



POST-CLOSURE ENVIRONMENTAL MONITORING PROGRAM

2015 ANNUAL POST-CLOSURE MONITORING REPORT

**TOWN OF CLAY LANDFILL
OAK ORCHARD ROAD
TOWN OF CLAY, ONONDAGA COUNTY, NEW YORK
SITE #734034**

September 2015

Prepared for:
Town of Clay
4401 Route 31
Clay, New York 13041

Prepared by:
C&S Engineers, Inc.
499 Colonel Eileen Collins Blvd.
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TOWN OF CLAY LANDFILL

2015 Annual Post-Closure Monitoring Report

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SECTION 1

INTRODUCTION/BACKGROUND

1.1 SITE DESCRIPTION

The Town of Clay Landfill is located along Oak Orchard Road, in the northern section of the Town of Clay, New York, approximately 1,300 feet east of the intersection of Oak Orchard Road and Henry Clay Boulevard. Residential properties exist to the immediate north and northwest of the landfill and near the intersection of Oak Orchard Road and Henry Clay Boulevard to the west. The landfill site is almost entirely surrounded by New York State Department of Environmental Conservation (NYSDEC) wetlands BRE-9 with a number of surface water streams which flow in the vicinity of the landfill. The Oneida River, which flows in a westerly direction past the landfill, is listed as a NYSDEC Class B water body. Shaver Creek is a small stream which flows northerly along the western site property boundary and discharges to the Oneida River. A site location map is shown in Figure 1, and a site plan is included in Figure 2.

1.2 SITE HISTORY/BACKGROUND

The Town of Clay Landfill site was operated by the Town as a municipal landfill from approximately 1956 until 1975 when the Onondaga County Solid Waste Disposal Authority (SWDA) began leasing the landfill from the Town of Clay and began accepting both residential and industrial waste. Prior to SWDA's operation of the landfill, the Town of Clay accepted only residential waste. The landfill was ordered closed by the NYSDEC in 1976 and ceased accepting waste in September 1977. The landfill closure was reportedly completed in 1978 at which time the landfill was returned to the Town of Clay. It was discovered in 1986 that industrial wastes containing polychlorinated biphenyls (PCBs) were disposed of in the Town of Clay Landfill during the period that the landfill was operated by SWDA. For this reason, the landfill was then classified by NYSDEC as a Class 2 Hazardous Waste Site (Site No. 734034). In 1990, a Consent Order between the Town of Clay and the NYSDEC was issued committing the Town of Clay to enter into a Remedial Program. Following completion of environmental investigations, a low permeability synthetic cap was constructed over the Town of Clay Landfill in 1996 as approved by NYSDEC. Funding for the remediation program was provided through State grants and cost recovery from the County.

Consistent with the NYSDEC Record of Decision (December 1994), The Town of Clay began quarterly post closure landfill monitoring in 1997. Post-closure landfill monitoring is required for a minimum of 30 years. From 1997 until 2001, the Town of Clay completed quarterly monitoring at the landfill. In 2001, the NYSDEC approved the Town's request to reduce monitoring of the landfill from quarterly to semiannually. In February 2007, the NYSDEC again approved the Town of Clay's request to reduce monitoring at the landfill; this time from semiannual to a fifth quarter monitoring frequency. In addition to fifth quarter monitoring, the Town of Clay continues to complete quarterly landfill inspections and gas monitoring at the site.

1.3 2015 POST-CLOSURE MONITORING PROGRAM REPORTING

This Monitoring Report was prepared for the Town of Clay by C&S Engineers, Inc. and documents the activities and results of Post-Closure monitoring for the Town of Clay Landfill. This report is based upon the analytical results of groundwater and surface water samples collected from the landfill site during the week of April 21, 2015. Certified Environmental Services, Inc. (CES) under contract to C&S Engineers, Inc., performed the actual collection and analysis of site groundwater and surface water samples. C&S personnel completed landfill inspections and combustible gas monitoring at the landfill gas vents on April 30, 2015, June 17, 2015, and September 17, 2015. The 2015 fourth quarter landfill inspection and combustible gas monitoring event will be completed between November 2015 and December 2015. An interpretation and discussion of the 2015 annual monitoring event results is presented in Section 3.

SECTION 2

METHODOLOGY

This report is based upon the analytical results of groundwater samples collected from groundwater monitoring wells MW-2SR, DGC-3S, MW-4SR, DGC-5, MW-6SR, MW-7S, MW-8S, MW-9S, MW-10SR, MW-11SR, DGC-2D, DGC-3D, and DGC-6D, and surface water samples collected from surface water sampling locations SW-1 and SW-2 located within nearby Shaver Creek. Figure 2 shows the locations of the monitoring wells and surface water sampling locations.

2.1 SAMPLE COLLECTION

Samples were collected on April 21, 2015 and April 22, 2015. Prior to groundwater sample collection, the monitoring wells were purged of at least three well volumes to replace the stagnant groundwater within each monitoring well with fresh formation water. The static water level of each monitoring well was determined prior to purging activities. The amount of water removed from each well was recorded on the sampling data sheets included in Appendix A. Each of the site monitoring wells was purged and sampled using dedicated polyvinyl chloride (PVC) bailers with polypropylene rope. The surface water samples were collected using dedicated intermediate sampling containers. The collected groundwater and surface water samples were analyzed for baseline parameters as listed within 6 NYCRR Part 360-2.11(c)(6).

2.2 ANALYTICAL DATA INTERPRETIVE METHODS

The analytical data generated from the analysis of the groundwater samples collected were compared to applicable NYSDEC Groundwater Quality Standards and Guidance Values (as given in NYSDEC TOGS 1.1.1, June 2004). Consistent with the results of previous investigations and the general topography of the area, monitoring wells MW-2SR, DGC-3S, MW-4SR, DGC-5, MW-6SR, MW-7S, MW-8S, MW-9S, MW-10SR, MW-11SR, DGC-2D, DGC-3D, and DGC-6D are located at peripheral locations immediately outside the landfill waste mass, and as such exist as downgradient shallow and deep groundwater monitoring locations. A limited comparison of the recent monitoring results with data from previous studies was completed in an effort to assess landfill leachate influences.

2.3 LANDFILL RECONNAISSANCE AND COMBUSTIBLE GAS FIELD SURVEY

A landfill reconnaissance and combustible gas survey (landfill gas vents as well as perimeter monitoring) was completed at the site on a quarterly basis. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. Perimeter monitoring was completed at four locations along the access road surrounding the landfill. The gases released from each gas vent as well as perimeter gas monitoring were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization Detector (PID) with 3-D sensor. Combustible gas measurements were completed for parameters including percent lower explosive limit (%LEL), carbon monoxide (CO), and hydrogen sulfide (H₂S), while total volatile organic vapor concentrations were measured at each vent using the PID. The locations of the landfill gas vents are shown on Figure 2.

SECTION 3

RESULTS AND DISCUSSION

3.1 GROUNDWATER QUALITY MONITORING

The environmental monitoring program for the Town of Clay Landfill utilizes a series of groundwater monitoring wells installed near the perimeter of the landfill waste limits. The wells were previously installed to monitor two different geologic units: the first saturated unit (shallow groundwater) and deeper groundwater existing below a semi-impermeable silty clay layer. A summary of the monitoring well construction details is presented in Table 1.

Water depths in each of the monitoring wells were measured prior to the completion of well evacuation. The depths were determined by measuring the distance from the top of the PVC riser pipe to the water in the pipe. The groundwater elevations were then determined by subtracting the initial water depths from the surveyed elevation of the top of the corresponding PVC riser pipe and entered into the historical water level database presented in Table 2. Piezometer PZ-1 is used to monitor the water level within the waste mass. Based on historical water elevations taken at piezometer PZ-1, it appears that the water level elevations within the waste mass have stabilized. This is most likely the result of landfill capping which has limited the volume of infiltrating precipitation and runoff waters to the waste mass.

The analytical results of samples collected from the groundwater monitoring wells are summarized in Table 3. The analytical reports, chain-of-custody documentation, and sample characterization sheets submitted by the contracted laboratory for each groundwater sample are included in Appendix A. The results of groundwater sample analyses were compared to NYSDEC Class GA groundwater standards and guidance values. Parameters that were detected at concentrations above standards or guidance values are shown in Table 3 with a shaded box around the value.

Consistent with the results of previous post-closure monitoring, the results indicate that the groundwater near the landfill is characterized by elevated concentrations of total dissolved solids (TDS), iron, magnesium, manganese, and sodium and occasional exceedences of ammonia, chloride, sulfate, bromide, arsenic, and barium. Inorganic and metal parameters that were not detected above method detection limits within any of the monitoring wells sampled include: cyanide, hexavalent chromium, phenolics, mercury, antimony, beryllium, cadmium, chromium, cobalt, copper, lead, selenium, silver, thallium and vanadium.

As shown in Table 3, volatile organic compounds (VOCs) were not detected above method detection limits (MDLs) in the majority of the collected groundwater samples. As shown in Table 3 and summarized below, only three (MW-4SR, MW-6SR, MW-9S) of the thirteen wells sampled showed VOCs above MDLs.

VOCs Detected above MDLs

Parameter	Class GA Standard	Monitoring Wells		
		MW-4SR	MW-6SR	MW-9S
Benzene	1	6.1	1.2	8.7
Chlorobenzene	5	34	1.5	32
1,1-Dichloroethane	5		1.3	
cis-1,2-Dichloroethene	5		1.1	
1,4-Dichlorobenzene	3	4.8		3.5
1,2-Dichlorobenzene	3	1.3		

Note: Shading denotes parameters detected above standards or guidance values.

Overall, the greatest number of Class GA exceedences were in downgradient shallow wells MW-4SR and MW-9S, while the highest values at the site were in downgradient shallow wells MW-6SR and MW-9S.

Historical groundwater analytical results are included in Tables 6 (inorganic and metal parameters) and 8 (volatile organic compounds).

3.2 SURFACE WATER ANALYTICAL RESULTS

Surface water sample SW-1 was collected from an upstream location within Shaver Creek and surface water sample SW-2 was collected from a downstream location within Shaver Creek. The analytical report, sample characterization sheets, and chain-of-custody documentation submitted by the contract laboratory for the surface water samples collected are included in Appendix A. The analytical results for the surface water sample collected were compared to NYSDEC Class C ambient surface water quality standards and are summarized within Table 4. As shown in Table 4, the surface water sample collected from surface monitoring locations SW-1 and SW-2 exceeded the 0.3 mg/l Class C surface water standard for iron (0.94 mg/l, 2.39 mg/l, respectively) and the 0.1 mg/l Class C surface water standard for aluminum (0.3 mg/l, 0.43 mg/l, respectively). Parameters that were not detected above method detection limits in samples collected from surface water sampling locations during this monitoring event include: volatile organic compounds, biological oxygen demand (BOD), nitrate, phenols, sulfate, cyanide, hexavalent chromium, antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

Historical surface water analytical results are included in Table 7 and indicate that surface water near the landfill is characterized by elevated concentrations of iron and occasional to rare exceedences of phenols, aluminum, barium, selenium, and thallium.

3.3 DRAINAGE DITCH ANALYTICAL RESULTS

In an effort to monitor a discolored liquid that was observed flowing within the drainage ditch (located near the western landfill gate) during the 1997 Third Quarter monitoring event, samples have periodically been collected from the ditch, when water is present and flowing. Samples were not collected during the April 2015 monitoring event as the drainage ditch location was dry at the time of sampling.

3.4 QA/QC

The primary purpose of laboratory blanks is to trace sources of artificially introduced contamination.

An equipment blank consists of a sample of analyte-free media which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment. Since each of the site monitoring wells was purged and sampled by means of dedicated sampling equipment, an equipment blank was not prepared as part of this monitoring event.

A trip blank consists of a sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organics samples. The trip blank sample prepared for this monitoring event was inadvertently damaged (broken) and therefore was not analyzed.

A matrix spike (MS) and matrix spike duplicate (MSD) are two separate aliquots of sample spiked with a known concentration of target analytes in order to establish the applicability of the overall analytical approach (e.g., preparative, cleanup, and determinative methods) to the specific sample matrix from the site of interest (i.e. the landfill). The spiking occurs prior to sampling and analysis. As part of this annual monitoring event, one MS and one MSD was prepared for the water matrix (DGC-2D MS and DGC-2D MSD). Matrix precision is evaluated from comparison of the found concentrations of the MS and MSD. Based on review of attached laboratory report, matrix spike recoveries and duplicate sample results were generally within acceptable limits.

