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 9/30/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

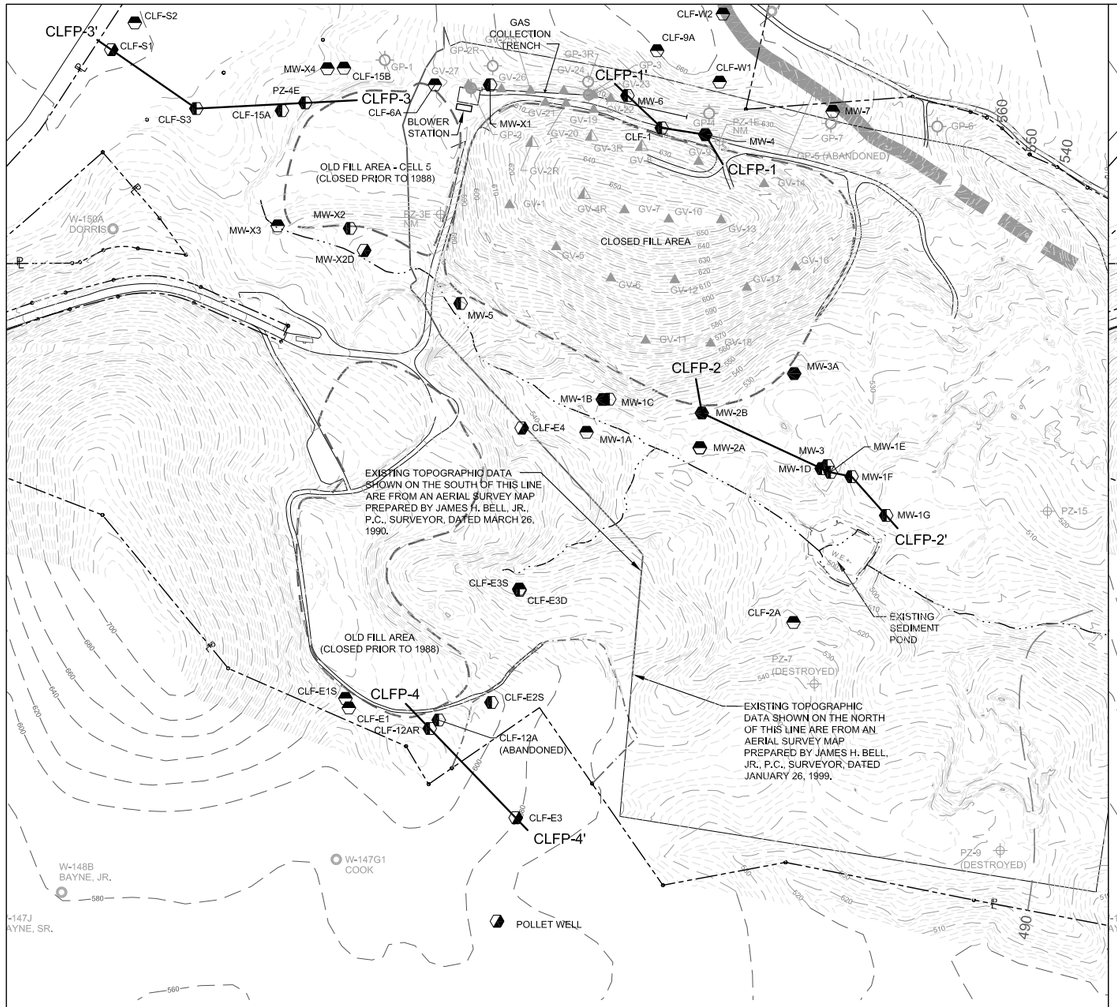
VINYL CHLORIDE ISOPLETH
PERMIT NO. 251

PROJECT NO.
310.1501.03

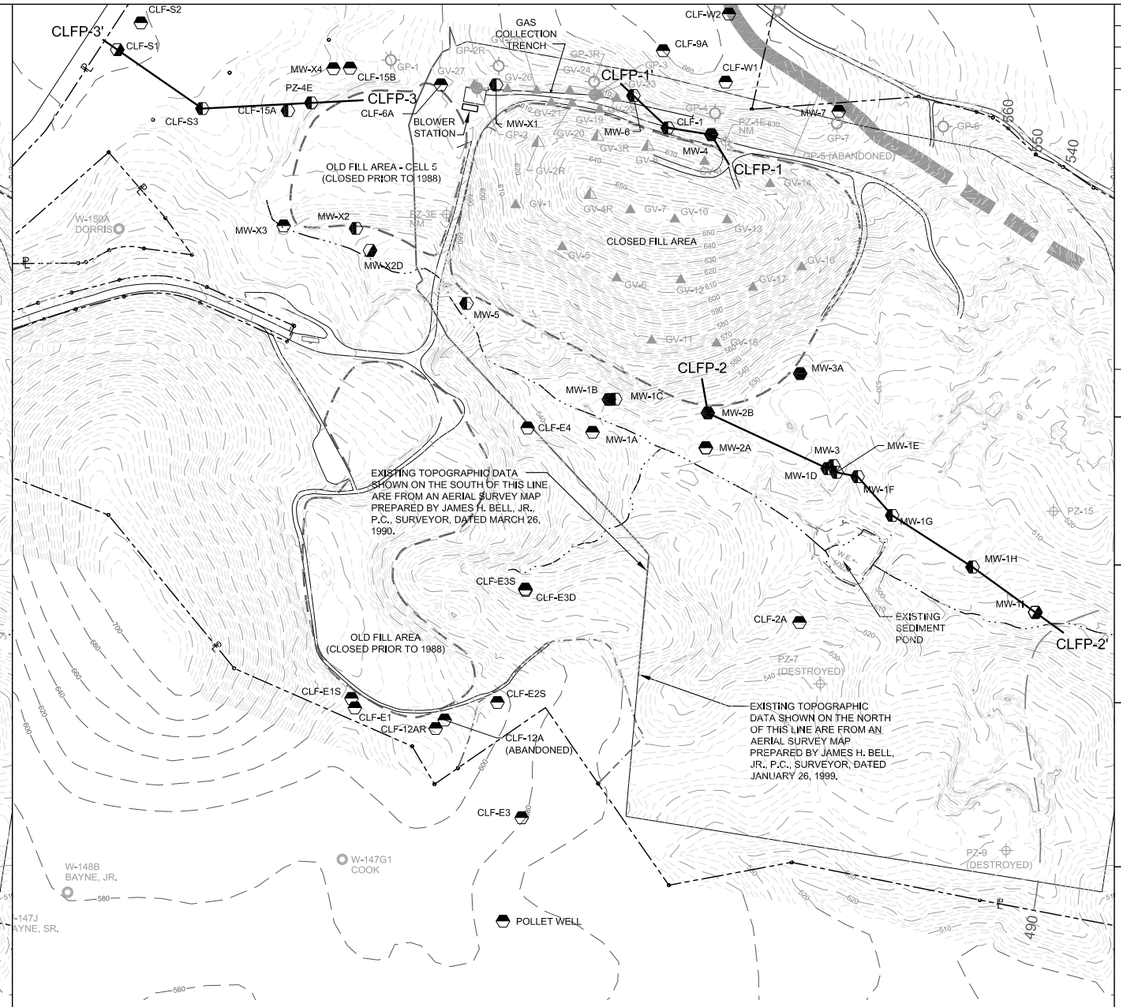
SCALE
AS SHOWN

DRAWING NO.
11

N:\DWGS\CULPEPER\CASE\2014\11-Vinyl Chloride Isopleth\dwg Layout=11 Vinyl Chloride Isopleth



MAY 2011



APRIL 2014

GRAPHIC SCALE
0 100 200 400
(FEET)

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
1604 OWNBY LANE
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PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

GEOLOGIC CROSS SECTIONS
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
12

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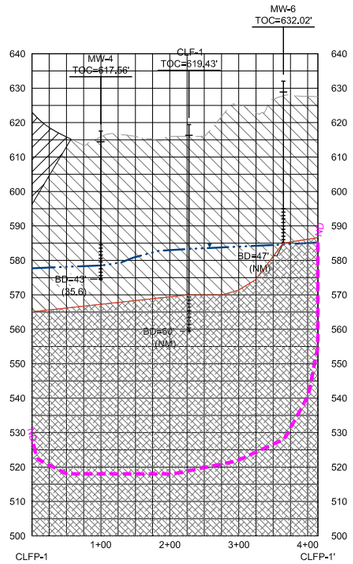
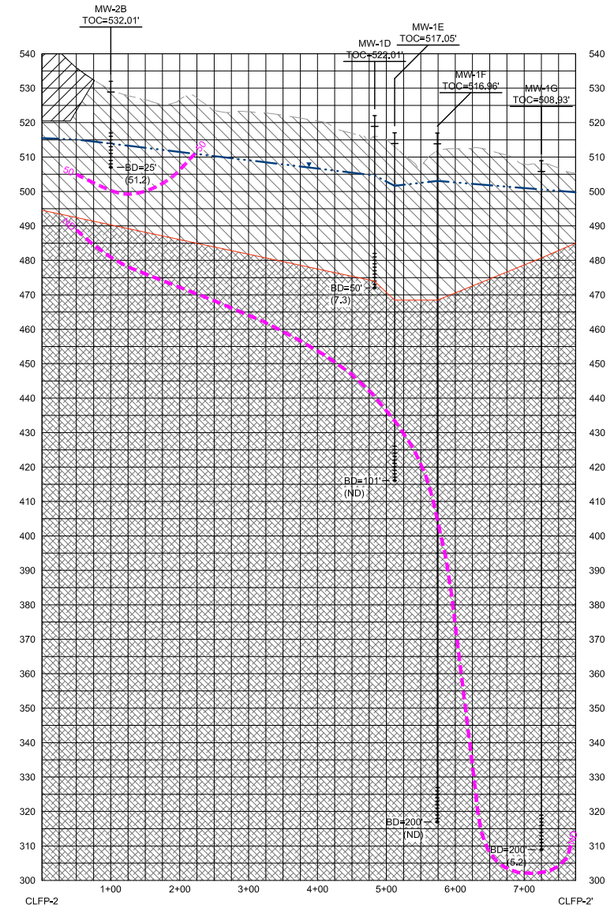


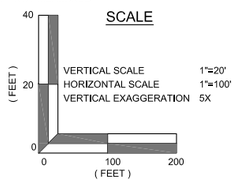
CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON MAY 2, 2011.
3. WELLS WERE SAMPLED ON MAY 3 - 5, AND JUNE 22, 2011. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED



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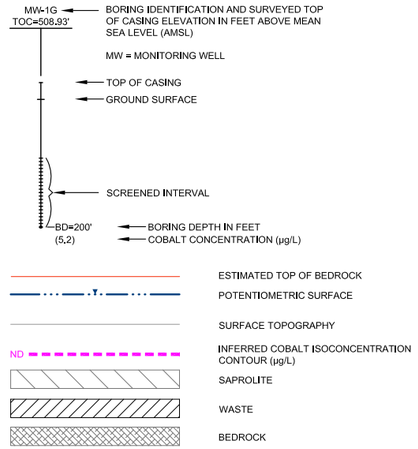

NO	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/11/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

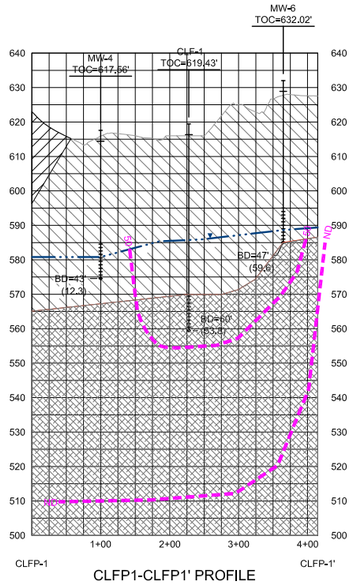
CROSS SECTIONS - MAY 2011
COBALT
PERMIT NO. 251