3.5 LANDFILL RECONNAISSANCE

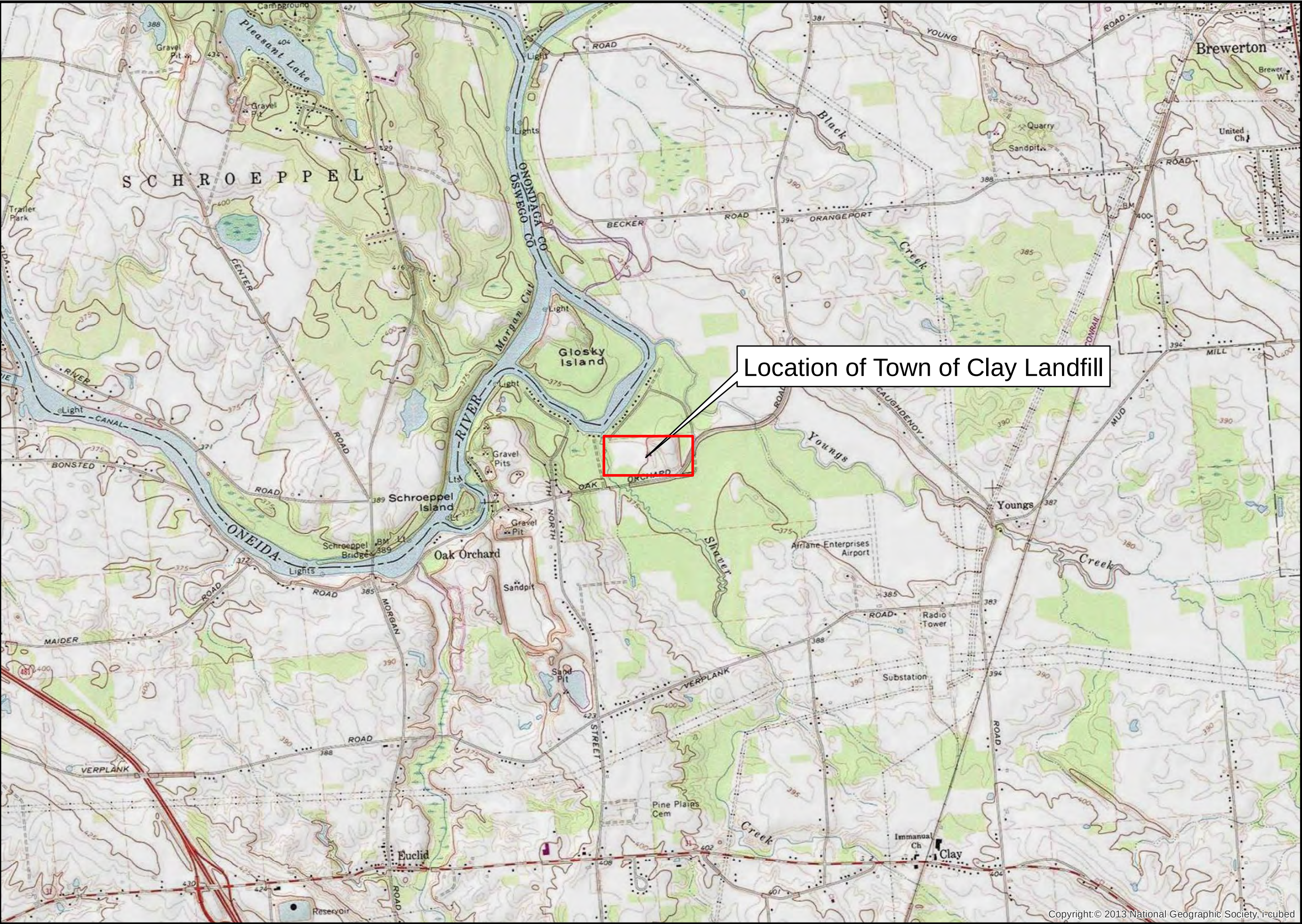
The landfill inspection and combustible gas monitoring reports that were previously submitted to the Town and the NYSDEC are attached as Appendix B. A summary of the quarterly landfill gas monitoring results is included in Table 9. Please note that the 2015 fourth quarter landfill inspection and combustible gas monitoring event is tentatively scheduled for either November 2015 or December 2015 and is therefore not included within Appendix B of this report.

3.6 RECOMMENDATIONS/CONCLUSIONS

Vector holes noted on landfill inspection reports should be filled with the appropriate fill and cover material and sumac growing over the landfill and in the berms should be removed to protect the integrity of the landfill liner. In addition, all vines and trees growing on and around the fence need to be removed to protect the integrity of the fence.

In general, the results of the 2015 monitoring event were consistent with historical conditions at the landfill.

FIGURES



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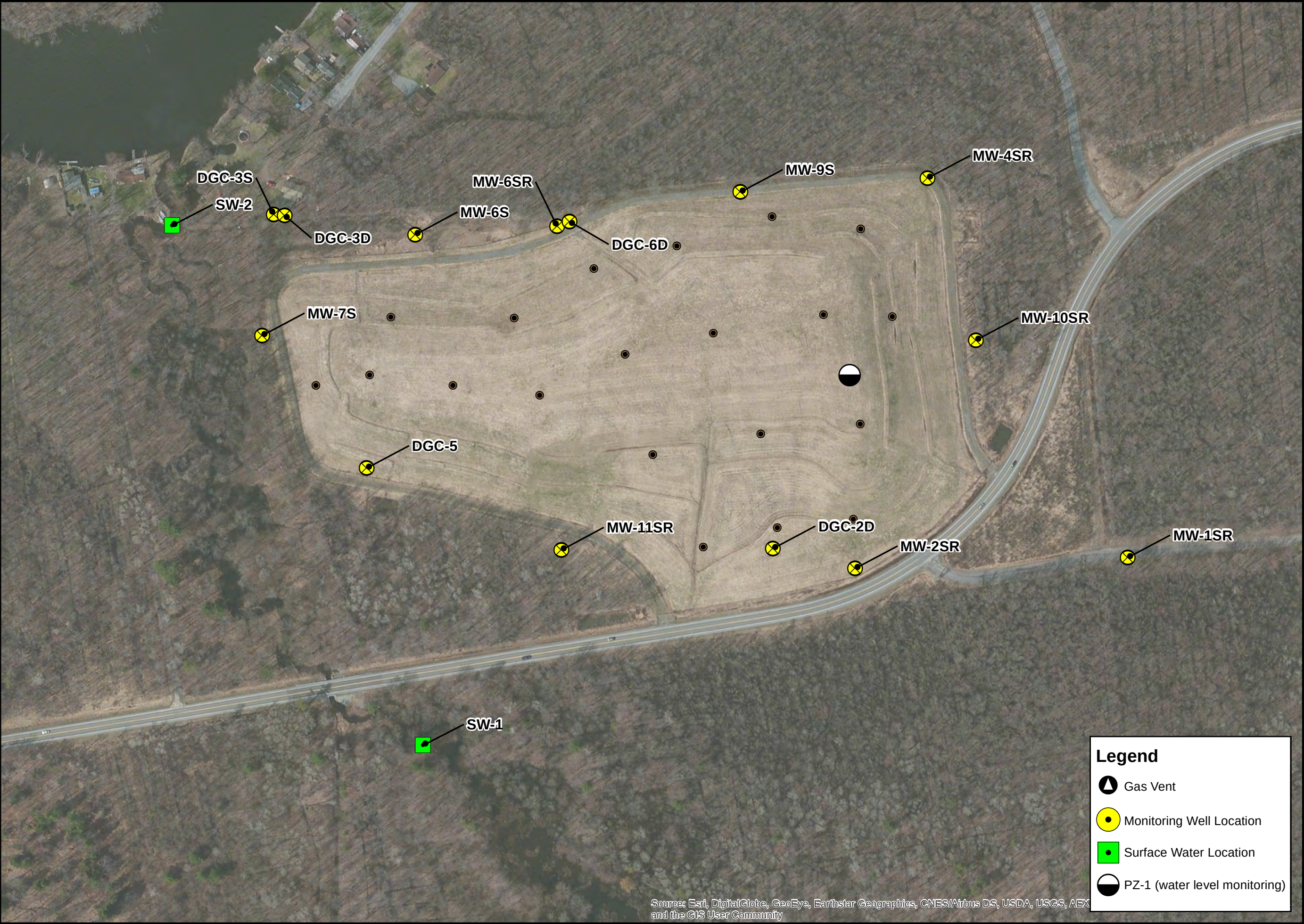
Town of Clay Landfill
Town of Clay, Onondaga County, New York

PROJECT NO:	195.767.008
DATE:	September 9, 2015
SCALE:	AS SHOWN
DRAWN BY:	WNR
DESIGNED BY:	WNR
CHECKED BY:	CC

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Site Location
Map

FIGURE 1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX and the GIS User Community

Legend

 Gas Vent

 Monitoring Well Location

 Surface Water Location

 PZ-1 (water level monitoring)



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Town of Clay Landfill
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PROJECT NO:	195.767.008
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**Environmental
Monitoring
Site Plan**

FIGURE 2

TABLES

TABLE 1. MONITORING WELL CONSTRUCTION DATA

Monitoring Well	Top of PVC Elevation	Depth To Well Bottom	Screen Interval
<i>Shallow Monitoring Wells</i>	(feet)	(feet)	(feet)
MW-1SR	367.42	17	6.0-16.0
MW-2SR*	375.9	15	5.0-15.0
DGC-3S	369.42	15	5.0-15.0
MW-4SR*	380.8	16	5.0-15.0
DGC-5*	378.6	15	5.0-15.0
MW-6SR*	372.7	16	5.0-15.0
MW-7S*	375.5	16	5.0-15.0
MW-8S	370.51	16	5.0-15.0
MW-9S*	382.7	16	10.0-15.0
MW-10SR*	374.5	16	5.0-15.0
MW-11SR*	374.2	11	5.0-15.0
<i>Deep Monitoring Wells</i>			
DGC-2D*	384.4	52	42.0-52.0
DGC-3D	369.98	43	33.0-43.0
DGC-6D*	373.7	37	27.0-37.0

Notes: (*) Replacement Wells; Elevations based on existing wells.

TABLE 2 HISTORICAL WATER ELEVATIONS

Date Sampled	MW 1SR	MW 2SR *	DGC 3S	MW 4SR**	DGC 5**	MW 6SR**	MW 7S**	MW 8S	MW 9S**	MW 10SR*	MW 11SR*	DGC 2D**	DGC 3D	DGC 6D**	PZ-1
Top of PVC	367.42	377.9	369.42	377.63	376.28	371.15	373.2	370.51	377.45	381.03	374.32	377.37	369.98	372.9	419.17
5/5/1992	372.54	374.23	366.69	371.32	372.97	367.96	369.64	366.8	370.99	378.13	372.51	371.91	367.52	368.69	
12/12/1992	372.52	373.8	366.22	370.93	372.68	367.55	369.3	366.41	370.05	377.13	372.42				