PROJECT NO.
310.1501.03

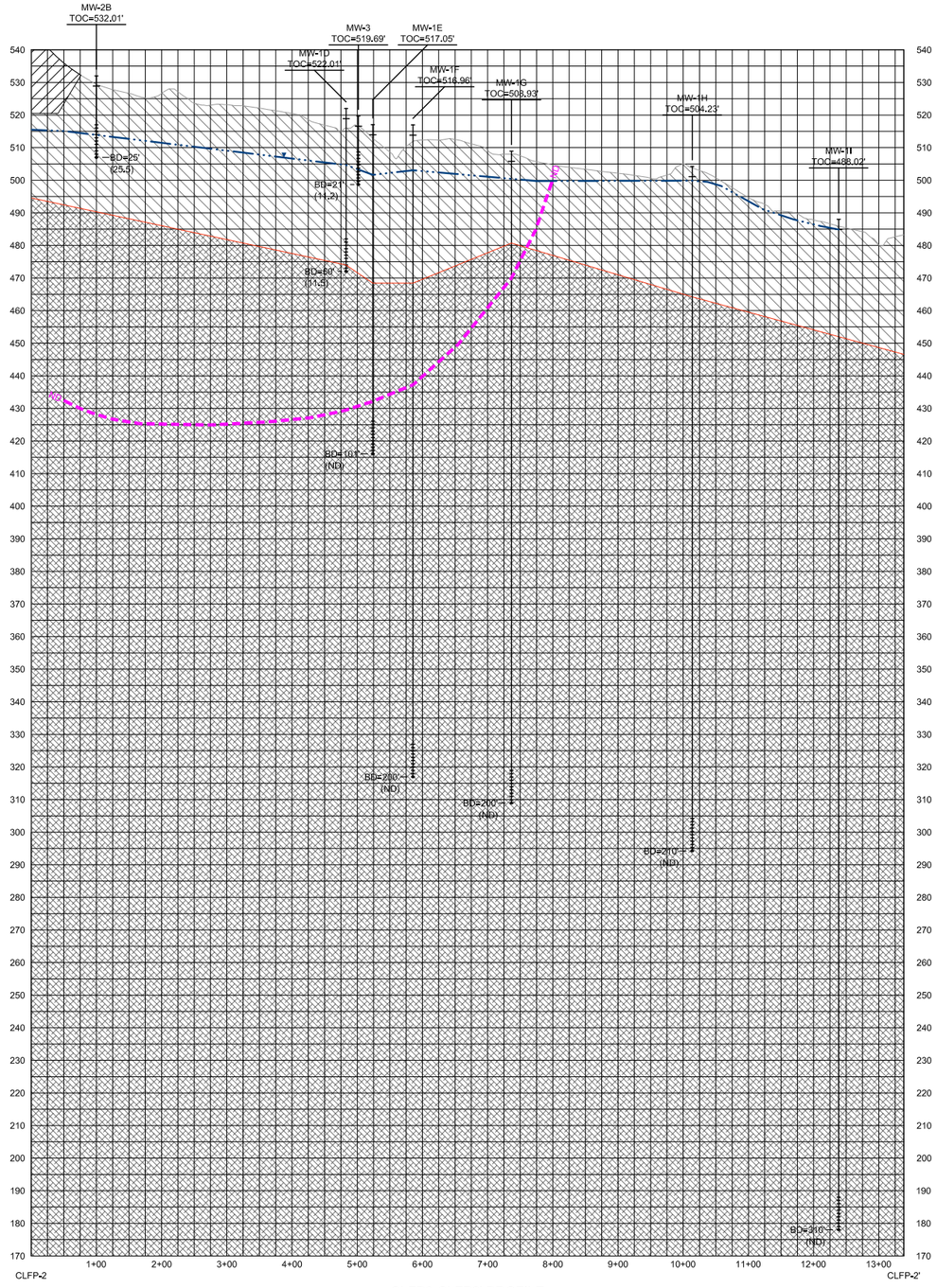
SCALE
AS SHOWN

DRAWING NO.
13A

N:\DWGS\CULPEPER\CASE\20141113A-Cobalt Section 2011.dwg Layout=13A Cobalt Section 2011



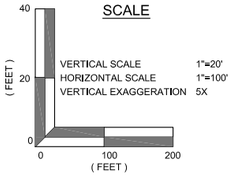
CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON APRIL 7, 2014.
3. WELLS WERE SAMPLED ON APRIL 8 & 9, 2014.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED



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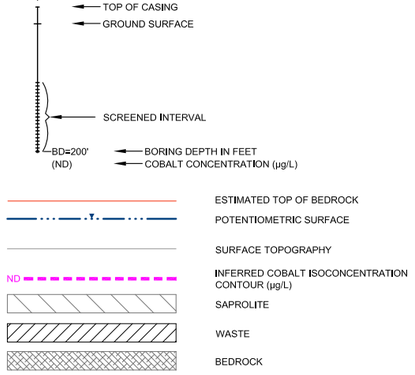

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTIONS - APRIL 2014
COBALT
PERMIT NO. 251

PROJECT NO.
310.1501.03

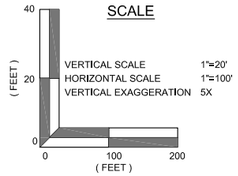
SCALE
AS SHOWN

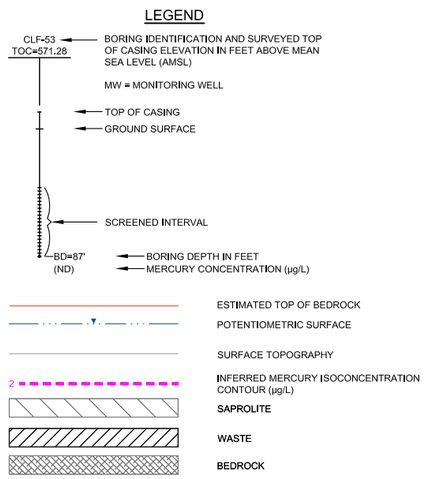
DRAWING NO.
13B

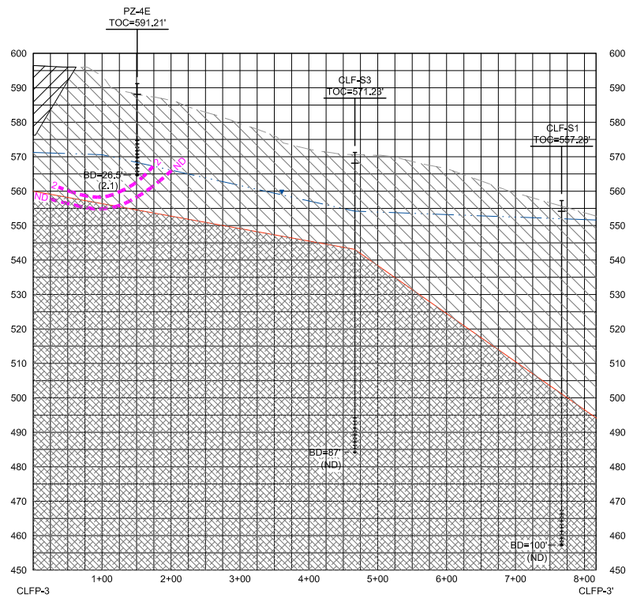
N:\DWGS\CULPEPER\CASE\2014\13B-Cobalt Section 2014.dwg Layout=13B Cobalt Section 2014

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON MAY 2, 2011.
3. WELLS WERE SAMPLED ON MAY 3 - 5, AND JUNE 22, 2011. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED







CLFP3-CLFP3' PROFILE

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTION - MAY 2011
MERCURY
PERMIT NO. 251

PROJECT NO.
310.1501.03

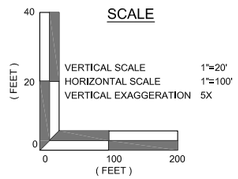
SCALE
AS SHOWN

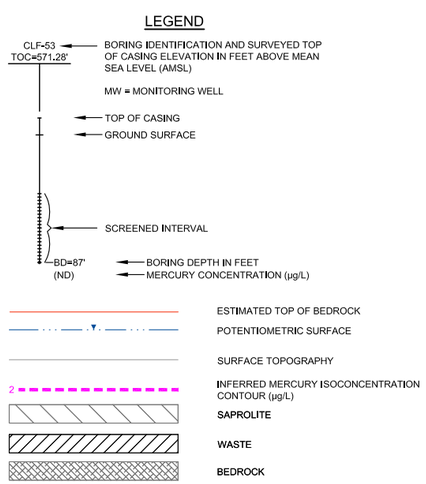
DRAWING NO.
14A

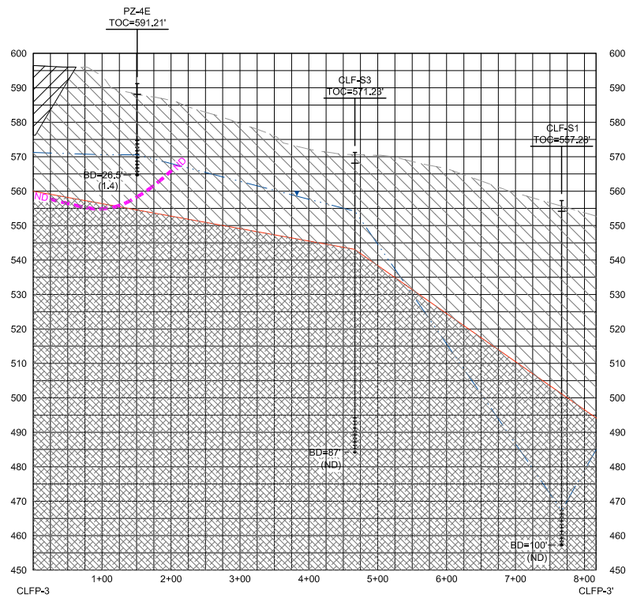
N:\DWGS\CULPEPER\CASE\2014\14A-Mercury Section 2011.dwg Layout=14A Mercury Section 2011

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON APRIL 7, 2014.
3. WELLS WERE SAMPLED ON APRIL 8 & 9, 2014.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED







CLFP3-CLFP3' PROFILE

NO	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

DATE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTION - APRIL 2014
MERCURY
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

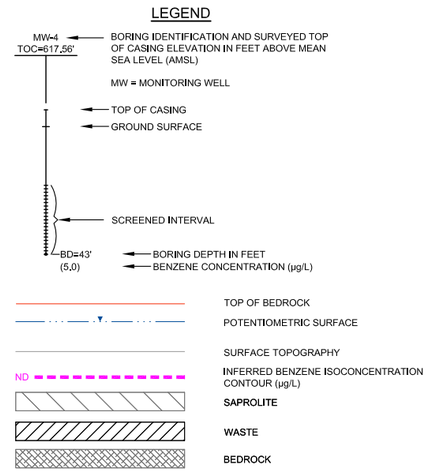
DRAWING NO.
14B

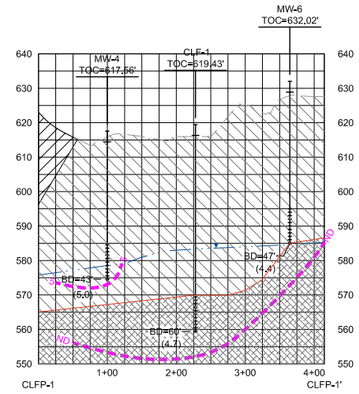
N:\DWGS\CULPEPER\CASE\2014\14B-Mercury Section 2014.dwg Layout=14B Mercury Section 2014

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON MAY 2, 2011.
3. WELLS WERE SAMPLED ON MAY 3 - 5, AND JUNE 22, 2011. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED

LEGEND





CLFP1-CLFP1' PROFILE

NO	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

DATE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTION - MAY 2011
BENZENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

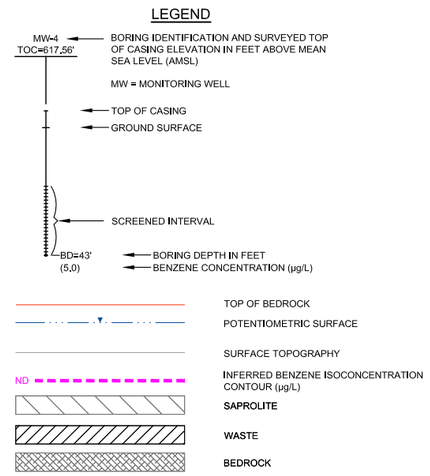
DRAWING NO.
15A

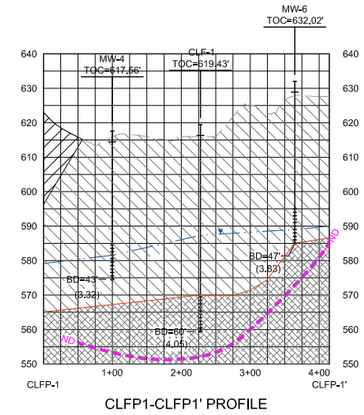
N:\DWGS\CULPEPER\CASE\2014\15A-Benzene Section 2011.dwg Layout=15A Benzene Section 2011

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON APRIL 7, 2014.
3. WELLS WERE SAMPLED ON APRIL 8 & 9, 2014.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED

LEGEND





CLFP1-CLFP1' PROFILE

NO	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

DATE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

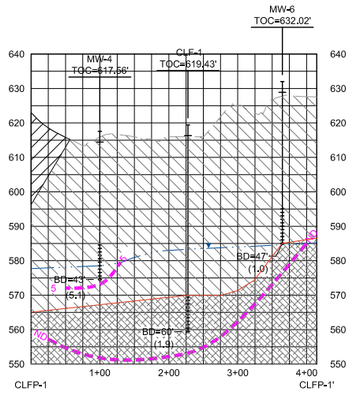
CROSS SECTION - APRIL 2014
BENZENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

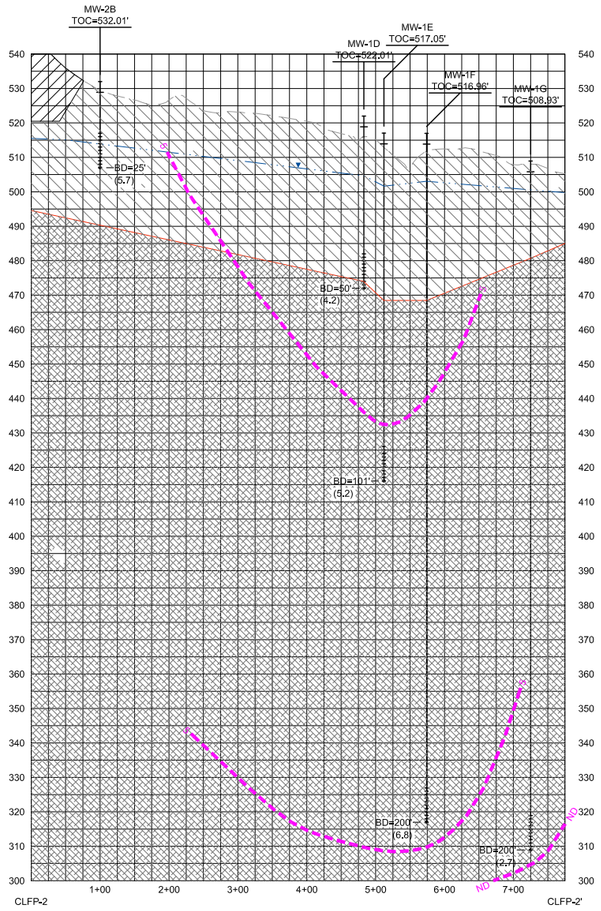
SCALE
AS SHOWN

DRAWING NO.
15B

N:\DWGS\CULPEPER\CASE\20141115B-Benzene Section 2014.dwg Layout=15B Benzene Section 2014