Date Sampled	MW 1SR	MW 2SR *	DGC 3S	MW 4SR**	DGC 5**	MW 6SR**	MW 7S**	MW 8S	MW 9S**	MW 10SR*	MW 11SR*	DGC 2D**	DGC 3D	DGC 6D**	PZ-1
Top of PVC	367.42	375.9	369.42	380.8	378.6	372.7	375.5	370.51	382.7	374.5	374.2	384.4	369.98	373.7	417.9
06/97	363.0	373.1	364.5	373.0	370.6	364.6	367.9	365.8	369.9	371.8	370.9	371.6	367.7	368.2	379.49
08/97	358.5	--	360.4	371.5	369.8	364.3	364.6	365.4	--	368.7	365.6	366.5	364.4	367.1	378.90
11/97	362.6	373.2	366.3	371.9	370.2	367.4	368.2	366.4	--	370.4	372.1	368.8	366.2	366.4	379.15
4/98	363.4	373.3	365.8	370.9	370.5	367.3	368.8	365.9	--	371.9	372.0	371.8	367.8	368.3	377.95
6/98	362.6	373.1	364.2	370.4	371.5	366.4	367.0	365.4	--	371.1	370.9	370.5	366.7	367.4	378.60
11/98	362.7	372.7	365.4	370.3	371.8	367.0	367.1	366.1	--	370.2	372.1	369.0	366.2	366.3	377.87
2/99	363.6	374.0	366.6	370.8	372.6	367.7	369.8	366.2	--	371.7	372.1	371.9	--	368.3	377.55
3/99	364.0	373.7	367.2	371.2	372.7	366.9	370.1	366.6	--	371.7	372.2	369.9	367.7	366.8	379.35
6/99	360.2	372.5	361.0	367.8	369.3	364.4	365.1	364.1	--	368.5	365.9	368.4	365.3	365.4	***
9/99	357.4	372.5	360.2	368.5	368.6	364.5	366.0	365.5	--	367.2	367.9	364.1	363.2	362.3	377.56
12/99	364.4	373.3	365.8	370.5	372.0	367.7	369.0	366.5	--	370.9	371.9	370.5	367.0	367.6	376.86
3/00	363.4	373.8	366.9	370.5	372.4	368.1	369.8	366.6	--	371.6	372.2	371.6	367.5	368.2	378.19
6/00	363.0	373.2	364.8	369.8	372.3	367.2	368.7	365.9	--	371.6	371.9	371.4	367.4	368.0	377.70
9/00	362.3	372.6	363.9	369.6	371.7	366.4	367.1	366.1	--	370.6	371.9	370.0	366.2	366.5	376.50
12/00	363.2	375.72	366.18	366.99	369.88	365.91	367.05	366.11	--	378.29	372.52	364.54	367.58	367.39	375.20
03/01	363.6	374.15	363.99	370.61	373.01	368.19	370.4	366.88	--	371.72	372.19	371.67	365.96	368.1	---
06/01	363.04	373.25	366.67	369.97	371.94	367.44	367.5	366.36	--	371.54	370.8	371.4	367.08	367.93	377.78
09/01	357.57	371.5	359.85	366.39	367.92	362.27	363.03	362.86	--	364.63	369.93	365.59	363.88	363.09	377.3
12/01	363.04	373.47	366.15	370.27	371.84	367.53	368.64	366.46	--	371.6	372.15	369.59	366.48	366.7	377.46
09/02	356.77	372.26	358.82	362.89	364.97	360.46	360.49	361.88	Dry	370.82	Dry	363.96	363.28	361.61	377.01
06/03	363.15	373.29	365.12	370.1	372.14	367.59	368.74	366.08	367.98	372.09	371.88	371.6	367.78	368.11	377.39
04/04	363.4	373.89	366.46	370.47	372.64	367.84	369.69	366.19	369.77	371.72	372.16	371.7	367.77	368.2	376.8
12/04	363.55	373.85	366.75	370.1	372.31	367.8	367.65	366.35	369.64	371.79	372.18	371.76	367.89	368.06	Plugged
09/05	--	372.48	359.97	365.04	366.99	361.92	362.52	362.81	366.18	366.23	364.02	365.12	363.73	362.69	--
06/06	--	372.54	364.01	369.05	371.29	366.65	366.52	365.3	369.21	371.25	370.66	371.05	367.08	367.55	377.04
09/07	--	370.07	358.07	364.14	365.23	360.62	361.85	357.83	366.18	362.89	361.00	365.15	364.03	361.82	--
12/08	--	373.86	366.96	370.25	372.16	368.19	369.88	366.6	368.92	361.09	362.99	371.62	367.75	368.24	--
6/10	--	373.26	365.83	369.63	371.96	367.48	367.36	365.95	369.27	371.36	371.78	371.09	367.12	367.71	377.48
6/11	--	372.74	363.67	368.15	370.77	365.91	366.76	364.47	369.21	369.98	370.59	370.08	365.25	366.29	376.4
9/12	--	371.29	362.67	364.56	365.24	359.83	361.12	357.48	dry	362.38	361.17	363.26	360.7	360.24	376.85
11/13	--	374.08	366.24	370.61	372.16	367.58	369.03	366.27	369.47	371.75	371.95	371.67	348.43	----	376.5
4/15	--	374.44	366.27	371.04	373.39	368.38	370.30	366.51	370.34	372.15	372.39	372.29	368.08	368.91	376.65

Notes: * Monitoring well abandoned and replaced at nearby location as part of final cap construction.

**Top of monitoring well PVC (and casing) raised to accomodate final cap construction.

Monitoring wells were re-surveyed on 09/11/97.

TABLE 3 - GROUNDWATER MONITORING WELL ANALYTICAL RESULTS

Parameters	Units	Class GA Standard	Class GA Guidance	MW-2SR	DGC-3S	MW-4SR	DGC-5	MW-6SR	MW-7S	MW-8S	MW-9S	MW-10SR	MW-11SR	DGC-2D	DGC-3D	DGC-6D	
Date Sampled				4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/15	4/21/2015	4/22/2015	4/21/2015	
Specific Conductivity	mS/cm	6.5-8.5		1.06	0.638	2.01	0.002	1.46	0.639	1.49	2.54	0.692	0.878	0.44	0.264	0.277	
Eh	MV			50	54	-36	-50	8	-27	-99	66	13	-19	-61	76	8	
Field pH	SU			7.74	7.22	6.9	7.14	7.12	7.3	7.34	7.23	7.89	6.88	7.39	8.06	8.01	
Temperature	deg C			7.72	7.77	8.94	9.25	8.1	8.6	7.76	9.43	9.49	8.68	9.27	9.75	7.72	
Turbidity	NTU			0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOC	mg/l	2		6.21	2.62	45.7	3.77	30.9	6.31	13.3	73.2	1.69	5.69	1.89	1.68	<1.00	
Alkalinity as CaCo3	mg/l			420	347	913	247	667	380	353	804	327	467	216	148	136	
Ammonia as N	mg/l			0.16	0.1	92.2	2.56	28.4	1.65	0.34	120	0.21	<0.1	1.25	0.55	0.15	
Biological Oxygen Demand	mg/l			<4.0	<4.0	22	<4.0	14	<4.0	5.6	22	<4.0	<4.0	<4.0	<4.0	<4.0	
Chloride	mg/l			250	120	12	160	<4	155	<2	310	320	30	34	<2	<2.0	<2.0
Chemical Oxygen Demand	mg/l	15		9	<5	136	18	93	14	41	215	<5	14	<5	<5	<5	
Color (Pt. Co. U.)	mg/l			<5	<5	50	<5	15	15	10	45	<5	15	<5	<5	<5	
Cyanide	mg/l			0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Hexavalent Chromium	mg/l			0.05	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Nitrate as N	mg/l			10	<0.05	<0.05	<0.05	<0.05	0.08	0.06	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	0.05
Total Hardness as CaCo3	mg/l	0.001		451	353	562	294	653	361	371	417	334	436	212	203	172	
Kjeldahl Nitrogen as N	mg/l			0.71	<0.5	97	3.13	30.9	2.13	1.58	122	<0.5	<0.5	1.37	0.76	0.7	
Phenolics, Total	mg/l			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Solids, Dissolved	mg/l			500	644	375	985	264	859	397	935	1186	357	542	245	140	170
Sulfate as SO4	mg/l			250	11	<10.0	<10.0	<10.0	<10.0	<10.0	14.1	<10.0	17.6	13.8	<10.0	<10.0	12.1
Bromide	mg/l	2	0.757	<0.10	2.36	<0.10	1.41	<0.10	1.1	5.02	0.566	0.501	0.149	<0.010	<0.10		
Mercury	mg/l	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Aluminum	mg/l	0.003	0.31	0.95	3.11	1.45	9.7	<0.20	1.21	1.24	1.69	0.66	<0.20	7.62	1.08		
Antimony	mg/l		<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012		
Arsenic	mg/l		0.025	<0.02	<0.02	<0.02	<0.02	0.12	<0.02	0.11	0.052	<0.02	<0.02	<0.02	<0.02		
Barium	mg/l		1	0.24	0.13	0.63	0.25	1.47	0.2	0.27	1.11	0.14	0.23	0.27	0.32	0.15	
Beryllium	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Boron	mg/l	1	0.14	0.034	0.67	<0.02	0.53	<0.02	0.38	0.85	0.15	0.32	0.066	0.086	0.034		
Cadmium	mg/l	0.005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Calcium	mg/l	0.05	87.7	102	140	90.5	144	120	68.2	78.8	52.5	96.5	48.5	46.9	39.7		
Chromium	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Cobalt	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Copper	mg/l		0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Iron	mg/l		0.3	1.01	1.93	18.3	5.46	25.8	10.6	7.47	5.08	2.07	2.8	2.14	10.3	1.31	
Lead	mg/l	0.025	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Magnesium	mg/l	0.3	56.3	23.8	51.5	16.6	71.3	15	48.7	53.6	49.4	47.5	22.2	20.8	17.6		
Manganese	mg/l		0.12	0.17	1.65	0.87	0.7	1.32	0.24	0.092	0.093	0.47	0.12	0.31	0.089		
Nickel	mg/l		0.1	<0.02	<0.02	0.026	<0.02	0.044	<0.02	<0.02	0.034	<0.02	<0.02	<0.02	<0.02	<0.02	
Potassium	mg/l		16.2	17	76.4	18.3	26.4	11.1	10.3	72.8	18.4	16.7	19	7.95	18.2		
Selenium	mg/l		0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Silver	mg/l	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Sodium	mg/l	20	71.6	10.4	135	<5.0	117	<5.0	184	201	29.1	76.7	12.3	15.8	7.65		
Thallium	mg/l	0.0005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Vanadium	mg/l		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Zinc	mg/l		2	0.028	<0.02	0.022	<0.02	0.044	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.045	<0.02	

TABLE 3 - GROUNDWATER MONITORING WELL ANALYTICAL RESULTS

Parameters	Units	Class GA Standard	Class GA Guidance	MW-2SR	DGC-3S	MW-4SR	DGC-5	MW-6SR	MW-7S	MW-8S	MW-9S	MW-10SR	MW-11SR	DGC-2D	DGC-3D	DGC-6D
Date Sampled				4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/2015	4/21/15	4/21/2015	4/22/2015	4/21/2015
Acrylonitrile	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/l		50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	ug/l	1		<1	<1	6.1	<1	1.2	<1	<1	8.7	<1	<1	<1	<1	<1
Bromodichloromethane	ug/l		50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/l		50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-Butanone)	ug/l		50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/l	60		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	5		<1.0	<1.0	34	<1.0	1.5	<1.0	<1.0	32	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroform	ug/l	7		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
2-Chloroethylvinylether	ug/l			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	ug/l		50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethane	ug/l	5		<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/l	0.6		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	ug/l	5		<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	0.4		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/l	0.4		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l		50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/l	5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl isobutyl ketone (MIBK)	ug/l			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethene	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	ug/l			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride	ug/l	2		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, total	ug/l	5		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
1,3-Dichlorobenzene	ug/l	3		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	3		<1.0	<1.0	4.8	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	3		<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l	0.04		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	ug/l			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,4-Dichloro-2-butene	ug/l	5		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane	ug/l			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	0.04		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iodomethane	ug/l	5		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0

TABLE 4 - SURFACE WATER ANALYTICAL RESULTS

Parameters	Units	Class C Standard	SW-1	SW-2
Sample Collection Date			4/21/2015	4/21/2015
Specific Conductivity	ms/cm	6.5 - 8.5	0.513	0.533
Eh (mV)	mV		40	-31
Field pH	SU		7.47	7.31
Temperature (deg. C)	deg C		14.33	9.53
Turbidity (NTU)	NTU		0	0
Dissolved Oxygen	mg/l		8.43	7.7
TOC	mg/l		9.69	7.78
Alkalinity as CaCo3	mg/l		124	316
Ammonia as N	mg/l		0.16	0.1
Biological Oxygen Demand	mg/l		<4.0	<4.0
Chloride	mg/l	2	85	9
Color	Units		50	15
Chemical Oxygen Demand	mg/l		27	14
Nitrate as N	mg/l		<0.05	<0.05
Total Hardness as CaCo3	mg/l		139	298
Kjeldahl Nitrogen as N	mg/l		0.68	<0.5
Total Phenols	mg/l		<0.010	<0.010
Solids, Dissolved	mg/l		284	360
Sulfate as SO4	mg/l		<10	<10
Bromide	mg/l		0.131	0.25
Cyanide, Total	mg/l		<0.01	<0.01
Hexavalent Chromium	mg/l	0.011	<0.004	<0.004
Boron	mg/l		<0.02	0.047
Aluminum	mg/l		0.3	0.43
Antimony	mg/l		<0.012	<0.012
Arsenic	mg/l		<0.02	<0.02
Barium	mg/l		0.056	0.11
Beryllium	mg/l		<0.02	<0.02
Cadmium	mg/l		<0.02	<0.02
Calcium	mg/l		38.5	90.5
Chromium	mg/l		<0.02	<0.02
Cobalt	mg/l	0.005	<0.02	<0.02
Copper	mg/l		<0.02	<0.02
Iron	mg/l		0.94	2.39
Lead	mg/l		<0.02	<0.02
Magnesium	mg/l		10.4	17.5
Manganese	mg/l		0.13	0.26
Mercury	mg/l		<0.00002	<0.00002
Nickel	mg/l		<0.02	<0.02
Potassium	mg/l		7.16	6.64
Selenium	mg/l		<0.02	<0.02
Silver	mg/l	0.0001	<0.02	<0.02
Sodium	mg/l		51	8.78
Thallium	mg/l		<0.010	<0.010
Vanadium	mg/l		<0.02	<0.02
Zinc	mg/l		<0.02	<0.02

TABLE 4 - SURFACE WATER ANALYTICAL RESULTS

Parameters	Units	Class C Standard	SW-1	SW-2
Sample Collection Date			4/21/2015	4/21/2015
Acrylonitrile	ug/l		<5.0	<5.0
Acetone	ug/l		<10	<10
Benzene	ug/l	1	<1.0	<1.0
Bromodichloromethane	ug/l	5	<1.0	<1.0
Bromoform	ug/l		<1.0	<1.0
Bromomethane	ug/l		<3.0	<3.0
2-Butanone	ug/l		<5.0	<5.0
Carbon Disulfide	ug/l		<2.0	<2.0
Carbon Tetrachloride	ug/l		<1.0	<1.0
Chlorobenzene	ug/l	5	<1.0	<1.0
Chloroethane	ug/l	5	<3.0	<3.0
Chloroform	ug/l	5	<1.0	<1.0
Chloromethane	ug/l		<3.0	<3.0
2-Chloroethylvinylether	ug/l		<5.0	<5.0
Dibromochloromethane	ug/l	7	<1.0	<1.0
Dichlorodifluoromethane	ug/l		<3.0	<3.0
1,1 Dichloroethane	ug/l	5	<1.0	<1.0
1,2-Dichloroethane	ug/l	5	<1.0	<1.0
1,1-Dichloroethene	ug/l	0.6	<1.0	<1.0
cis-1,2-Dichloroethene	ug/l	5	<1.0	<1.0
trans-1,2-Dichloroethene	ug/l	5	<1.0	<1.0
1,2 Dichloropropane	ug/l	5	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	1	<1.0	<1.0
trans-1,3-Dichloropropene	ug/l	0.4	<1.0	<1.0
Ethylbenzene	ug/l	0.4	<1.0	<1.0
2-Hexanone	ug/l	5	<5.0	<5.0
Methylene Chloride	ug/l	5	<5.0	<5.0
MIBK (4 methyl-2-pentanone)	ug/l		<5.0	<5.0
Styrene	ug/l		<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	5	<1.0	<1.0
Tetrachloroethene	ug/l	5	<1.0	<1.0
Toluene	ug/l	5	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	5	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	5	<1.0	<1.0
Trichlorofluoromethane	ug/l	5	<3.0	<3.0
Trichloroethene	ug/l	1	<1.0	<1.0
Vinyl Acetate	ug/l	0.04	<5.0	<5.0
Vinyl Chloride	ug/l	2	<2.0	<2.0
Xylenes	ug/l	2	<3.0	<3.0
1,3-Dichlorobenzene	ug/l	5	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	3	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	5	<1.0	<1.0
1,2-Dibromo-3-chloropropane	ug/l		<1.0	<1.0
1,2-Dibromoethane	ug/l		<1.0	<1.0
Trans-1,4-Dichloro-2-butene	ug/l	5	<5.0	<5.0
1,1,1,2-Tetrachloroethane	ug/l	5	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	5	<1.0	<1.0
Bromochloromethane	ug/l	5	<1.0	<1.0
Dibromomethane	ug/l		<1.0	<1.0
Iodomethane	ug/l		<4.0	<4.0
Methyl ethyl ketone	ug/l	5	NA	NA

* Cadmium $(0.85)\exp(0.7852 \{\ln(\text{hardness})\})-2.715$

* Chromium $(0.86)\exp(0.819 \{\ln(\text{hardness})\})+0.6848$

* Copper $(0.96)\exp(0.8545 \{\ln(\text{hardness})\})-1.702$

* Lead $\{1.46203-[\ln(\text{hardness}) (0.145712)]\}\exp(1.273 [\ln(\text{hardness})])-4.297$

* Nickel $(0.997)\exp(0.846 [\ln(\text{hardness})])+0.0584$

* Beryllium - Class GA Standard is 11 ug/l when hardness <75 ppm, 1100 ug/l when hardness >75 ppm.

* Zinc $\exp(0.85 \{\ln(\text{ppm hardness})\})+0.5$

TABLE 5 - DRAINAGE DITCH ANALYTICAL RESULTS

Parameter	Units	Drainage Ditch SW-3
<i>Sample Collection Date</i>		4/21/2015
Specific Conductivity	UmHos/cm	Location Dry
Eh	mV	
Field pH	SU	
Temperature	deg C	
Turbidity	NTU	
TOC	mg/l	
Alkalinity as CaCo3	mg/l	
Ammonia as N	mg/l	
Biological Oxygen Demand	mg/l	
Chloride	mg/l	
Chemical Oxygen Demand	mg/l	
Color	mg/l	
Nitrate as N	mg/l	
Total Hardness as CaCo3	mg/l	
Kjeldahl Nitrogen as N	mg/l	
Phenolics, Total	mg/l	
Solids, Dissolved	mg/l	
Sulfate as SO4	mg/l	
Bromide	mg/l	
Aluminum	mg/l	
Antimony	mg/l	
Arsenic	mg/l	
Barium	mg/l	
Beryllium	mg/l	
Boron	mg/l	
Cadmium	mg/l	
Calcium	mg/l	
Chromium	mg/l	
Cobalt	mg/l	
Copper	mg/l	
Cyanide, Total	mg/l	
Hexachromium	mg/l	
Iron	mg/l	
Lead	mg/l	

TABLE 5 - DRAINAGE DITCH ANALYTICAL RESULTS

Parameter	Units	Drainage Ditch SW-3
<i>Sample Collection Date</i>		4/21/2015
Magnesium	mg/l	Location Dry
Manganese	mg/l	
Mercury	mg/l	
Nickel	mg/l	
Potassium	mg/l	
Selenium	mg/l	
Silver	mg/l	
Sodium	mg/l	
Thallium	mg/l	
Vanadium	mg/l	
Zinc	mg/l	
Acetone	ug/l	
Acrylonitrile	ug/l	
Benzene	ug/l	
Bromochloromethane	ug/l	
Bromodichloromethane	ug/l	
Bromoform	ug/l	
Bromomethane	ug/l	
2-Butanone	ug/l	
Carbon Disulfide	ug/l	
Carbon Tetrachloride	ug/l	
Chlorobenzene	ug/l	
Chloroethane	ug/l	
Chloromethane	ug/l	
Chloroform	ug/l	
Dibromochloromethane	ug/l	
1,2-Dibromo-3-chloropropane	ug/l	
1,2-Dibromoethane	ug/l	
Dibromomethane	ug/l	
1,2-Dichlorobenzene	ug/l	
1,4-Dichlorobenzene	ug/l	
Trans-1,4-Dichloro-2-butene	ug/l	

TABLE 5 - DRAINAGE DITCH ANALYTICAL RESULTS

Parameter	Units	Drainage Ditch SW-3
<i>Sample Collection Date</i>		4/21/2015
1,1 Dichloroethane	ug/l	Location Dry
1,2-Dichloroethane	ug/l	
1,1-Dichloroethene	ug/l	
cis-1,2-Dichloroethene	ug/l	
trans-1,2-Dichloroethene	ug/l	
1,2 Dichloropropane	ug/l	
cis-1,3-Dichloropropene	ug/l	
trans-1,3-Dichloropropene	ug/l	
Ethylbenzene	ug/l	
2-Hexanone	ug/l	
Methylene Chloride	ug/l	
MIBK (4 methyl-2-pentanone)	ug/l	
Methyl ethyl ketone	ug/l	
Iodomethane	ug/l	
Styrene	ug/l	
1,1,1,2-Tetrachloroethane	ug/l	
1,1,2,2-Tetrachloroethane	ug/l	
Tetrachloroethene	ug/l	
Toluene	ug/l	
1,1,1-Trichloroethane	ug/l	
1,1,2-Trichloroethane	ug/l	
Trichloroethene	ug/l	
Trichlorofluoromethane	ug/l	
1,2,3-Trichloropropane	ug/l	
Vinyl Acetate	ug/l	
Vinyl Chloride	ug/l	
Xylenes	ug/l	

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
MW-2SR	06/12/97	185	1810	>999	7.75	13.1	<4		10	<0.01	<0.02	200	530	32	<0.03	35	<1	<0.01	1200	0.93	1.6	<0.002	560
MW-2SR	08/27/97	No Sample Taken - Well Obstruction																					
MW-2SR	11/18/97	65	1820	26	7.56	7.6	10				<0.02	320	380	14	0.12	31			990	0.44	2.2	<0.002	450
MW-2SR	04/28/98	45	1560	30	6.87	9.3	<4				<0.02	350	270	2.2	0.12	14			800	0.45	1.6	<0.002	470
MW-2SR	06/23/98	35	1550	20	7.03	16.4	<4		1	<0.01	<0.1	430	290	3	<0.03	17	<1	<0.01	860	0.72	2.3	<0.002	510
MW-2SR	11/25/98	260	1.51	43	7.24	9.6	7.8				<0.1	340	420	11	<0.03	36			830	0.39	2.6	<0.002	440
MW-2SR	02/17/99		1660	25	8.6	3.9	4.7				<0.1	380	350	18	<0.1	18			780	0.65	3.3	<0.002	460
MW-2SR	03/30/99	51	1650	7.4	7.62	7.8	<3				<0.050	347	323	<10.0	0.178	22			878	<1.00	2.7	<0.001	486
MW-2SR	06/29/99	-148	1410	7.74	7.85	15.8	<3				<0.050	334	302	<10.0	0.237	16			766	<1.00	2.4	<0.001	520
MW-2SR	09/30/99	-55	1325	10	7.93	14.6	<3	40	<0.010		0.211	324	376	<10.0	0.243	18	0.127	<0.010	617	<1.00	3.1	0.002	456
MW-2SR	12/29/99	-134	1600	11.8	6.94	5.9	3				<.05	352	317	38.1	<.1	20			900	<.1	5.8	<.005	529
MW-2SR	03/30/00	-130	1450	31	7.44	6.8	<3				<0.05	370	301	14.2	0.2	18			859	<.1	<.5	0.0146	545
MW-2SR	06/22/00	-213	1175	3.4	7.88	15.1	4				<0.05	360	301	22.9	0.171	15			832	<.1	6.9	<0.004	487
MW-2SR	09/21/00	-131	1377	5.8	7.24	14.6	16				<0.05	335	276	17.5	<0.1	<.5			728	<.1	8	0.0082	494
MW-2SR	12/06/00	-104	1617	4.6	7.74	8.2	<3		23.4	<0.01	<0.05	359	300	23.4	<0.1	17	0.143	<0.01	818	2.17	6.4	0.0046	504
MW-2SR	03/22/01	-79	1675	14.3	7.51	5.8	6	100	<0.01		0.056	372	290	19.3	<0.1	12	0.133	<0.01	741	1.99	6.4	<0.004	495
MW-2SR	06/05/01	66	1452	7.9	7.6	14.3	6				<0.1	330	239	17.2	<0.1	64			728	1.35	7.7	<0.004	497
MW-2SR	09/25/01	50	1510	6.9	7.56	56	10				0.335	324	262	28.9	0.145	<.5			719	<.1	7.4	0.0043	481
MW-2SR	12/04/01	41	1223	8.11	7.5	10.5	<3				<0.1	354	368	<10	0.151	18.6			808	3.94	6	0.0094	521
MW-2SR	09/11/02	63	1550	6.9	7.65	15.6	<3	30	<0.01	<0.1	0.1	358	190	18.7	0.261	16.8	0.131	<0.005	755	1.17	6.9	<0.004	473
MW-2SR	06/24/03	45.7	1270	6.47	7.89	14.3	5	10	<0.01	<0.1	0.1	363	421	18.5	0.283	6.43	0.165	<0.005	734	1.82	5.8	<0.004	472
MW-2SR	03/31/04	-25	1500	234	7.09	9.5	<4	175	<0.01	<0.1	0.1	390	230	86	0.21	15	<0.5	<0.01	810	0.78	7.5	<0.002	560
MW-2SR	12/10/04	70	1300	65	7.17	9	<4	900	<0.01	0.048	0.048	360	210	43	0.14	20	<0.5	<0.01	680	0.47	5	<0.002	470
MW-2SR	09/27/05	240	1450	146	6.97	15.3	<4	26	<0.01	<0.1	0.1	410	220	23	0.15	19	<0.5	<0.01	760	0.56	5.7	<0.002	530
MW-2SR	06/27/06	130	1470	10	7.19	15.8	<4	10	<0.01	<0.02	0.02	380	210	24	0.091	18	<0.5	<0.01	830	0.68	3.4	<0.002	480
MW-2SR	09/25/07	205	1260	12	7.82	15.4	<4	80	<0.01	<0.1	0.1	490	190	16	0.05	18	<0.5	<0.01	720	0.76	4.9	<0.003	510
MW-2SR	12/16/08	43	1080	14	7.87	5.4	<4		<.5	<0.01	<0.1	440	170	23	0.11	16	<0.5	<0.01	700	0.51	5.1	<0.003	480
MW-2SR	06/09/10	159.3	2000	6.29	7.34	14.8	63		2	<0.004	<0.5	350	175	36	0.2	15.7	0.16	<0.005	764	0.85	5.2	<0.010	474
MW-2SR	06/14/11	125.6	960	76	7.93	16.6	<24		2	<0.004	<0.05	400	175	18	0.19	15.3	0.14	<0.005	660	<0.5	5.8	<0.010	508
MW-2SR	09/20/12	28	1110	22	7.19	18.5	<24	<80	2	<0.004	0.06	440	130	21	0.11	11.3	0.19	<0.005	644	0.5	6.6	<0.010	458
MW-2SR	11/26/13	253	0.91	23	7.81	7.3	< 6.0	<1.0	5	< 0.004	< 0.05	400	130	22	0.2	12.7	0.17	<0.01	669	0.72	7.67	<0.010	443
MW-2SR	04/21/15	50	1.06	0	7.74	7.72	<4.0	0.757	<5	<0.004	<0.05	420	120	9	0.16	11	0.14	<0.01	644	0.71	6.21	<0.010	451