CLFP1-CLFP1' PROFILE



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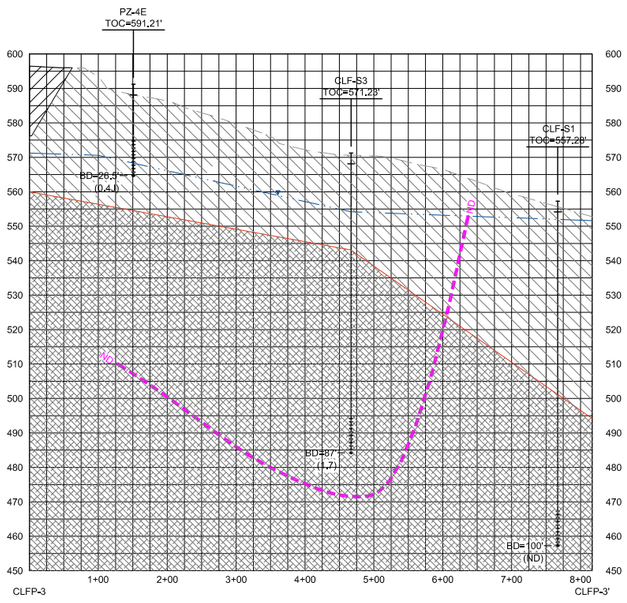
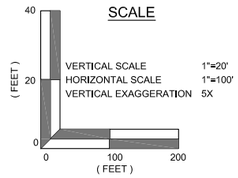


CLFP3-CLFP3' PROFILE

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON MAY 2, 2011.
3. WELLS WERE SAMPLED ON MAY 3 - 5, AND JUNE 22, 2011. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED



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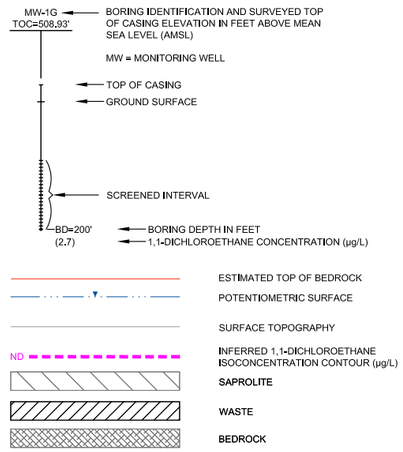

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/11/14

JOYCE ENGINEERING
1804 OWNBY LANE
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

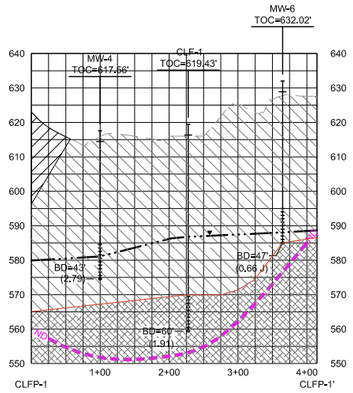
CROSS SECTIONS - MAY 2011
1,1-DICHLOROETHANE
PERMIT NO. 251

PROJECT NO.
310.1501.03

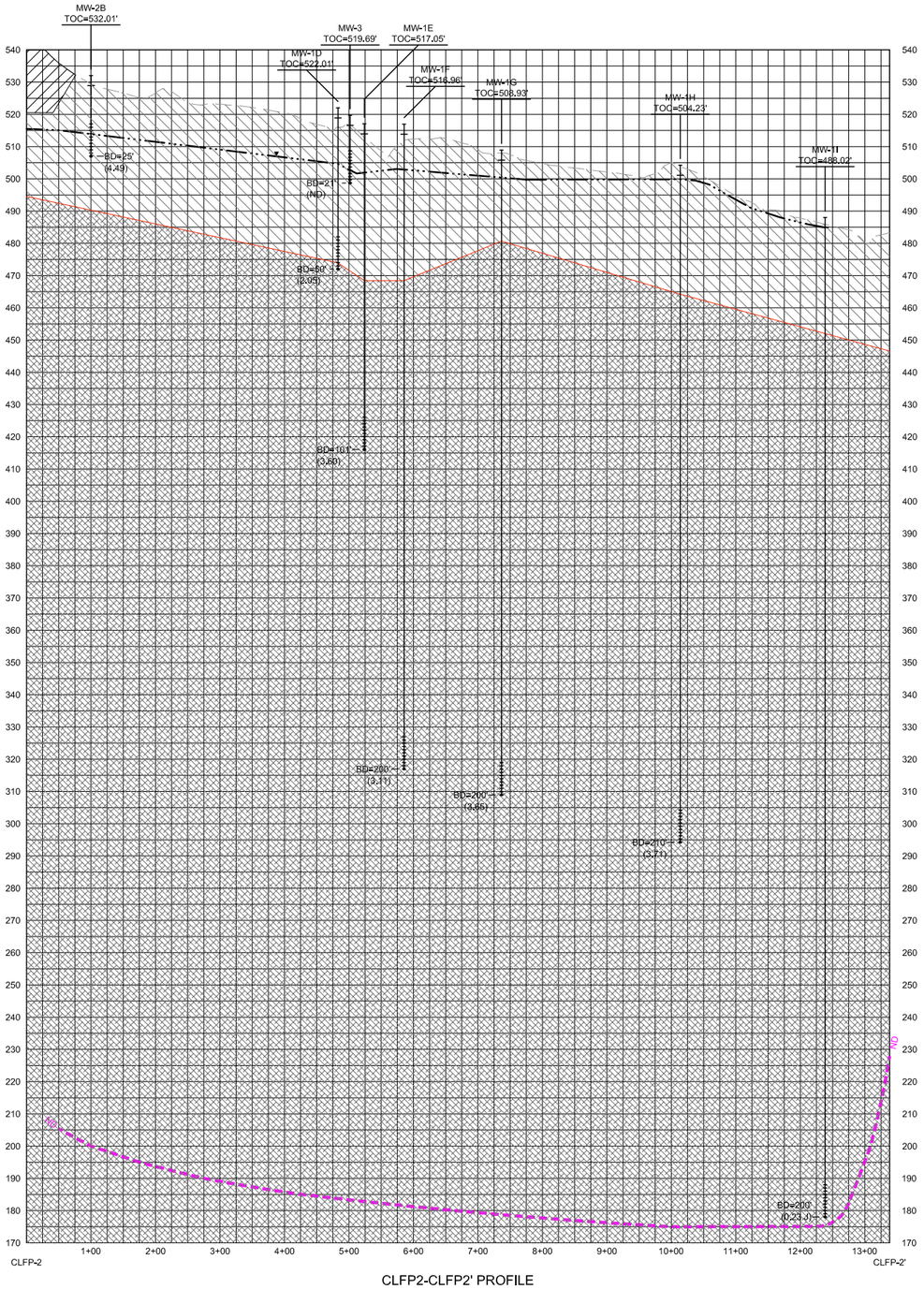
SCALE
AS SHOWN

DRAWING NO.
16A

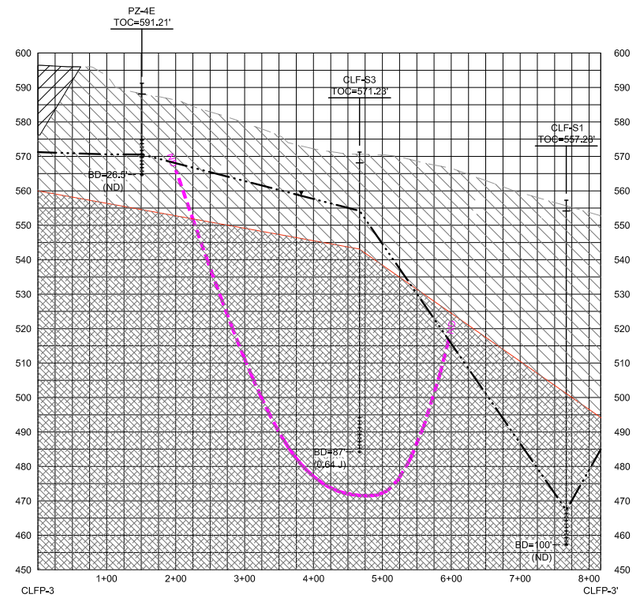
N:\DWGS\CULPEPER\CASE\20141\16A-1,1 Dichloroethane Section 2011.dwg Layout=16A 1 1 Dichloroethane Section 2011



CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE

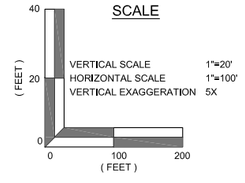


CLFP3-CLFP3' PROFILE

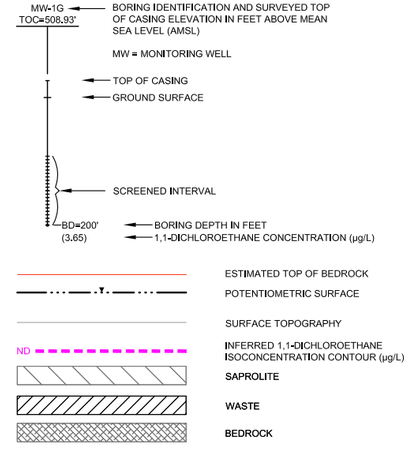
NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON APRIL 7, 2014.
3. WELLS WERE SAMPLED ON APRIL 8 & 9, 2014.
4. ND = NOT DETECTED
5. J = ESTIMATED
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED

SCALE



LEGEND



NO.	BY	CK	APP
REVISIONS AND RECORD OF ISSUE			
DATE			

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPPER COUNTY, VIRGINIA

CROSS SECTIONS - APRIL 2014
1,1-DICHLOROETHANE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
16B

N:\DWGS\CULPEPER\CASE\2014\16B-1,1 Dichloroethane Section 2014.dwg Layout="16B 1,1 Dichloroethane Section 2014

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
2. STATIC WATER LEVELS WERE MEASURED ON MAY 2, 2011.
3. WELLS WERE SAMPLED ON MAY 3 - 5, AND JUNE 22, 2011. MW-1G WAS SAMPLED ON OCTOBER 6, 2011.
4. ND = NOT DETECTED
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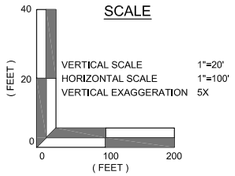
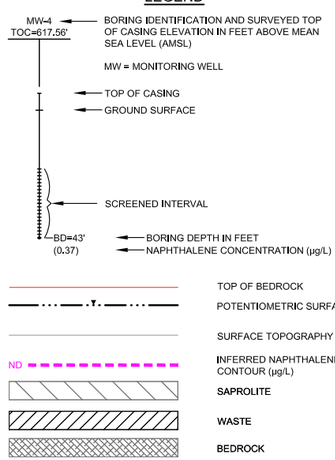
6. µg/L = MICROGRAMS PER LITER
7. NM = NOT MEASURED

SCALE



VERTICAL SCALE 1"=20'
HORIZONTAL SCALE 1"=100'
VERTICAL EXAGGERATION 5X

LEGEND



BORING IDENTIFICATION AND SURVEYED TOP OF CASING ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL)

MW = MONITORING WELL

TOP OF CASING

GROUND SURFACE

SCREENED INTERVAL

BORING DEPTH IN FEET

NAPHTHALENE CONCENTRATION (µg/L)

TOP OF BEDROCK

POTENTIOMETRIC SURFACE

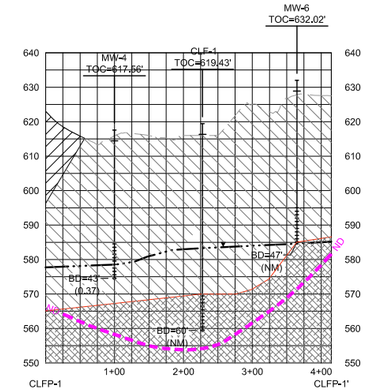
SURFACE TOPOGRAPHY

INFERRED NAPHTHALENE ISOCONCENTRATION CONTOUR (µg/L)

SAPROLITE

WASTE

BEDROCK



CLFP1-CLFP1' PROFILE

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTIONS - MAY 2011
NAPHTHALENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
17A

N:\DWGS\CULPEPER\CASE\2014\17A-Naphthalene Section 2011.dwg Layout=17A Naphthalene Section 2011

NOTES:

1. GROUNDWATER LEVEL ELEVATIONS WERE INFERRED BASED ON MONITORING WELL DATA AND TOPOGRAPHY.
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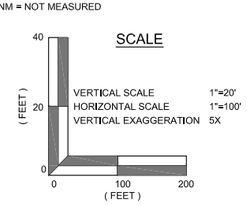

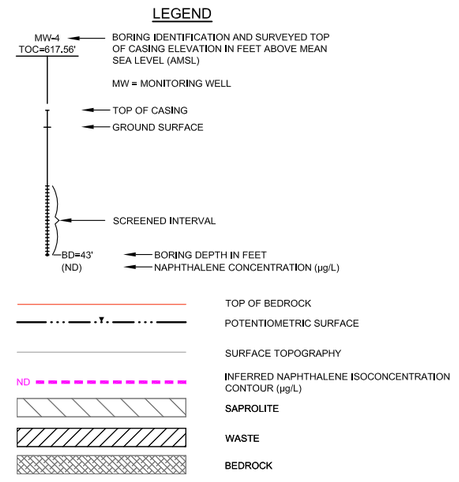

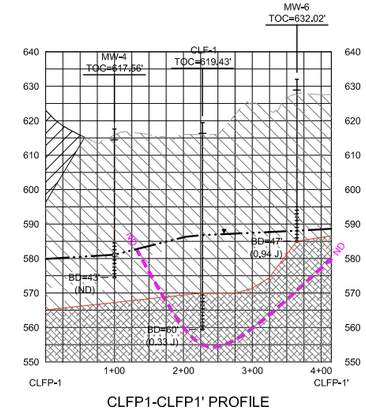

CLFP1-CLFP1' PROFILE

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

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DATE 10/1/14

JOYCE ENGINEERING
1604 OWNBY LANE
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