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
DGC-3S	05/06/92	119	550	28	7.75		<3		<10		0.2	384	17	8	<0.05	46	0.226	<0.01	449	0.25	2.3	0.08	468
DGC-3S	12/15/92																						
DGC-3S	06/12/97	15	247	>999	8.2	10.2	<4		100	<0.01	0.073	210	2.8	55	0.33	52	<1	<0.01	190	0.93	1.5	<0.002	1300
DGC-3S	08/27/97	90	256	>999	7.53	12.3	<4				<0.02	170	3	20	0.24	16			190	1.8	1.5	<0.002	1900
DGC-3S	11/18/97	180	680	80	7.07	8	5				<0.02	320	4.5	27	<0.03	98			440	0.54	5.2	<0.002	550
DGC-3S	04/28/98	50	421	140	7.46	7.8	<4				0.076	220	1.9	2.2	0.074	13			220	<0.04	2	<0.002	680
DGC-3S	06/23/98	70	306	436	7.35	13	<4		40	<0.01	0.15	190	1.7	<3	<0.03	16	<1	<0.01	220	0.36	1.5	<0.002	550
DGC-3S	11/25/98	195	660	195	6.84	9.9	<4				<0.1	410	2.6	33	<0.03	10			440	0.32	2.7	<0.002	480
DGC-3S	02/17/99	350	599	109	7.62	6.8	<4				<0.1	300	7.6	9.7	<0.03	22			270	0.3	3.6	<0.002	320
DGC-3S	03/30/99	122	600	20.1	7.67	4.6	<3				0.067	316	2.02	<10.0	<0.100	<5.0			318	<1.00	2.6	<0.001	286
DGC-3S	06/29/99	-53	290	60.9	7.59	12.9	<3				<0.050	142	1.66	<10.0	0.213	14			184	<1.00	1.3	<0.001	115
DGC-3S	09/30/99	-19	525	158	8.07	12.3	<3		100	<0.010	<0.050	162	<1.00	<10.0	0.309	13	0.153	<0.010	202	2.2	1.4	<0.001	206
DGC-3S	12/29/99	-56	900	11.7	7.26	5.2	<3				<0.050	352	5.81	<10	<1	36			376	1.11	7.1	<0.005	359
DGC-3S	03/30/00	-53	525	11	3.4	6.7	<3				<0.05	281	4.71	<10	<0.1	26			320	<1	3.1	0.0053	294
DGC-3S	06/22/00	-144	420	28	7.74	14	<3				<0.05	181	2.01	<10	<0.1	17			218	<1	1.3	<0.004	189
DGC-3S	09/21/00	44	455	24.6	7.78	13.7	<3				<0.05	221	3.15	<10	<0.1	19			246	<1	1.4	0.0105	211
DGC-3S	12/06/00	-45	541	31	8.01	7.4	<3		75	<0.01	<0.05	283	4.1	11	<0.1	29	<0.048	<0.01	351	<1	4.5	<0.004	326
DGC-3S	03/22/01	-75.2	410	36.3	7.3	5.3	<3		75	<0.01	<0.05	231	2.25	<10	<0.1	15	0.063	<0.01	1220	<1	2.6	<0.004	443
DGC-3S	06/05/01	12	318	90	7.59	9.9	<3				<0.1	145	2.19	<10	0.243	12.8			179	<1	1.1	<0.004	189
DGC-3S	09/25/01	42	274	28.1	8.12	13.3	<3				<0.1	255	1.39	<10	0.254	12			162	1.01	<1	<0.004	259
DGC-3S	12/04/01	92	6340	37.5	7.25	6.9	<3				<0.1	241	7.59	<10	<0.1	39.5			341	1.69	6.8	<0.004	355
DGC-3S	09/11/02	62.5	264	49.4	7.68	13.1	<3		15	<0.01	<0.1	143	1.15	<10	0.218	11.8	0.108	<0.005	180	<1	1.2	<0.004	208
DGC-3S	06/24/03	55	356	21	8.31	14.4	<3		<5	<0.01	<0.1	160	15.5	16.1	0.35	15.5	0.094	<0.005	179	2.06	<1	<0.004	169
DGC-3S	03/31/04	145	403	663	6.68	5.8	<4		117	<0.01	<0.1	210	5.3	9.9	0.042	10	<0.5	<0.01	250	0.32	4.1	<0.002	340
DGC-3S	12/10/04	175	471	130	6.85	8.9	<4		400	<0.01	0.088	300	4.6	28	<0.03	19	<0.5	<0.01	310	0.22	4.5	<0.002	400
DGC-3S	09/27/05	320	290	>999	7.4	12.5	<4		430	<0.01	0.36	190	4.1	98	0.1	14	<0.5	<0.01	290	0.24	1.3	<0.002	580
DGC-3S	06/27/06	250	382	242	7.28	11.9	<4		750	<0.01	0.06	180	4.6	43	0.075	14	<0.5	<0.01	270	0.18	1.4	<0.002	510
DGC-3S	09/25/07	285	230	508	8.41	13.1	<4		400	<0.01	0.12	150	4.2	9.2	0.13	12	<0.5	0.043	150	0.49	1.1	<0.003	1100
DGC-3S	12/16/08	269	483	284	7.59	7.1	<4		<5	<0.01	<0.1	330	7.7	11	<0.03	15	<0.5	<0.01	380	0.34	<1	<0.003	500
DGC-3S	06/10/10	242.3	3000	0.97	7.2	14.8	<12		5	<0.004	<0.5	389	3	36	0.08	10.5	0.1	<0.005	268	<0.5	1.9	<0.010	207
DGC-3S	06/14/11	16.73	260	22.14	8.16	14.8	<12		5	<0.004	0.11	240	<2	<5	0.08	10.5	0.12	<0.005	158	<0.5	1.1	<0.010	171
DGC-3S	09/20/12	101	265	600	7.62	17.1	<12	<80	2	<0.004	0.25	190	<2	36	0.19	11.7	0.11	<0.005	180	0.65	<3.0	<0.010	533
DGC-3S	11/26/13	284	0.594	23	7.47	4.4	< 6.0	<1.0	< 5	< 0.004	0.06	368	5.5	22	<0.1	16.6	0.045	<0.01	451	<0.5	4.03	<0.010	109
DGC-3S	04/21/15	54	0.638	0	7.22	7.77	<4.0	<0.10	<5	<0.004	<0.05	347	12	<5	0.1	<10.0	0.034	<0.01	375	<0.5	2.62	<0.010	353

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.01	
MW-4SR	05/05/92	157	260	85	7.48		7		50		0.04	934	96	196	81	18	0.6836	0.01	880	75.6	33.8	0.48	538
MW-4SR	12/15/92																						
MW-4SR	06/12/97	-25	2430	161	6.49	13.4	15		330	<0.01	0.036	1300	160	200	74	30	<1	<0.01	1200	77	43	0.0088	650
MW-4SR	08/27/97	5	6500	254	6.5	12.8	15				0.053	1300	190	190	82	8.3			1200	92	55	0.017	660
MW-4SR	11/18/97	-80	2500	199	6.37	11.4	19				<0.02	950	190	180	86	29			1200	78	47	0.0053	600
MW-4SR	04/28/98	5	2380	414	6.37	8.1	17				<0.02	1100	180	120	77	<5			1100	78	41	<0.002	740
MW-4SR	06/23/98	-40	2490	472	6.13	13.1	11		250	<0.01	0.14	420	220	150	96	5.5	<1	<0.01	1200	92	51	0.0052	700
MW-4SR	11/25/98	25	2.26	365	5.74	12.4	21				<0.1	1100	170	150	92	<1			1100	110	47	0.0078	730
MW-4SR	02/17/99	90	2280	245	6.91	9.3	25				0.25	940	150	130	85	<1			950	90	41	0.0055	590
MW-4SR	03/30/99	109	2400	281	6.81	7.5	13				1.2	1010	139	98.3	60.3	<5.0			957	72.7	35	0.012	617
MW-4SR	06/29/99	-81	2500	47.8	6.72	14.7	12				<0.050	1280	184	137	77.7	511			1010	25.1	51	0.014	599
MW-4SR	09/30/99	-8	2400	96	6.58	14.2	15		1000	<0.010	<0.050	1000	197	326	90.4	<5.0	0.771	<0.010	1065	88.7	58	0.026	569
MW-4SR	12/29/99	-77	2500	40.5	6.35	9.8	16				<.05	963	153	203	55.1	<5			1020	92.9	63	0.00768	617
MW-4SR	03/30/00	-104	2400	65	6.74	7.4	28				<0.05	1050	117	111	71.5	<5			991	74	39	0.0289	638
MW-4SR	06/22/00	-155	1825	16	6.77	12.3	12				<0.05	954	149	166	55.7	<5			985	78.8	43	0.01	550
MW-4SR	09/21/00	-62	2500	40	6.7	14	19				<0.05	1020	205	136	74.7	<5			1060	77.5	49	0.0209	581
MW-4SR	12/06/00	-35	2420	155	6.91	10.3	8		450	<0.01	<0.05	884	196	13.4	62.3	30	0.706	<0.01	981	92.5	41	0.0127	575
MW-4SR	03/22/01	-71.2	3470	51.5	6.86	7.4	8		1250	<0.002	<0.05	595	140	108	63.1	17	0.548	<0.01	813	92.8	48	0.0097	604
MW-4SR	06/05/01	125	1987	65	6.81	11	5				0.15	1780	157	118	71.3	<5			968	91.5	38	0.0188	631
MW-4SR	09/25/01	45	2200	110	7.62	59	8				<0.1	783	241	141	102	<5			1070	107	45	0.0201	584
MW-4SR	12/04/01	110	2450	79	6.81	12	15				<0.1	1660	171	261	77.7	<5			1050	84.4	34	0.0267	554
MW-4SR	09/11/02	6.77	2400	38.2	6.77	15.2	5		60	<0.01	<0.1	1030	216	138	77.1	<5	0.8	<0.005	1110	108	43	0.0158	591
MW-4SR	06/24/03	45.7	2300	47.5	7.1	15.3	7		625	<0.002	<0.1	1040	86	94	53	<5	0.454	<0.005	797	61.7	30	0.0084	476
MW-4SR	03/31/04	60	2190	488	6.26	7.5	12		375	<0.01	<0.1	900	130	55	86	3.1	0.61	<0.01	850	84	36	0.0045	520
MW-4SR	12/10/04	100	2190	564	6.33	10.9	5.5		1750	<0.01	0.074	790	150	140	82	5.5	0.67	0.016	720	74	42	0.0052	510
MW-4SR	09/27/05	95	2730	>999	6.03	13.8	23		700	0.012	<0.1	1100	250	190	110	3.3	<5	<0.01	1200	96	57	0.0032	8400
MW-4SR	06/27/06	130	2380	793	6.31	12.6	<4		1000	<0.01	<0.02	860	150	580	83	3.9	0.61	<0.01	1000	89	52	0.0061	2100
MW-4SR	09/25/07	Monitoring Location Dry																					
MW-4SR	12/16/08	16	1940	325	6.7	10.3	30		30	<0.01	<0.1	1000	170	230	85	2.1	0.8	<0.01	1000	84	59	0.0032	670
MW-4SR	06/09/10	-25.7	2000	123	6.55	10.08	120		45	<0.004	<0.5	924	230	182	103	<5	0.53	<0.005	1092	112	57	0.013	542
MW-4SR	06/14/11	-26.9	1990	71	6.94	12.4	<24		40	<0.004	<0.05	867	215	226	76.1		0.62	<0.005	1015	106	51.7	0.015	568
MW-4SR	09/20/12	4	3000	5	6.64	17.5	<24	<80	45	<0.004	<0.05	1130	270	233	136	8.48	0.93	0.007	1060	147	52.5	<0.010	1108
MW-4SR	11/26/13	-48	2.32	256	7.14	4.4	15	<1.0	45	<0.004	<0.05	996	185	250	126	<5.0	0.85	<0.01	1072	109	61.2	0.014	604
MW-4SR	04/21/15	-36	2.01	0	6.9	8.94	22	2.36	50	<0.004	<0.05	913	160	136	92.2	<10.0	0.67	<0.01	985	97	45.7	<0.010	562