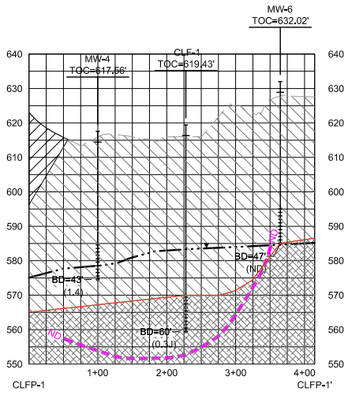
CROSS SECTIONS - MAY 2014
NAPHTHALENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

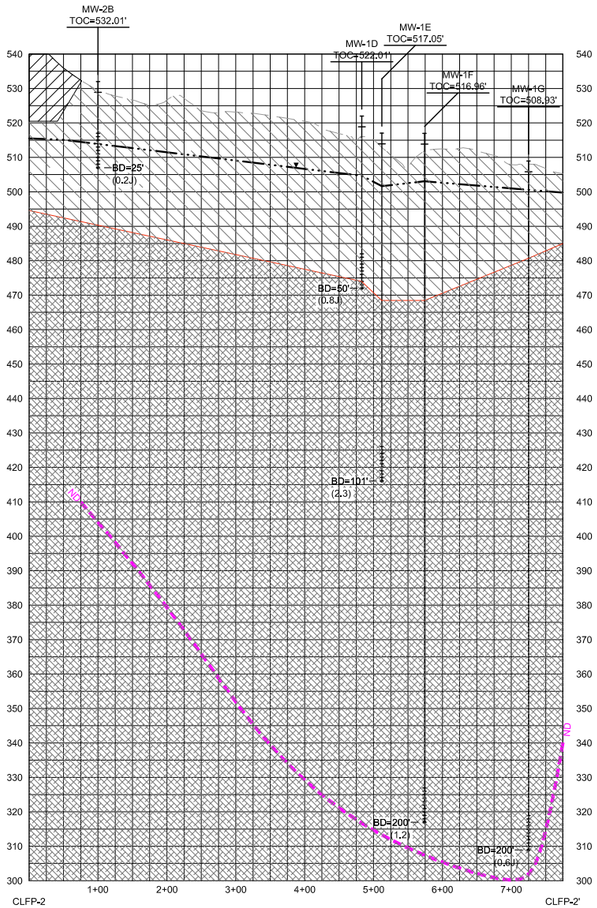
SCALE
AS SHOWN

DRAWING NO.
17B

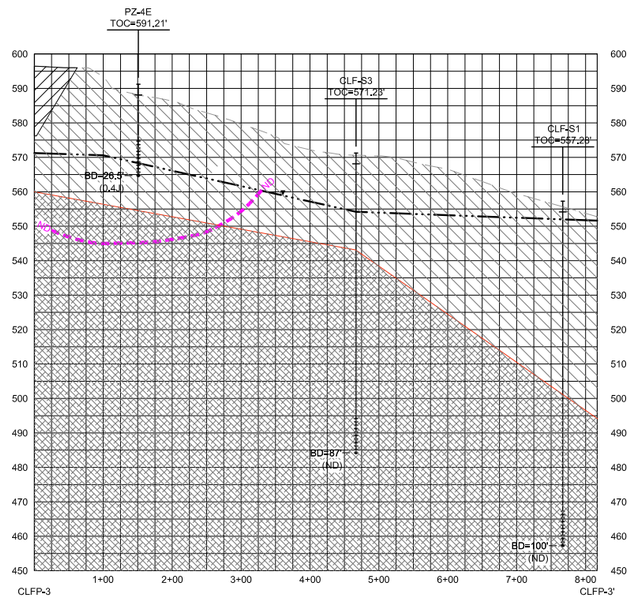
N:\DWGS\CULPEPER\CASE\2014\17B-Naphthalene Section 2014.dwg Layout=17B Naphthalene Section 2014



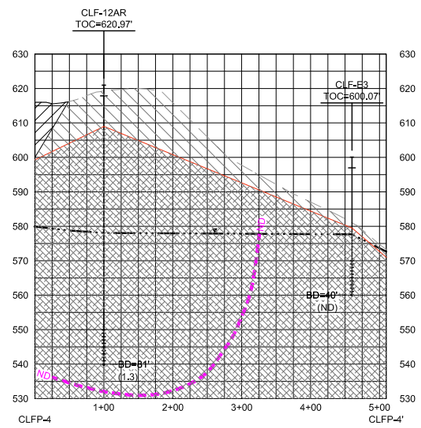
CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE



CLFP4-CLFP4' PROFILE

NOTES:

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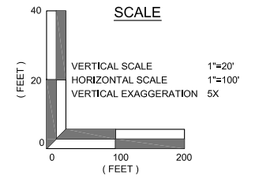

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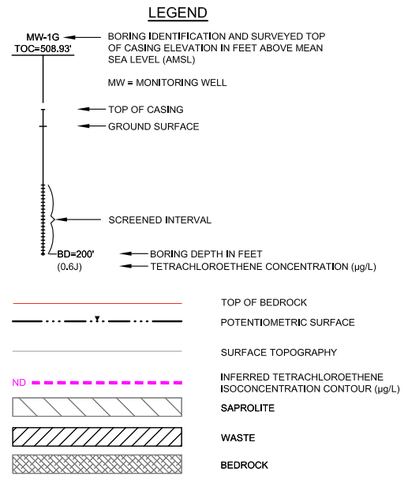

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DATE 10/1/14

JOYCE ENGINEERING
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

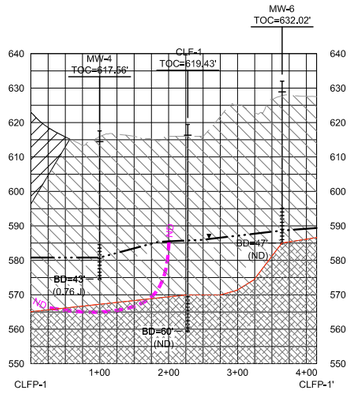
CROSS SECTIONS - MAY 2011
TETRACHLOROETHENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

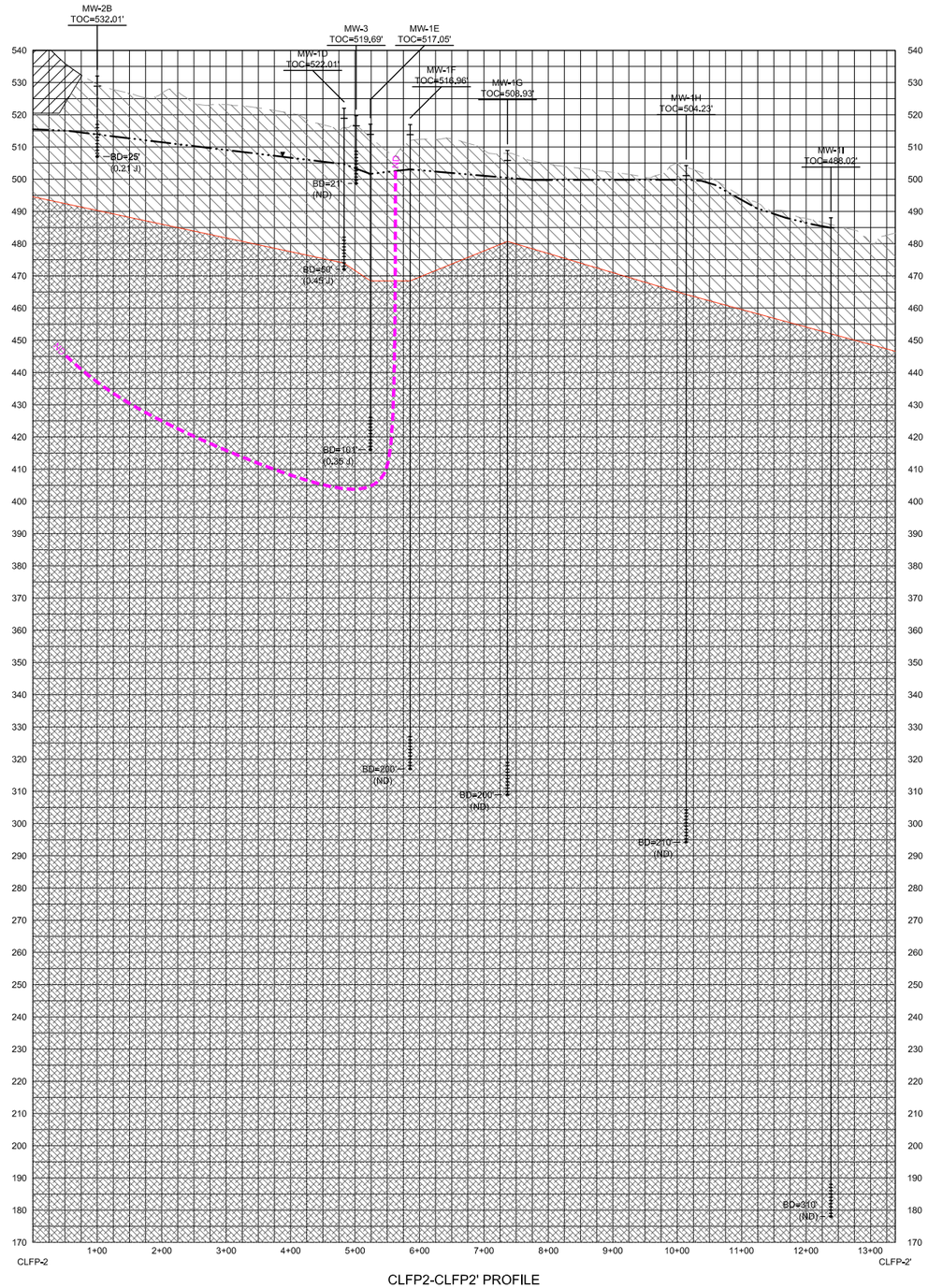
SCALE
AS SHOWN

DRAWING NO.
18A

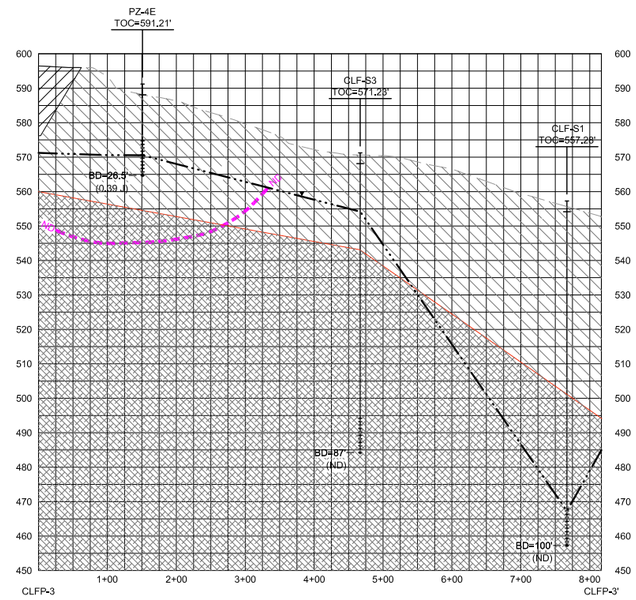
N:\DWGS\CULPEPER\CASE\2014\18A Tetrachloroethene Section 2011.dwg Layout=18A Tetrachloroethene Section 2011



CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE

NOTES:

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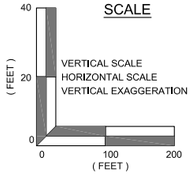
SCALE



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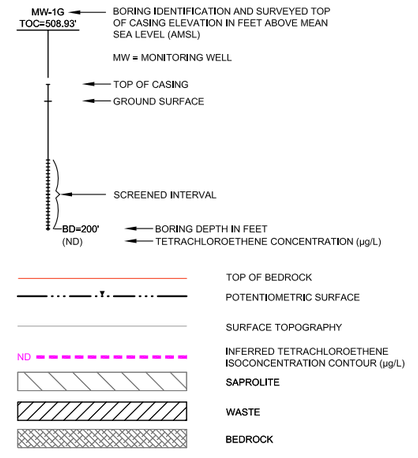

NO	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/11/14

JOYCE ENGINEERING
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

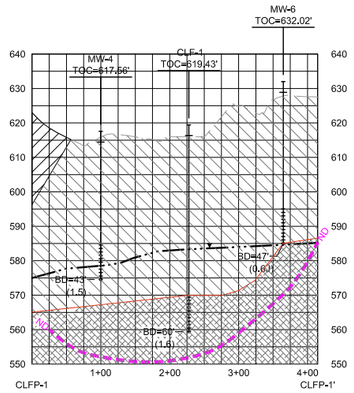
CROSS SECTIONS - APRIL 2014
TETRACHLOROETHENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

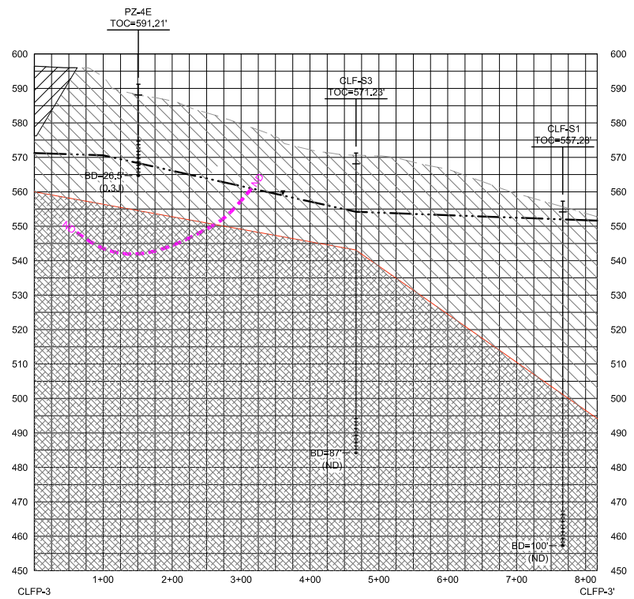
DRAWING NO.
18B

N:\DWGS\CULPEPER\CASE\2014\18B Tetrachloroethene Section 2014.dwg Layout=18B Tetrachloroethene Section 2014

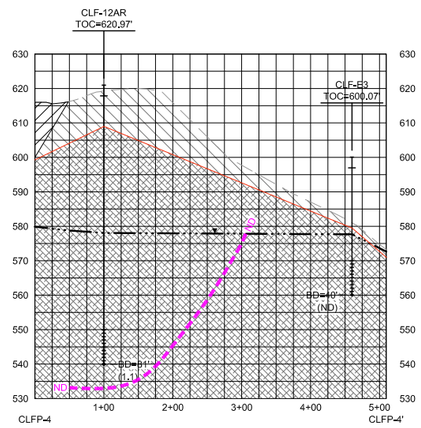


CLFP1-CLFP1' PROFILE

CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE



CLFP4-CLFP4' PROFILE

NOTES:

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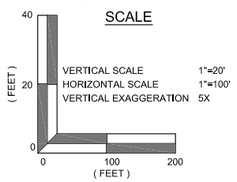
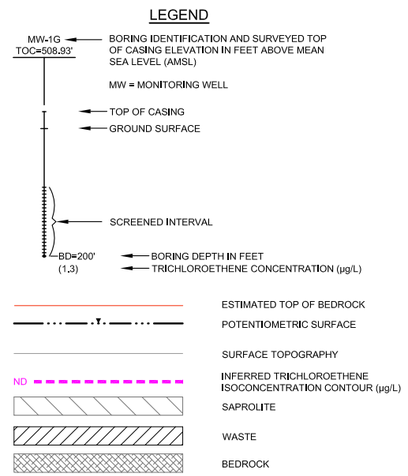
SCALE



VERTICAL SCALE 1"=20'
HORIZONTAL SCALE 1"=100'
VERTICAL EXAGGERATION 5X

LEGEND



NO	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

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APPROVED JGW
DATE 10/11/14

JOYCE ENGINEERING
1604 OWNBY LANE
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LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPPER COUNTY, VIRGINIA

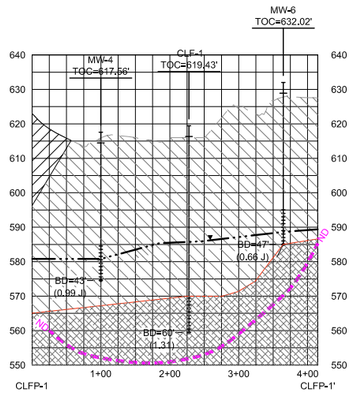
CROSS SECTIONS - MAY 2011
TRICHLOROETHENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

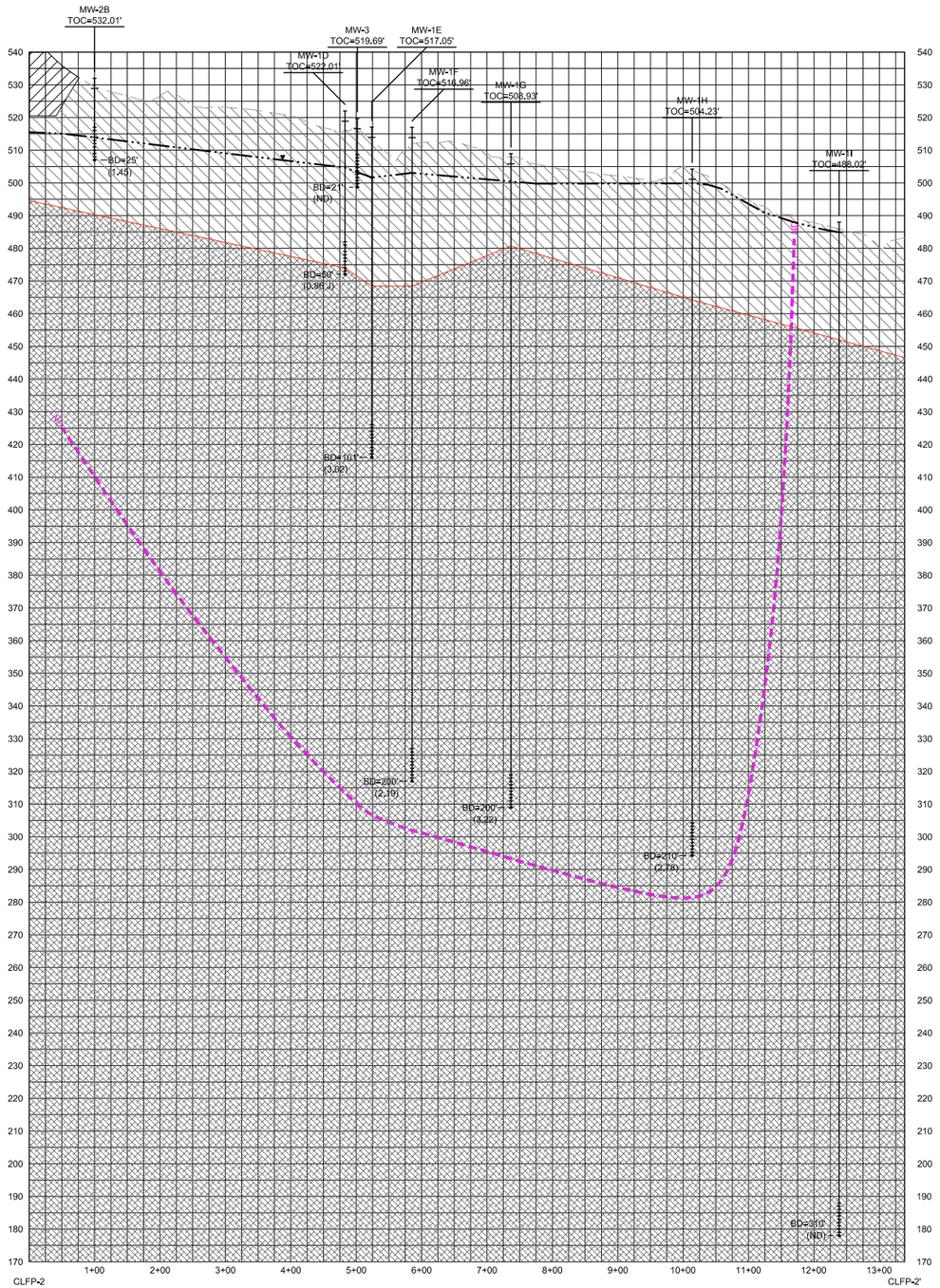
SCALE
AS SHOWN

DRAWING NO.
19A

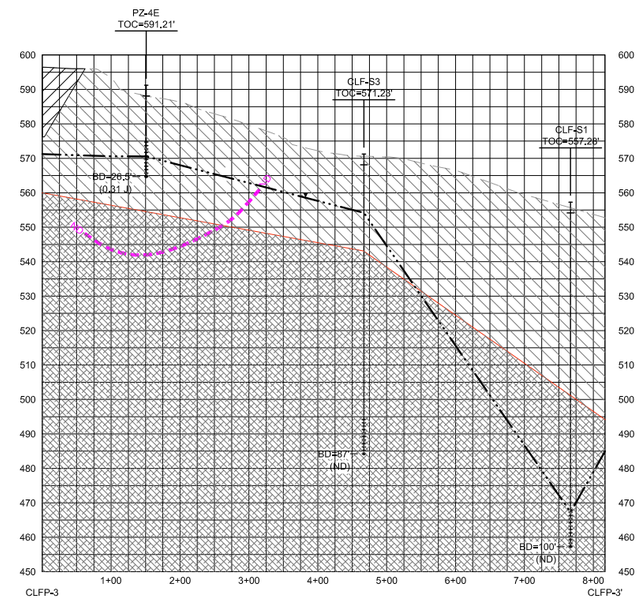
N:\DWGS\CULPEPER\CASE\2014\19A-TrichloroethenSection 2011.dwg Layout=19A TrichloroethenSection 2011



CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE

NOTES:

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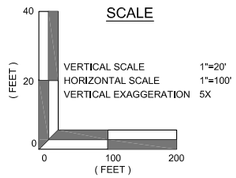

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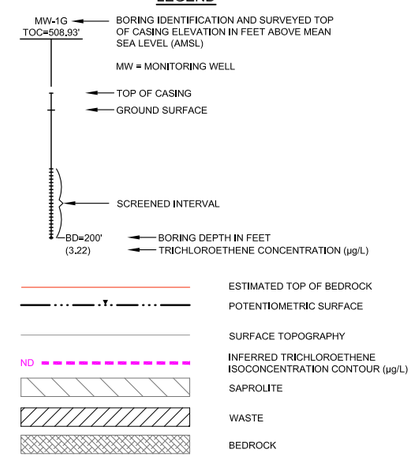


NO	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

DATE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
1604 DWNBY LANE
ROANOKE, VA 24020
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

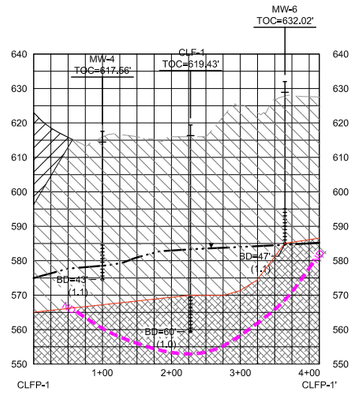
CROSS SECTIONS - APRIL 2014
TRICHLOROETHENE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

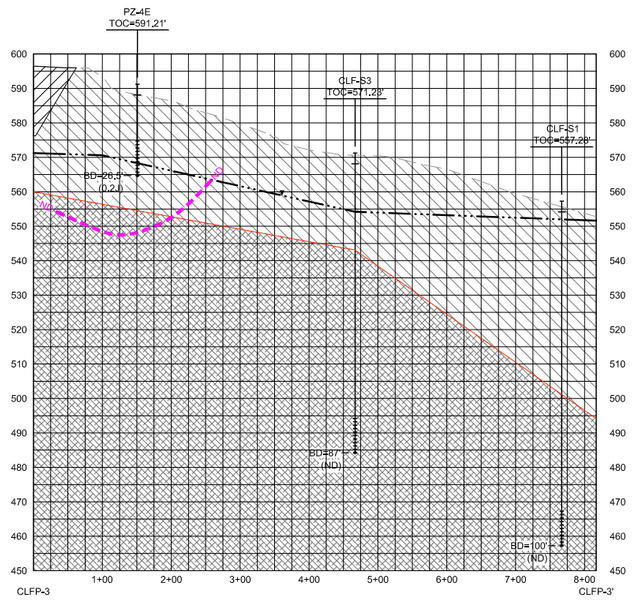
DRAWING NO.
19B

N:\DWGS\CULPEPER\CASE\2014\19B-TrichloroethenSection 2014.dwg Layout=19B TrichloroethenSection 2014



CLFP1-CLFP1' PROFILE

CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE

NOTES:

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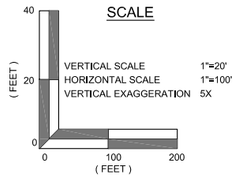
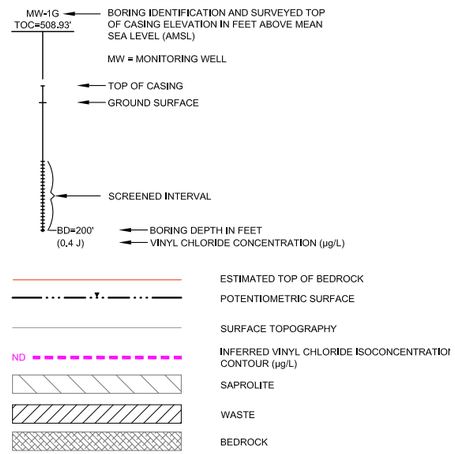
SCALE



VERTICAL SCALE 1"=20'
HORIZONTAL SCALE 1"=100'
VERTICAL EXAGGERATION 5X

LEGEND



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DATE 10/11/14

JOYCE ENGINEERING
1804 OWNBY LANE
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PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