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
DGC-5	05/06/92	14	>2000	330	6.94		11		40		<0.04	1250	508	225	74.9	8	1,494	<0.01	1840	82	80	0.18	768
DGC-5	12/15/92																						
DGC-5	06/12/97	-275	1820	333	6.69	13.7	13		200	<0.01	<0.02	860	150	180	47	6.5	<1	<0.01	1200	47	48	0.0059	1800
DGC-5	08/27/97	35	3930	>999	6.55	14	24				<0.02	1300	370	300	98	5.2			1800	110	79	<0.002	1900
DGC-5	11/18/97	-80	1780	>999	6.55	11.2	18				<0.02	830	67	130	25	15			980	22	32	<0.002	2800
DGC-5	04/28/98	-70	1030	>999	6.4	7.9	14				<0.02	660	37	45	4.9	<5			570	6.5	17	<0.002	2000
DGC-5	06/23/98	-85	2350	>999	6.31	12.1	16		200	<0.01	0.13	1600	210	210	65	2.8	<1	<0.01	1300	64	43	<0.002	6100
DGC-5	11/25/98	-20	2.26	905	6.07	10.9	31				<0.1	2200	240	180	75	<1			1500	82	51	0.008	3700
DGC-5	02/17/99	15	2020	411	8.14	8	23				0.13	780	70	110	25	<1			760	27	31	0.0037	2300
DGC-5	03/30/99	40	1340	35.6	6.89	6.9	16				<0.050	744	44.7	37.6	11.4	35			634	17.3	5.1	0.011	756
DGC-5	06/29/99	-106	3400	36.4	6.82	14.3	17				<0.050	1350	307	411	59.9	<5.0			1460	14.2	66	0.032	871
DGC-5	09/30/99	-71	4900	120	6.69	13.9	24		500	0.021	<0.050	1770	581	1290	125	<5.0	2.2	<0.010	2160	163	78	0.064	845
DGC-5	12/29/99	-65	1500	91	6.38	7.4	29				<.05	814	55.9	22.9	16.9	<5			851	25.4	40	<.005	838
DGC-5	03/30/00	-83	900	35	6.67	6.9	10				<0.05	576	3.42	73.2	5.53	<10			479	5.38	25	0.0081	481
DGC-5	06/22/00	-110	600	8	6.85	14.7	14				<0.05	400	3.97	57.1	2.63	<5			460	3.46	25	<0.004	367
DGC-5	09/21/00	-59	1200	19	6.57	14.7	11				0.095	615	31.3	80.3	15.1	<5			621	24.8	40	0.0154	606
DGC-5	12/06/00	-66	1205	950	7.05	10	6		1250	<0.01	<0.05	476	2.45	50.9	13.2	19	0.533	<0.01	766	20.7	27	0.008	7800
DGC-5	03/22/01	-56	2770	62	6.87	5.6	10		2500	<0.002	<0.05	265	<1	52.8	2.74	11	0.107	<0.01	321	20.7	29	<0.004	1720
DGC-5	06/05/01	52	950	28.3	7.03	11.8	9				<0.1	484	90.2	52.1	<5	<5			339	5.04	16	0.0053	3140
DGC-5	09/25/01	37	1195	42.6	7.21	57	10				<0.1	942	212	132	59.6	<5			1200	59.4	170	0.0098	1050
DGC-5	12/04/01	45	1255	41.3	7.1	12.3	5				<0.1	5100	91.9	69.8	0.86	<5			833	24.1	17	0.0052	647
DGC-5	09/11/02	45	2870	37.7	6.81	17.1	5		150	<0.002	<0.1	1010	243	210	52.2	<5	1.33	<0.005	1280	68.5	84	0.0101	1230
DGC-5	06/24/03	19.8	2700	45.5	7.15	15.1	8		175	<0.002	<0.1	395	2.66	38.1	2.63	<5	0.205	<0.005	434	4.7	13	0.0118	484
DGC-5	03/31/04	110	0.835	>999	6.48	6.7	8.3		300	<0.01	<0.1	530	35	240	15	1.5	<0.5	<0.01	540	15	17	<0.002	7900
DGC-5	12/10/04	85	990	>999	6.3	9.9	4.6		3000	<0.01	0.046	420	20	130	7.8	3	<0.5	<0.01	340	5.9	15	<0.002	1300
DGC-5	09/27/05	0	3270	>999	6.07	14.5	15		450	0.012	<0.1	1100	360	200	67	2.2	<5	<0.01	1600	60	75	<0.002	19000
DGC-5	06/27/06	40	1660	>999	6.62	12.4	16		1500	<0.01	<0.02	530	63	160	23	3.3	<0.5	<0.01	640	26	25	<0.002	2500
DGC-5	09/25/07	10	2970	>999	7.08	14.3	11		4000	<0.01	<0.1	1100	350	210	83	2.9	2.8	<0.01	1600	93	71	0.006	7100
DGC-5	12/16/08	-17	1020	>999	6.82	9	7.8		30	<0.01	<0.1	390	48	80	15	3	0.68	<0.01	640	17	18	<0.003	4400
DGC-5	06/09/10	33.2	3000	385	6.62	11.1	<24		20	<0.004	<0.5	830	35	109	18	<5	<0.1	<0.005	504	28.2	15	0.019	1539
DGC-5	06/14/11	-116.4	560	221	7.24	12.9	<12		15	<0.004	<0.05	380	25	43	7.58	<5	<0.1	<0.005	348	8.45	10.6	<0.010	869
DGC-5	09/20/12	-100	2470	>800	6.56	16.5	13	<80	30	<0.004	<0.05	850	245	233	41	7.59	0.76	<0.005	1091	45.3	39.3	0.022	1973
DGC-5	11/26/13	-71	0.872	202	7.13	4.4	< 6.0	<1.0	15	<0.004	< 0.05	484	30	65	15.1	6.38	0.15	<0.01	532	18.1	18.1	0.014	645
DGC-5	04/21/15	-50	0.002	0	7.14	9.25	<4.0	<0.10	<5	<0.004	<0.05	247	<4	18	2.56	<10.0	<0.02	<0.01	264	3.13	3.77	<0.010	294

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Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
MW-6SR	05/05/92	-19	>2000	70	8.01		8		25		<0.04	878	554	249	0.07	6	1.122	<0.01	1920	1.05	86.4	0.02	686
MW-6SR	12/15/92																						
MW-6SR	06/12/97	-75	3400	>999	6.6	11.4	35		200	<0.01	<0.02	1500	520	290	0.88	6.9	1.8	<0.01	2300	7.6	84	0.011	1600
MW-6SR	08/27/97	45	3480	320	6.57	15.3	27				<0.02	1400	510	330	0.74	12			2100	6.1	94	0.01	1000
MW-6SR	11/18/97	-50	3270	530	6.58	10.8	22				<0.02	1100	440	230	0.26	18			1900	4.6	66	0.0042	800
MW-6SR	04/28/98	-30	3260	295	6.57	8.4	37				<0.02	1200	370	190	1.7	<5			2100	7.5	85	<0.002	1200
MW-6SR	06/23/98	-80	3210	238	6.22	13.7	23		130	<0.01	<0.1	1600	500	260	1.3	4.8	<1	<0.01	2100	7.9	82	0.0083	1100
MW-6SR	11/25/98	65	2950	208	5.73	11.3	31				<0.1	1300	440	140	1	<1			2000	6.2	70	0.008	1000
MW-6SR	02/17/99	45	3230	102	7.2	8.4	>45				<0.1	1100	520	190	2.7	13			1900	7.8	78	0.0053	1000
MW-6SR	03/30/99	81	3400	86.4	6.92	5.9	19				<0.050	1130	451	285	1.07	31			1820	3.65	69	0.032	978
MW-6SR	06/29/99	-103	3500	21	6.92	14.5	19				<0.050	1300	513	383	0.507	7.6			1980	8.47	100	0.05	1060
MW-6SR	09/30/99	4	3400	40	6.65	14.6	12		250	<0.010	<0.050	1160	278	265	0.759	24	1.05	<0.010	1661	4.44	124	0.034	861
MW-6SR	12/29/99	-51	2900	12.8	6.67	7.2	<3				<.05	1350	379	241	1.02	16			1570	7.35	79	0.0132	834
MW-6SR	03/30/00	-75	2500	33	7.67	6.4	17				<0.05	1050	273	217	0.457	9			1370	1.39	51	0.0144	760
MW-6SR	06/22/00	-147	1875	6.3	7.14	14.9	8				<0.05	1028	378	196	1	<5			1670	4.18	53	0.026	728
MW-6SR	09/21/00	-33	2530	16	6.82	14.7	11				<0.05	1090	373	270	0.616	10			1510	2.39	69	0.0252	796
MW-6SR	12/06/00	-28	2860	164	7.16	9.3	6		225	<0.01	<0.05	972	383	121	0.301	7.4	0.812	<0.01	1520	5.08	59	0.0177	844
MW-6SR	03/22/01	-27.3	2710	23.5	6.93	5.3	15		450	<0.01	<0.05	968	275	108	0.306	<5	0.597	<0.01	1280	5.52	69	0.0163	738
MW-6SR	06/05/01	7.02	1150	46	7.08	10.8	17				<0.1	1260	462	341	10.4	<5			1990	14.8	1.4	0.0386	1000
MW-6SR	09/25/01	65.7	2800	15.2	6.9	58	18				<0.1	1160	470	315	10.2	<5			1960	13.4	130	0.0344	1050
MW-6SR	12/04/01	61	3492	33	6.85	11	13				<0.1	1180	494	287	4.17	<5			1760	6.73	52	0.028	956
MW-6SR	09/11/02	56	2830	75	6.95	15.5	12		40	<0.01	<0.1	1250	261	290	12.8	<5	1.49	<0.005	2050	16.4	199	0.0226	1570
MW-6SR	06/24/03	36.3	410	45.5	7.87	14.2	3		30	<0.01	<0.1	668	348	94	0.137	<5	0.793	<0.005	825	2.06	27	0.0165	731
MW-6SR	03/31/04	35	2990	>999	6.13	7.9	18		150	<0.01	<0.1	920	340	380	13	1.8	1.1	<0.01	1600	17	60	0.0035	2300
MW-6SR	12/10/04	120	2210	265	6.46	9.9	13		2750	<0.01	0.058	750	290	130	9.2	5.1	0.68	0.027	1000	5.2	37	<0.002	600
MW-6SR	09/27/05	65	3430	>999	6.04	14	24		330	0.015	0.27	1200	380	140	27	2.9	<5	<0.01	1900	31	88	<0.002	2400
MW-6SR	06/27/06	135	2240	>999	6.64	14.1	64		1000	<0.01	<0.02	800	250	200	19	3.7	1.1	<0.01	1400	23	68	<0.002	1200
MW-6SR	09/25/07	50	3220	>999	6.38	13.3	38		4000	<0.01	<0.1	1200	460	210	33	4.8	2.4	0.016	1900	39	97	<0.003	3800
MW-6SR	12/16/08	92	1690	>999	6.97	8.7	15		12	<0.01	<0.1	1200	190	100	27	3.4	1.1	<0.01	1200	30	39	<0.003	1400
MW-6SR	06/09/10	139.7	2000	22.19	6.64	12.1	120		40	<0.004	<0.5	890	340	218	37.3	<5	1	<0.005	1460	45	68	0.012	665
MW-6SR	06/14/11	-19.9	1760	113	7.04	14.1	<24		25	0.014	0.05	1000	330	189	29.7	<5	0.98	<0.005	1332	32.4	69.8	<0.010	757
MW-6SR	09/20/12	-23	3540	288	6.57	17	35	<80	45	<0.004	0.07	1290	5250	326	45.8	8.18	1.3	<0.005	1672	49.7	86.2	0.011	1732
MW-6SR	11/26/13	71	1.72	352	7.25	4.4	19	<1.0	25	0.008	0.16	728	180	250	34.1	6.79	0.78	<0.01	961	40	47.5	<0.010	593
MW-6SR	04/21/15	8	1.46	0	7.12	8.1	14	1.41	15	<0.004	0.08	667	155	93	28.4	<10.0	0.53	<0.01	859	30.9	30.9	<0.010	653