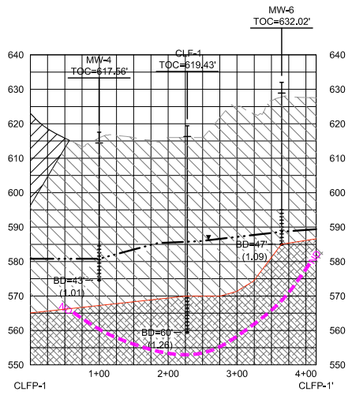
CROSS SECTIONS - MAY 2011
VINYL CHLORIDE
PERMIT NO. 251

PROJECT NO.
310.1501.03

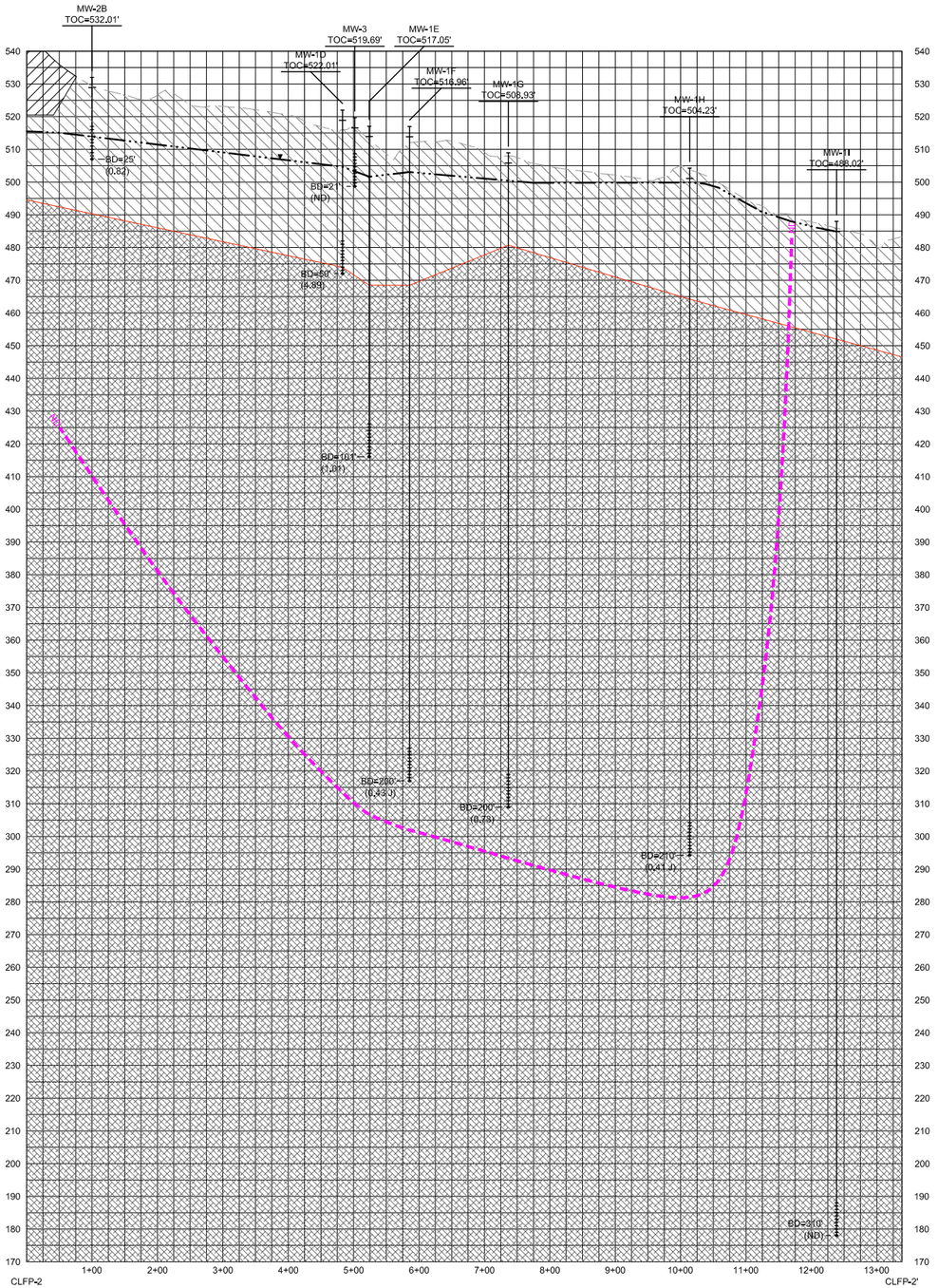
SCALE
AS SHOWN

DRAWING NO.
20A

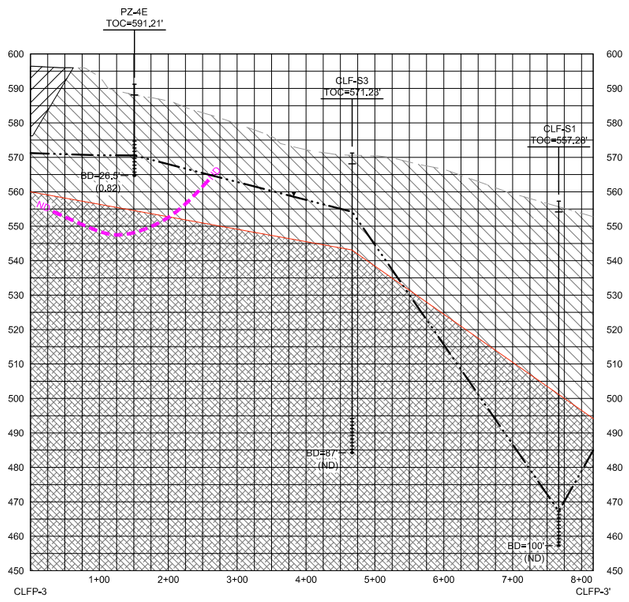
N:\DWGS\CULPEPER\CASE\2014\20A-Vinyl Chloride Section 2011.dwg Layout=20A Vinyl Chloride Section 2011



CLFP1-CLFP1' PROFILE



CLFP2-CLFP2' PROFILE



CLFP3-CLFP3' PROFILE

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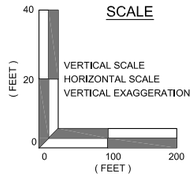
7. NM = NOT MEASURED

SCALE



VERTICAL SCALE 1"=20'
HORIZONTAL SCALE 1"=100'
VERTICAL EXAGGERATION 5X

LEGEND

MW-1G
TOC=508.93' — BORING IDENTIFICATION AND SURVEYED TOP OF CASING ELEVATION IN FEET ABOVE MEAN SEA LEVEL (AMSL)

MW = MONITORING WELL

TOP OF CASING

GROUND SURFACE

SCREENED INTERVAL

BD=200'
(0.73) — BORING DEPTH IN FEET; VINYL CHLORIDE CONCENTRATION (µg/L)

ESTIMATED TOP OF BEDROCK

POTENTIOMETRIC SURFACE

SURFACE TOPOGRAPHY

ND — INFERRED VINYL CHLORIDE ISOCONCENTRATION CONTOUR (µg/L)

SAPROLITE

WASTE

BEDROCK

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED JCW
DRAWN DAS
CHECKED IAW
APPROVED JGW
DATE 10/1/14

JOYCE ENGINEERING
1604 OWNBY LANE
RICHMOND, VA 23220
PHONE: (804) 355-4520

LAUREL VALLEY CENTER SANITARY LANDFILL
CULPEPER COUNTY, VIRGINIA

CROSS SECTIONS - APRIL 2014
VINYL CHLORIDE
PERMIT NO. 251

PROJECT NO.
310.1501.03

SCALE
AS SHOWN

DRAWING NO.
20B

N:\DWGS\CULPEPER\CASE\2014\20B-Vinyl Chloride Section 2014.dwg Layout=20B Vinyl Chloride Section 2014

Attachment VIII:

Statistical Analysis and Time Series Data Plots for each GPS exceeding constituent identified within individual wells sampled during the CASE period

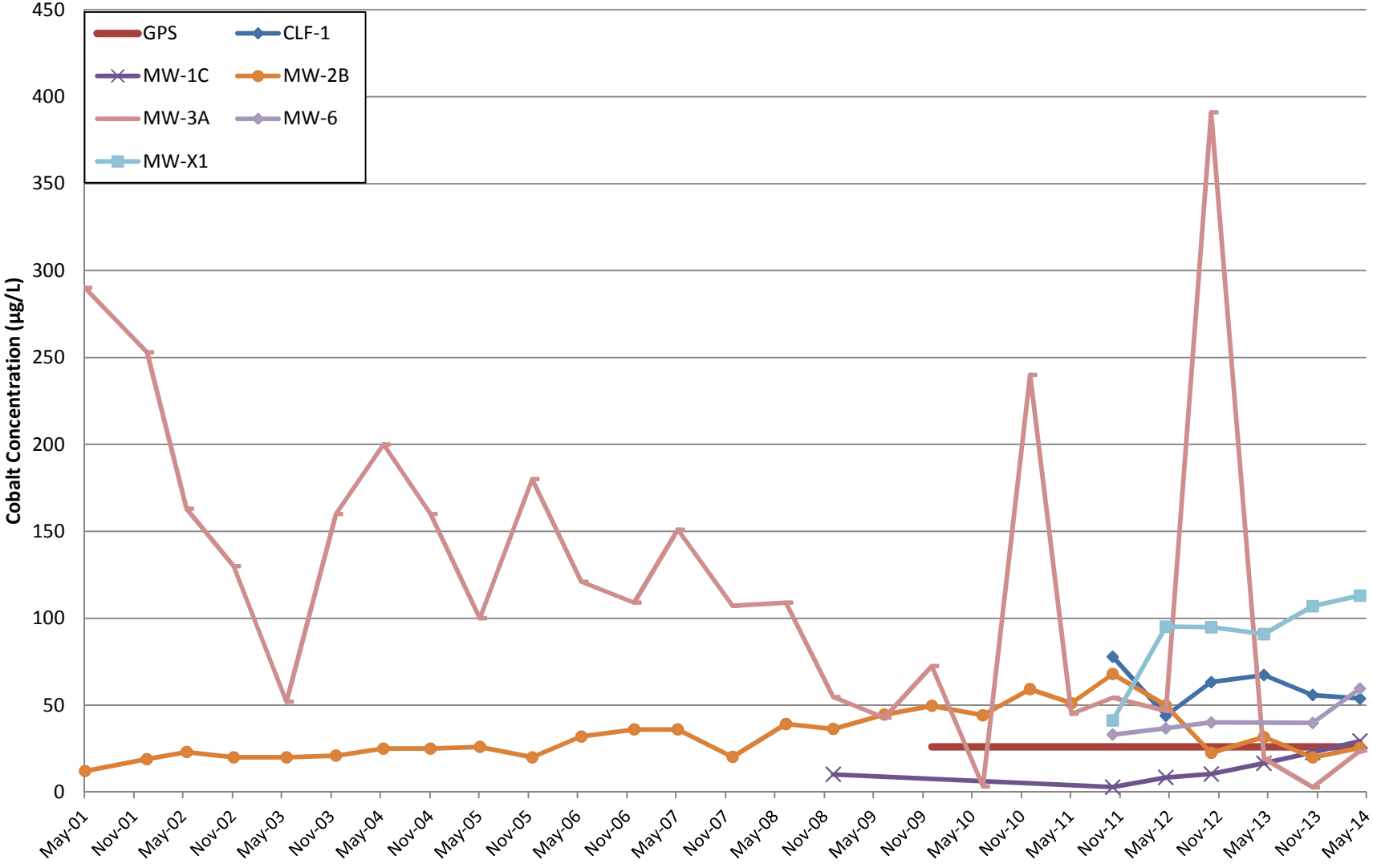
Trend Charts

Constituent of Concern	Trend Chart
Cobalt	Chart 1
Mercury	Chart 2
Benzene	Chart 3
1,1-Dichloroethane	Chart 4
Naphthalene	Chart 5
Tetrachloroethene	Chart 6
Trichloroethene	Chart 7
Vinyl Chloride	Chart 8

Statistical Trend Analyses

Constituent of Concern (with GPS Exceedances)	**Wells**
Cobalt	CLF-1, MW-1C, MW-2B, MW-3A, MW-6, and MW-X1
Mercury	PZ-4E
Benzene	MW-4
1,1-Dichloroethane	CLF-15A, MW-1B, MW-1C, MW-1D, MW-1E, MW-1F, MW-1G, MW-1H, MW-2B, and MW-4
Naphthalene	MW-4 and MW-6
Trichloroethene	CLF-15A, MW-1C, MW-1E, MW-1F, MW-1G, and MW-1H
Vinyl Chloride	MW-1B, MW-1C, MW-1D, MW-1F, MW-1G, and MW-1H

Chart 1
Cobalt in Wells with GPS Exceedances vs. Time



(Prior to 5/07, GPS was 939 µg/L and prior to 8/09, GPS was 156.5 µg/L)

Chart 2
Mercury in Wells with GPS Exceedances vs. Time

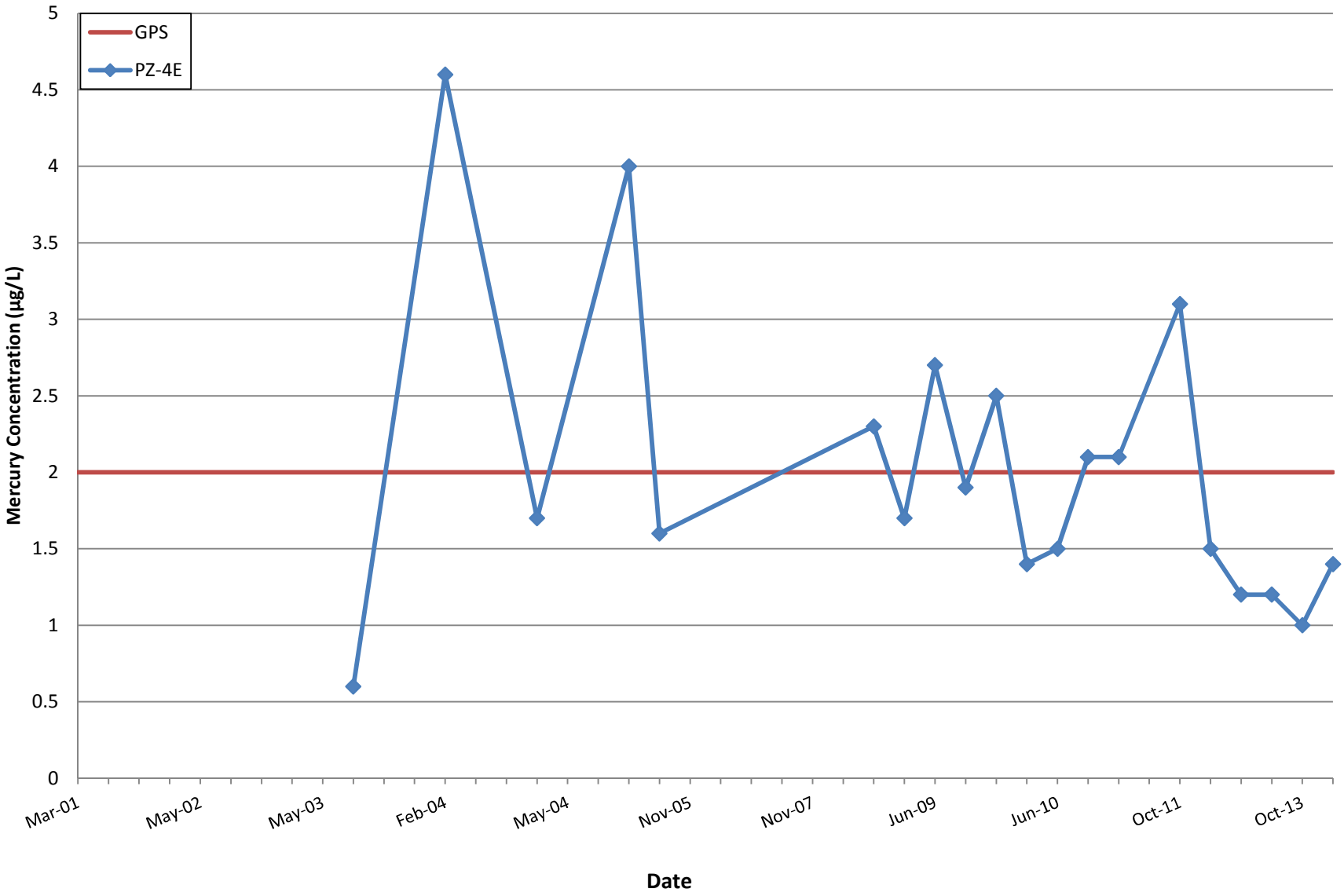


Chart 3
Benzene in Wells with GPS Exceedances vs. Time

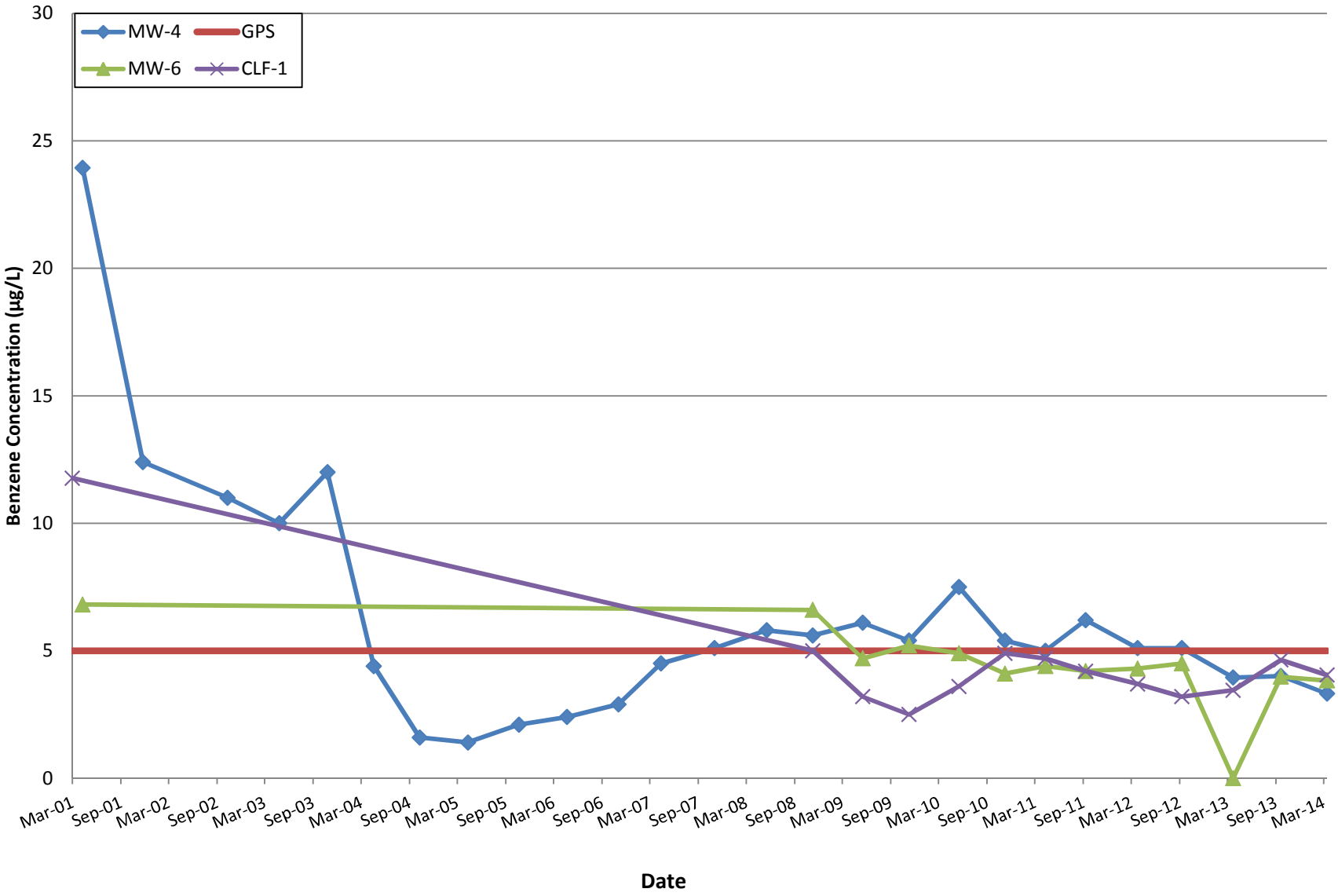
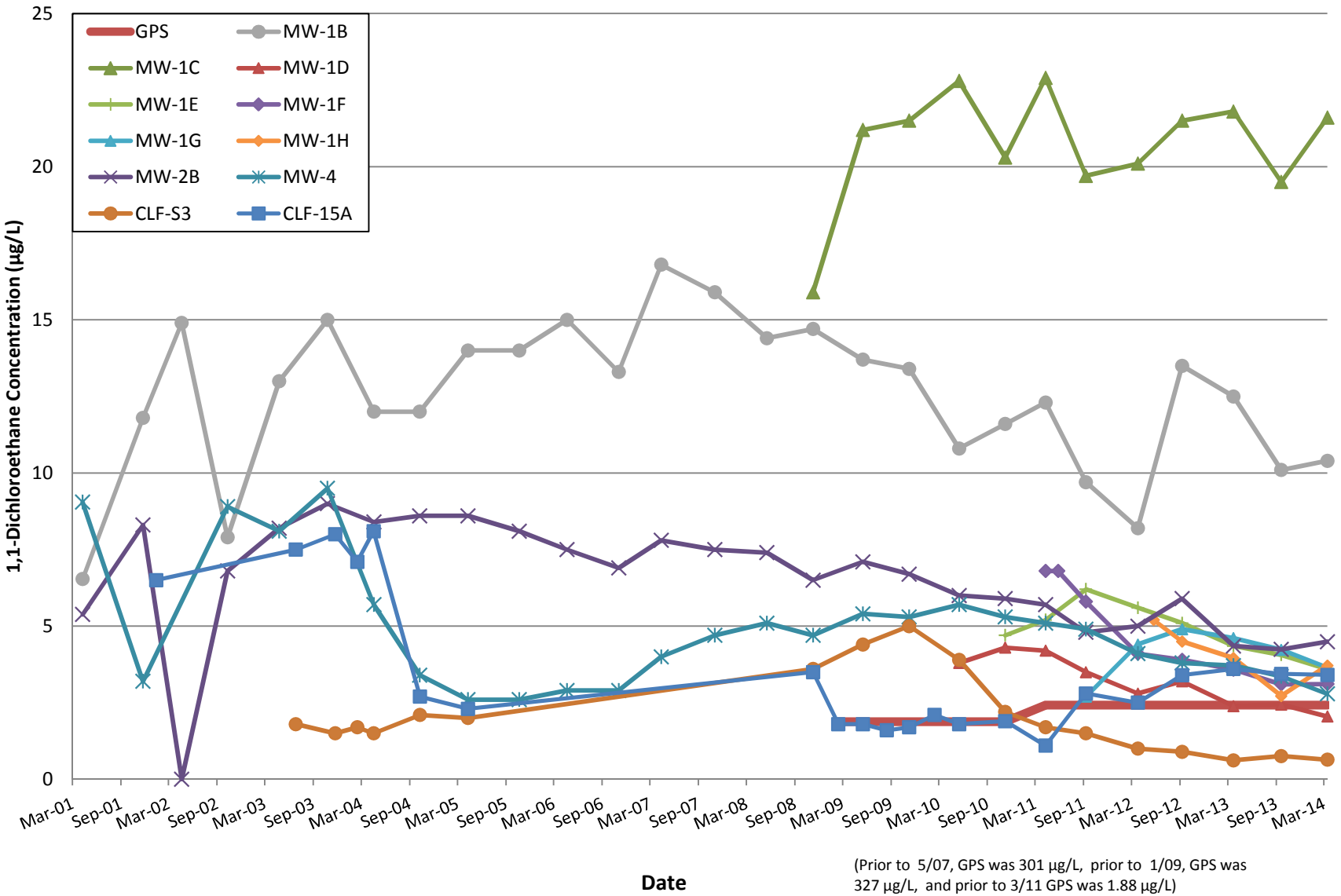
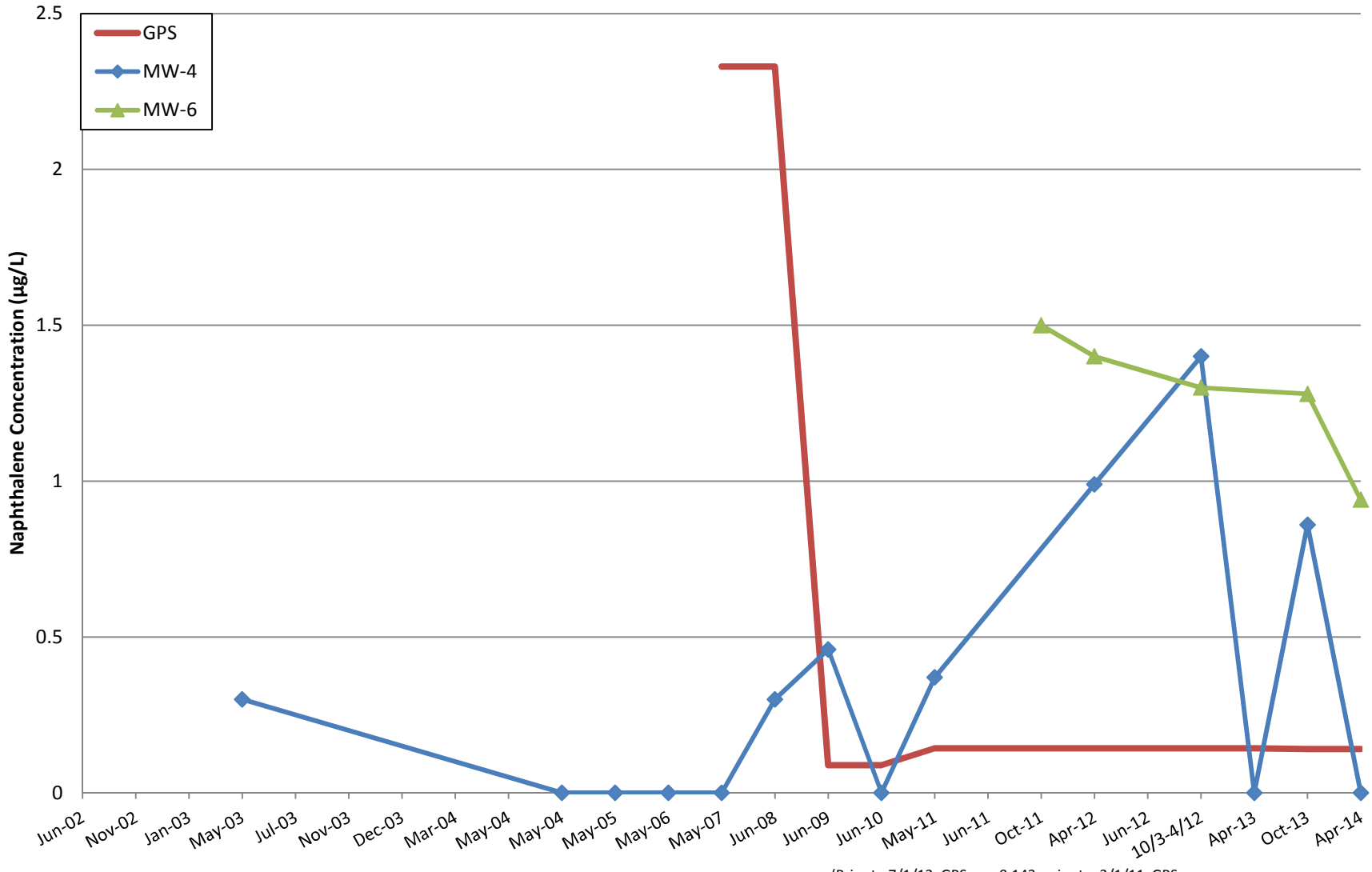


Chart 4
1,1-Dichloroethane in Wells with GPS Exceedances vs. Time



(Prior to 5/07, GPS was 301 µg/L, prior to 1/09, GPS was 327 µg/L, and prior to 3/11 GPS was 1.88 µg/L)

Chart 5
Naphthalene in Wells with GPS Exceedances vs. Time



(Prior to 7/1/13, GPS was 0.143, prior to 3/1/11, GPS was 0.089 µg/L, prior to 1/27/09, GPS was 2.33 µg/L, and prior to 5/8/07 GPS was 626 µg/L)