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10	250			2	250	1	0.2	500			0.01	
MW-7S	05/05/92	36	880	72	7.97		5		50		<0.04	554	26	20	5.78	51	0.211	<0.01	618	6.58	13.4	0.02	542
MW-7S	12/15/92																						
MW-7S	06/12/97	195	1490	640	7.1	12.1	18		330	<0.01	<0.02	960	23	85	2.4	16	<1	<0.01	920	5.5	18	<0.002	830
MW-7S	08/27/97	75	930	806	7.18	12.2	13				<0.02	480	18	29	1	32			570	4	6.8	<0.002	900
MW-7S	11/18/97	-70	1560	148	6.7	9.8	25				<0.02	790	15	89	1.3	28			920	4.8	21	<0.002	660
MW-7S	04/28/98	-90	1320	216	6.15	7.8	12				<0.02	790	5.6	120	1.8	7.2			750	4.8	17	<0.002	900
MW-7S	06/23/98	-20	1200	109	6.3	12.9	6.6		250	<0.01	0.14	720	13	59	2	11	<1	<0.01	750	5.9	17	<0.002	860
MW-7S	11/25/98	-55	1.14	88	6.03	10.4	25				<0.1	740	14	91	3.8	<1			770	6.5	22	<0.002	610
MW-7S	02/17/99	-25	1300	199	7.08	7.3	23				0.14	680	17	55	4.4	7.9			710	6.6	19	<0.002	700
MW-7S	03/30/99	39	1330	98.5	6.96	5.8	17				<0.050	740	7.37	37.6	2.94	<5.0			697	4.34	19	0.006	664
MW-7S	06/29/99	-156	1225	17.7	7.29	24.1	12				<0.050	502	20	32.5	3.14	<5.0			677	<1.00	25	<0.001	615
MW-7S	09/30/99	-45	990	16	6.68	12.7	6		250	0.156	<0.050	540	1.14	55	1.37	14	0.051	<0.010	568	9.35	20	0.004	480
MW-7S	12/29/99	-84	6.7	17.8	6.53	5.9	10				<.05	99.6	6.76	43.9	2.95	<5			608	9	23	<.005	541
MW-7S	03/30/00	-98	1100	18	6.6	7	14				<0.05	598	7.06	59.4	4.08	<5			640	4.03	25	0.0062	583
MW-7S	06/22/00	-152	900	5.5	6.97	15.3	12				<0.05	637	7.82	57.8	2.52	<5			709	3.37	27	<0.004	576
MW-7S	09/21/00	-89	1107	7.5	6.75	12.9	14				<0.05	608	10.4	35.8	3.51	<5			598	5.28	30	0.0047	539
MW-7S	12/06/00	-74	1108	4.5	7.18	9	10		625	<0.01	<0.05	331	7.5	27.1	4.48	43	0.07	<0.01	604	4.51	33	<0.004	537
MW-7S	03/22/01	-25	410	17.6	7.13	5.2	12		500	<0.002	<0.05	605	9.92	58.4	0.769	6.6	0.098	<0.01	300	4.6	38	<0.004	573
MW-7S	06/05/01	45.6	715	13.3	7.05	11.5	5				<0.1	541	7.22	58	10.1	<5			609	5.72	17	0.0049	472
MW-7S	09/25/01	69	1330	12.2	7.21	57	3				<0.1	580	21.9	22	2.49	<5			456	3.03	11	<0.004	365
MW-7S	12/04/01	80	1245	17.2	7.15	11.1	7				<0.1	515	7.51	45	4.19	<5			530	1.15	11	<0.004	440
MW-7S	09/11/02	70	1110	16.3	6.71	16	<3		150	<0.01	<0.1	436	19.6	15.6	2.64	<5	0.107	<0.005	497	3.42	8.3	<0.004	376
MW-7S	06/24/03	72.1	1290	11.5	7.15	14.5	6		200	<0.002	<0.1	353	2.91	28.5	0.214	<5	0.079	<0.005	419	4.2	12	<0.004	353
MW-7S	03/31/04	-25	797	118	7.28	8.5	18		150	<0.01	<0.1	420	9.1	40	3.6	2.3	<0.5	<0.01	410	4.9	11	<0.002	350
MW-7S	12/10/04	55	635	110	6.43	9	<4		2500	<0.01	0.046	360	5.7	39	4.9	5.8	<0.5	<0.01	220	3.9	13	<0.002	300
MW-7S	09/27/05	25	729	189	6.82	12.3	7.5		280	<0.01	<0.1	350	20	21	2	6.7	<0.5	<0.01	410	2.9	6.1	<0.002	480
MW-7S	06/27/06	95	1080	73	6.84	11.5	<4		1500	<0.01	<0.02	420	25	44	3.3	3.8	<0.5	<0.01	540	11	12	<0.002	410
MW-7S	09/25/07	30	563	35	7.16	12.4	<4		240	<0.01	<0.1	350	19	20	1.5	7.2	<0.5	<0.01	360	2.5	6.3	<0.003	380
MW-7S	12/16/08	55	624	7	7.12	8.1	<4		<5	<0.01	<0.1	500	4.5	24	1.2	12	<0.5	<0.01	490	1.9	6.1	<0.003	480
MW-7S	06/09/10	-11.9	3000	49.1	6.73	11.5	138		15	<0.004	<0.5	310	6	73	2.9	<5	<0.1	<0.005	404	3.98	7.5	<0.010	325
MW-7S	06/14/11	29.9	480	36.38	7.18	13.2	24		5	<0.004	<0.05	313	6.5	40	2.38	<5	<0.1	<0.005	368	3.42	8.4	<0.010	309
MW-7S	11/26/13	7	0.644	12.4	7.11	4.4	< 6.0	<1.0	10	< 0.004	0.26	432	4	38	1.44	12.6	0.045	<0.01	486	2.18	8.58	<0.010	425
MW-7S	04/21/15	-27	0.639	0	7.3	8.6	<4.0	<0.10	15	<0.004	0.06	380	<2	14	1.65	<10.0	<0.02	<0.01	397	2.13	6.31	<0.010	361

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
MW-8S	05/05/92	110	1930	2.9	7.96		4		<10		<0.04	478	713	147	0.15	4	0.355	<0.01	1610	0.59	25.2	0.02	734
MW-8S	12/15/92																						
MW-8S	06/12/97	85	1400	169	7.89	12.5	<4		15	<0.01	<0.02	270	240	45	0.053	12	<1	<0.01	810	1.1	7.3	<0.002	450
MW-8S	08/27/97	160	2470	144	7.16	16.1	7.6				<0.02	400	520	79	0.2	8.9			1200	3.6	15	<0.002	590
MW-8S	11/18/97	110	3670	107	6.76	8.7	12				<0.02	540	32	95	0.095	10			2100	1.8	24	<0.002	720
MW-8S	04/28/98	35	2210	133	7.3	9.3	5.6				<0.02	380	480	36	0.069	7			1200	1.6	15	<0.002	610
MW-8S	06/23/98	60	2220	696	7.02	12.9	4.4		7	<0.01	<0.1	400	490	35	0.093	13	<1	<0.01	1300	1.2	15	<0.002	540
MW-8S	11/25/98	150	3.44	216	6.63	9.8	18				<0.1	520	1100	100	0.062	<10			2000	2.1	23	0.0039	660
MW-8S	02/17/99	230	2790	280	8.15	6.8	14				<0.1	380	700	57	0.091	8			1400	1.9	18	<0.002	590
MW-8S	03/30/99	103	3200	48.2	7.35	5.8	10				<0.050	406	717	48.4	0.167	15			1490	<1.00	23	0.008	645
MW-8S	06/29/99	-141	1100	13.7	7.65	16	<3				<0.050	229	221	<10.0	0.3	6			561	1.08	11	0.002	346
MW-8S	09/30/99	-48	5500	100	6.83	13.7	14		200	<0.010	<0.050	690	1540	338	0.196	8.9	0.599	<0.010	3020	<1.00	54	0.02	1120
MW-8S	12/29/99	-74	4750	14.24	6.85	5.9	14				<.05	908	1220	286	0.299	<5			2400	2.49	47	<.005	1010
MW-8S	03/30/00	-116	2050	21	7.42	5.6	12				<0.05	376	520	65.5	0.397	<5			1150	1.39	26	0.007	496
MW-8S	06/22/00	-165	1525	7.3	7.47	15.7	5				<0.05	145	391	28.6	0.299	7.5			896	<1	16	<0.004	359
MW-8S	09/21/00	-96	3370	8.9	7.17	14.3	8				<0.05	481	878	93.9	0.397	<5			2000	2.1	30	0.0127	656
MW-8S	12/06/00	-102	954	60	7.87	8.5	3		75	<0.01	<0.05	175	167	<10	0.279	6	0.123	<0.01	465	<1	4.1	<0.004	258
MW-8S	03/22/01	-67.2	1077	16.2	7.39	5.7	6		150	<0.01	0.139	307	228	17.4	0.262	6.7	0.125	<0.01	527	<1	25	0.0145	278
MW-8S	06/05/01	-75.3	1260	14.6	7.4	11.3	<3				<0.1	210	274	19.8	0.421	6.74			438	<1	5.2	<0.004	293
MW-8S	09/25/01	15.2	2700	14.1	7.31	5.8	5				<0.1	420	943	64.9	0.357	<5			1750	2.02	19	0.0151	652
MW-8S	12/04/01	87	1410	56	7.4	11.3	8				<0.1	632	1370	132	0.236	<5			2270	3.38	33	0.0089	854
MW-8S	09/11/02	130	1190	12.9	7.41	17	5		25	<0.01	<0.1	609	640	103	0.384	<5	0.62	<0.005	2360	2.74	34	0.0109	802
MW-8S	06/24/03	24.2	1240	25.5	7.51	14.2	<3		10	<0.01	<0.1	224	285	19.1	0.434	<5	0.427	<0.005	707	1.53	8.1	<0.004	517
MW-8S	03/31/04	-50	1280	259	7.3	7.5	15		100	<0.01	<0.1	220	240	81	0.33	4.9	<0.5	<0.01	620	1.1	7	<0.002	440
MW-8S	12/10/04	10	1820	87	7.07	8	9.5		3000	<0.01	0.035	430	380	96	0.27	7.2	<0.5	<0.01	990	1.9	19	<0.002	470
MW-8S	09/27/05	25	4810	309	6.58	14.4	15		330	<0.01	<0.1	880	1100	150	0.25	7.3	0.87	<0.01	2500	3.1	57	<0.002	800
MW-8S	06/27/06	75	2670	542	7.24	11.8	10		1500	<0.01	<0.02	460	450	130	0.22	7.9	0.56	<0.01	1300	2.7	21	<0.002	74
MW-8S	09/25/07	55	1130	>999	7.47	12.3	14		2000	<0.01	<0.1	250	200	18	0.3	18	<0.5	<0.01	560	0.95	1.8	<0.003	660
MW-8S	12/16/08	-42	2240	372	7.54	8.2	9.6		10	<0.01	<0.1	650	490	85	0.19	8.9	0.78	<0.01	1500	2.2	27	<0.003	540
MW-8S	06/10/10	-72.8	3000	19.44	7.32	17	<24		15	<0.004	<0.5	409	360	36	0.33	11.4	0.38	<0.005	916	2.92	13	<0.010	350
MW-8S	06/14/11	-116.1	1210	65	7.52	15.5	8		10	<0.004	<0.05	340	340	58	0.33	9.35	0.39	<0.005	875	1.76	14.2	<0.010	377
MW-8S	09/20/12	-125	958	82	6.97	18.4	<24	<80	<2	<0.004	<0.05	210	230	36	0.61	39.3	<0.1	<0.005	635	1	<3.0	0.03	775
MW-8S	11/26/13	-101	1.87	26.2	7.72	4.4	7.2	1.16	15	< 0.004	0.06	440	400	76	0.59	8.86	0.62	<0.01	478	2.47	23.9	0.015	412
MW-8S	04/21/15	-99	1.49	0	7.34	7.76	5.6	1.1	10	<0.004	<0.05	353	310	41	0.34	14.1	0.38	<0.01	935	1.58	13.3	<0.010	371
MW-9S	05/05/92	55	>2000	32	7.95		12		50		<0.04	1120	210	219	175	6	1.029	<0.01	979	176	595	0.63	360
MW-9S	06/24/03	60.5	1400	36.6	7.95	15.4	20		45	<0.01	<0.1	937	250	233	122	<5	0.723	<0.005	1040	125	47	0.0187	380
MW-9S	03/31/04	35	2.7	92	7.35	8.8	36		117	<0.01	<0.1	920	240	190	150	1.6	0.9	<0.01	950	130	34	0.006	380
MW-9S	12/10/04	95	2.45	55	6.78	11.5	32		3250	<0.01	0.13	940	240	210	130	2	0.86	<0.01	680	140	62	0.0095	380
MW-9S	06/09/10	13.6	3000	25.99	7.05	10.9	36		45	<0.004	<0.5	800	330	328	133	<5	0.77	<0.005	1080	153	80	0.034	431
MW-9S	06/14/11	-22.9	2090	65	7.29	13.1	32		40	<0.004	0.33	873	335	264	109	5.05	0.8	<0.005	1035	135	67	0.012	410
MW-9S	11/26/13	-44	2.76	128	7.42	4.4	24	<1.0	45	<0.004	0.4	864	420	326	128	< 5.0	0.88	<0.01	1179	128	91.6	0.014	479
MW-9S	04/21/15	66	2.54	0	7.23	9.43	22	5.02	45	<0.004	<0.05	804	320	215	120	<10.0	0.85	<0.01	1186	122	73.2	<0.010	417