Chart 6
Tetrachloroethene in Wells with GPS Exceedances vs. Time

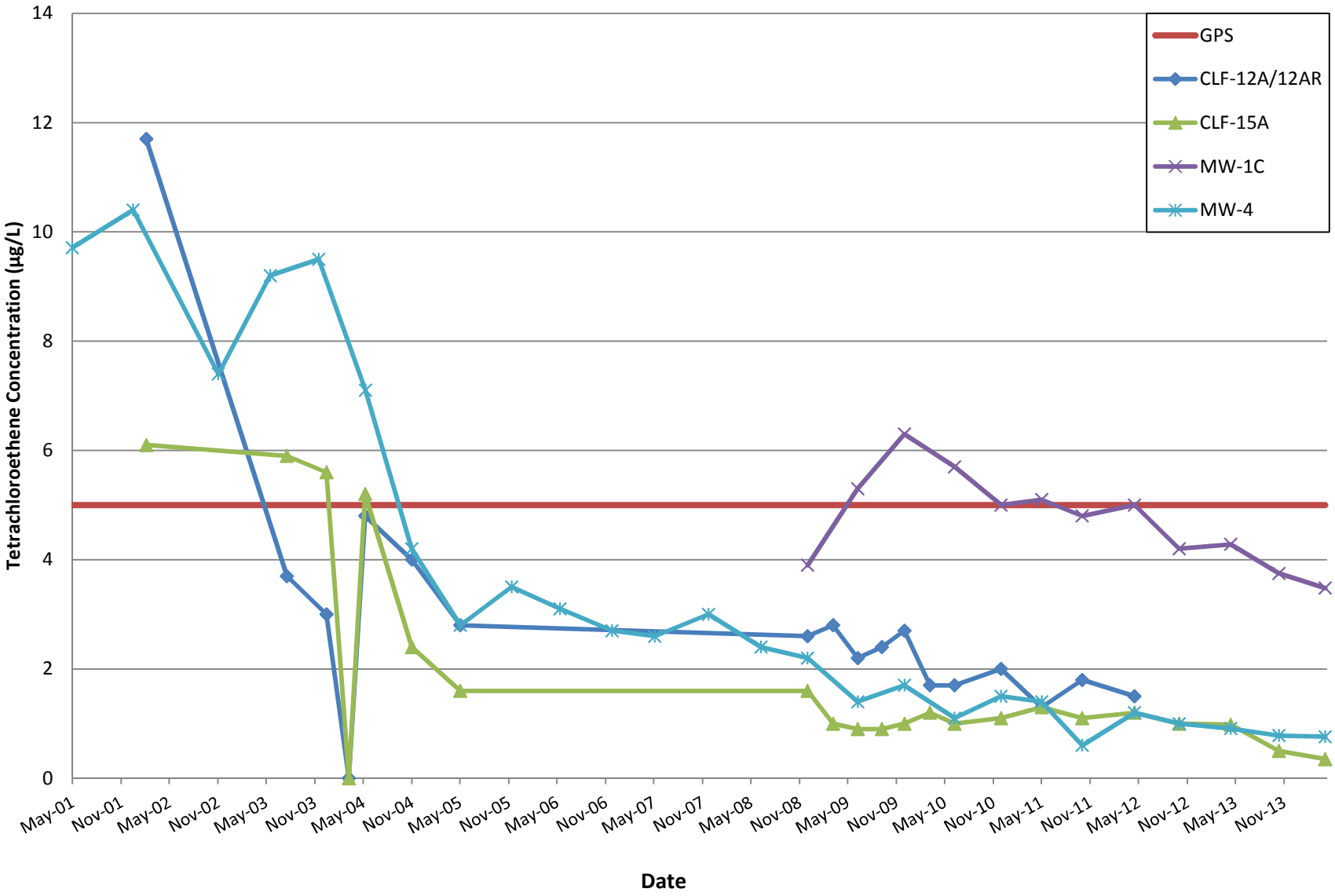


Chart 7
Trichloroethene in Wells with GPS Exceedances vs. Time

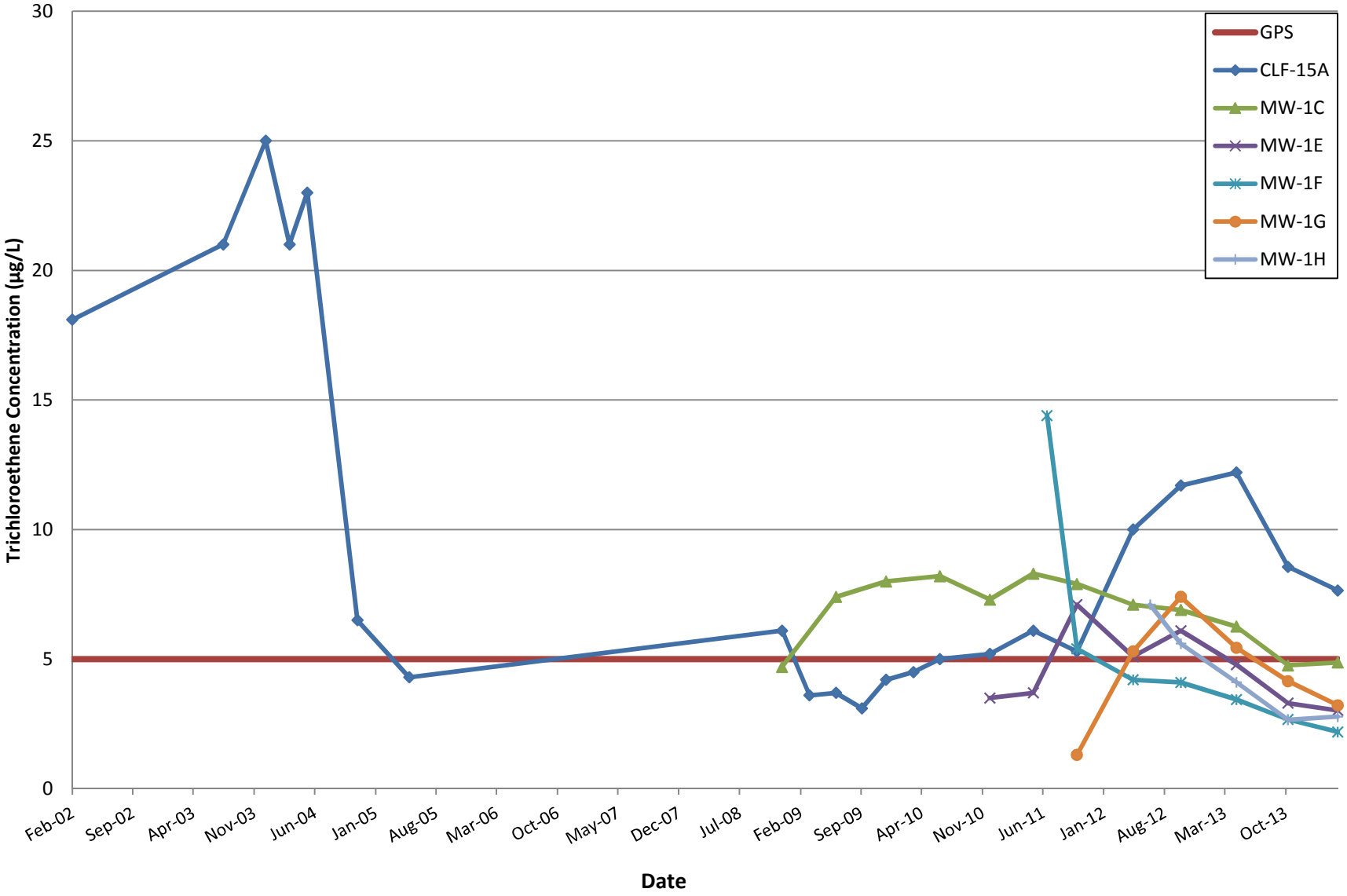
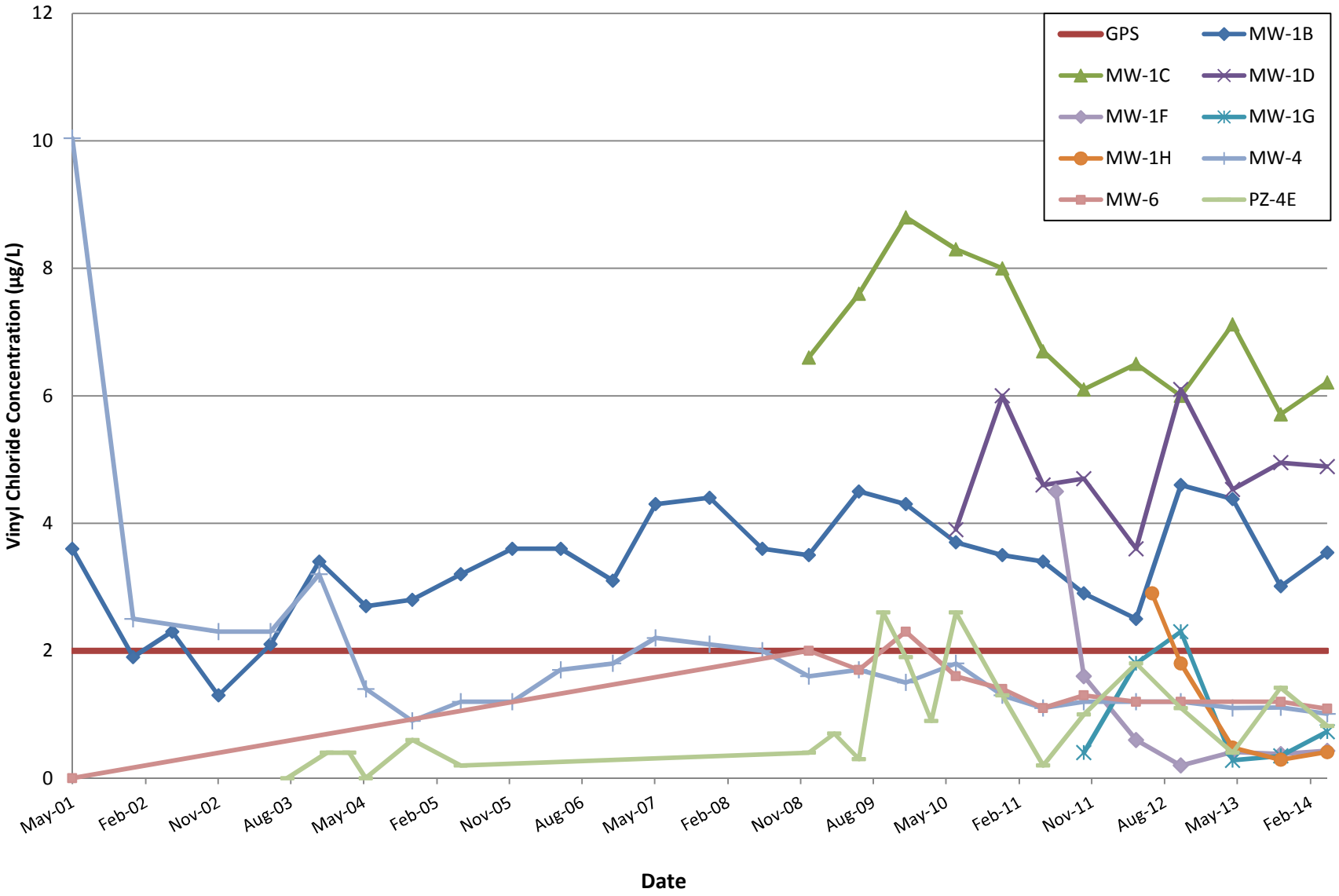


Chart 8
Vinyl Chloride in Wells with GPS Exceedances vs. Time



Attachment VIII

Summary of Statistical Trend Evaluations
Culpeper Laurel Valley Sanitary Landfill
Permit No. 251

Constituent-of-Concern	Monitoring Well	Plume	Statistical Analysis Results (March 2001 - April 2014)		
			Mann -Kendall	Spearman's	Sen's Slope
Cobalt	CLF-1	CLFP-1	No Trend	No Trend	No Trend
	MW-1C	CLFP-2	Upward Trend	Upward Trend	Upward Trend
	MW-2B	CLFP-2	Upward Trend	Upward Trend	Upward Trend
	MW-3A	CLFP-2	No Trend	No Trend	Downward Trend
	MW-6	CLFP-1	Upward Trend	No Trend	Upward Trend
	MW-X1	CLFP-1	No Trend	No Trend	No Trend
Mercury	PZ-4E	CLFP-3	No Trend	No Trend	Downward Trend
Benzene	MW-4	CLFP-1	No Trend	No Trend	No Trend
1,1-Dichloroethane	CLF-15A	CLFP-3	No Trend	No Trend	No Trend
	MW-1B	CLFP-2	No Trend	No Trend	No Trend
	MW-1C	CLFP-2	No Trend	No Trend	No Trend
	MW-1D	CLFP-2	No Trend	No Trend	Downward Trend
	MW-1E	CLFP-2	No Trend	No Trend	Downward Trend
	MW-1F	CLFP-2	No Trend	No Trend	No Trend
	MW-1G	CLFP-2	No Trend	No Trend	No Trend
	MW-1H	CLFP-2	No Trend	No Trend	Downward Trend
	MW-2B	CLFP-2	No Trend	No Trend	Downward Trend
	MW-4	CLFP-1	No Trend	No Trend	No Trend
Naphthalene	MW-4	CLFP-1	No Trend	No Trend	No Trend
	MW-6	CLFP-1	No Trend	No Trend	Downward Trend
Trichloroethene	CLF-15A	CLFP-3	No Trend	No Trend	No Trend
	MW-1C	CLFP-2	No Trend	No Trend	No Trend
	MW-1E	CLFP-2	No Trend	No Trend	No Trend
	MW-1F	CLFP-2	No Trend	No Trend	Downward Trend
	MW-1G	CLFP-2	No Trend	No Trend	No Trend
	MW-1H	CLFP-2	No Trend	No Trend	Downward Trend
Vinyl Chloride	MW-1B	CLFP-2	Upward Trend	Upward Trend	Upward Trend
	MW-1C	CLFP-2	No Trend	No Trend	Downward Trend
	MW-1D	CLFP-2	No Trend	No Trend	No Trend
	MW-1F	CLFP-2	No Trend	No Trend	No Trend
	MW-1G	CLFP-2	No Trend	No Trend	No Trend
	MW-1H	CLFP-2	No Trend	No Trend	Downward Trend

Notes:
No Trend - Refers to data having no evidence of an upward trend.
Upward Trend - Refers to data having evidence of an upward trend.
Downward Trend - Refers to data having evidence of a downward trend.
Out of Range - Refers to table being out of range during the statitical analysis.