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Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10	250			2	250	1	0.2	500			0.001	
MW-10S	05/05/92	-83	1490	134	7.25		12		340		<0.04	826	85	136	41.3	5	0.505	<0.01	1020	43	41.5	0.06	624
MW-10S	12/15/92																						
MW-10SR	06/12/97	290	699	127	6.39	11.4	<4		10	<0.01	<0.02	380	21	40	0.089	30	<1	<0.01	360	1	1.5	<0.002	1500
MW-10SR	08/27/97	155	721	>999	6.74	13.3	5.7				<0.02	400	29	34	0.23	33			440	2.7	2.4	<0.002	2100
MW-10SR	11/18/97	145	718	458	7.3	8.8	4				0.11	420	31	11	0.039	38			410	0.32	1.9	<0.002	400
MW-10SR	04/28/98	135	696	169	7.52	8.4	<4				0.056	460	26	<1	0.097	24			370	0.41	1.4	<0.002	1300
MW-10SR	06/23/98	155	628	213	7.05	14.8	<4		14	<0.01	0.11	320	22	7	0.056	33	<1	<0.01	390	0.33	1.7	<0.002	330
MW-10SR	11/25/98	210	0.665		6.58	10	<4				<0.1	340	30	54	<0.03	48			390	0.27	1.6	<0.002	430
MW-10SR	02/17/99	2.85	672	3.4	7.48	8	<4				<0.1	300	35	12	0.041	31			260	0.32	1.4	<0.002	600
MW-10SR	03/30/99	243	650	18.4	7.76	7.1	<3				<0.050	312	23.3	<10.0	0.101	43			344	<1.00	<1.0	<0.001	292
MW-10SR	06/29/99	-74	1150	120	7.6	15.5	<3				0.099	340	31.5	<10.0	0.173	30			393	<1.00	1.5	<0.001	341
MW-10SR	09/30/99	130	775	45.3	7.73	13.5	<3		10	<0.010	0.121	336	30.6	<10.0	0.218	30	0.133	<0.010	395	<1.00	1.3	<0.001	747
MW-10SR	12/29/99	11	740	39.3	6.89	7.2	<3				<0.5	347	53.2	<10	<1	30			409	2.1	1.4	<0.005	462
MW-10SR	03/30/00	-102	725	45	6.74	6	<3				<0.05	336	37.8	<10	0.251	26			421	<1	1.2	<0.004	402
MW-10SR	06/22/00	-193	675	16	7.99	16.1	<3				<0.05	321	34.9	22.2	0.142	29			387	<1	1.1	<0.004	375
MW-10SR	09/21/00	-29	998	90	7.47	12.7	<3				<0.05	318	38.9	<10	0.169	20			663	1.41	<1	0.0051	347
MW-10SR	12/06/00	-72	717	153	8.1	8.6	<3		50	<0.01	<0.05	317	38	<10	<0.1	33	0.134	<0.01	404	<1	1.2	<0.004	393
MW-10SR	03/22/01	-7.7	660	38.1	6.96	6.4	<3		750	<0.01	<0.05	326	38.6	<1	0.123	31	0.166	<0.01	387	<1	1.2	<0.004	384
MW-10SR	06/05/01	17.6	775	22.3	7.71	12.6	<3				<0.1	318	36.7	12.5	0.181	28.1			394	<1	1.1	0.0041	393
MW-10SR	09/25/01	115	715	25.7	7.52	60	<3				<0.1	312	34.8	<10	0.2	28.9			378	<1	1.3	<0.004	454
MW-10SR	12/04/01	140	627	13.3	7.57	11.5	<3				0.183	329	44.3	<10	0.1	27			404	<1	<1	<0.004	458
MW-10SR	09/11/02	197	910	22.3	7.39	16.6	<3		10	<0.01	0.118	325	34.9	<10	0.172	25.1	0.131	<0.005	423	1.49	<1	<0.004	437
MW-10SR	06/24/03	15.6	1095	45.1	7.42	15.1	<3		<5	<0.01	<0.1	576	29.9	<10	<0.1	28.5	0.062	<0.005	618	1.32	1.4	<0.004	572
MW-10SR	03/31/04	130	670	>999	6.62	8.3	18		88	<0.01	<0.1	310	37	120	0.66	26	<0.5	<0.01	530	0.79	2.6	<0.002	1500
MW-10SR	12/10/04	290	563	224	7.14	8	<4		500	<0.01	0.19	290	30	31	<0.03	23	<0.5	<0.01	290	0.2	1.3	<0.002	360
MW-10SR	09/27/05	305	811	490	6.29	14.2	<4		300	<0.01	0.25	310	48	5.3	0.11	27	<0.5	<0.01	530	0.19	1.4	<0.002	700
MW-10SR	06/27/06	290	703	274	6.78	13.6	13		1300	<0.01	0.026	340	47	78	0.083	23	<0.5	<0.01	480	0.22	1.3	<0.002	690
MW-10SR	09/25/07	205	621	>999	5.76	12	<4		2000	<0.01	0.17	310	28	13	0.13	22	0.59	<0.01	350	0.46	1.9	<0.003	2500
MW-10SR	12/16/08	535	594	229	6.27	7.2	<4		<5	<0.01	<0.1	360	48	9.1	0.041	26	<0.5	<0.01	550	0.24	1.7	<0.003	590
MW-10SR	06/10/10	201.6	4000	17.16	7.42	13.6	4		5	<0.004	<0.5	809	60	73	0.08	25.5	0.14	<0.005	472	<0.5	1.1	<0.010	350
MW-10SR	06/14/11	102.7	580	43.4	7.86	15	<4		5	<0.004	0.07	293	38	9	0.32	24.3	0.14	<0.005	377	<0.5	1.6	<0.010	461
MW-10SR	09/20/12	80	530	520	7.5	16.1	<2	<80	<2	<0.004	0.12	290	30	15	0.18	19.7	0.14	<0.005	325	0.57	<3.0	<0.010	459
MW-10SR	11/26/13	126	0.602	66.3	7.95	4.4	<4.0	<1.0	<5	<0.004	0.11	300	52	79	0.22	26.3	0.21	<0.01	517	<0.5	<1.1	<0.010	370
MW-10SR	04/21/15	13	0.692	0	7.89	9.49	<4.0	0.566	<5	<0.004	0.05	327	30	<5	0.21	17.6	0.15	<0.01	357	<0.5	1.69	<0.010	334

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
MW-11S	05/05/92	84	>2000	255	7.36		14		50		<0.04	714	653	317	0.06	7	1.586	<0.01	1850	1.03	84.8	0.04	664
MW-11S	12/15/92																						
MW-11SR	06/12/97	190	980	100	7.57	10.2	19		15	<0.01	<0.02	460	95	19	<0.03	21	<1	<0.01	550	0.72	2.5	<0.002	600
MW-11SR	08/27/97	150	728	694	7.41	12.5	7.8				<0.02	310	39	15	0.087	21			270	3.2	2.6	<0.002	740
MW-11SR	11/18/97	135	1770	61	6.51	7.8	16				<0.02	570	240	36	<0.03	37			1000	0.98	9.2	<0.002	630
MW-11SR	04/28/98	-5	1580	128	7.64	7.6	7.2				<0.02	530	220	15	0.044	17			820	1	7.6	<0.002	800
MW-11SR	06/23/98	30	1670	397	6.85	11.1	9.5		2	<0.01	0.16	550	200	18	0.071	25	<1	<0.01	920	1.2	8.1	<0.002	1400
MW-11SR	11/25/98	-15	1.86	294	6.85	8.7	11				<0.1	830	380	160	0.074	8.7			1100	1.4	11	<0.002	1100
MW-11SR	02/17/99	230	1860	415	8.25	4.6	13				0.16	580	260	39	0.067	12			860	1.2	12	0.0046	1200
MW-11SR	03/30/99	56	1800	52.6	7.39	5.7	8				<0.050	608	248	22.4	0.108	27			1010	<1.00	12	0.002	702
MW-11SR	06/29/99	-143	1750	279	7.4	11.3	6				<0.050	569	230	70	0.412	27			952	<1.00	16	<0.001	1180
MW-11SR	09/30/99	-54	2100	68	7.27	12.9	83		500	<0.010	<0.050	814	268	475	0.452	22	0.739	<0.010	1230	<1.00	101	0.029	1050
MW-11SR	12/29/99	-184	1800	44.4	7.3	7.2	73				<.05	748	316	121	0.252	<5			1250	1.83	58	0.00957	786
MW-11SR	03/30/00	7.08	1800	12	7.08	6.2	32				<0.05	662	248	88	0.375	<5			1030	1.33	31	0.0128	659
MW-11SR	06/22/00	-141	1225	28	7.07	15.3	22				<1	575	215	110	0.249	<5			879	<1	24	0.008	535
MW-11SR	09/21/00	-111	1583	22	7.02	13.8	5				0.108	543	200	36.8	0.2	83			871	1.01	12	0.0042	478
MW-11SR	12/06/00	-21	1620	71.5	7.87	7.7	<1		600	<0.01	<0.05	250	192	28.2	<0.1	60	0.426	<0.01	874	<1	13	<0.004	716
MW-11SR	03/22/01	-49.2	1760	24.3	7.33	4	3		200	<0.01	<0.05	285	180	16.8	<0.1	18	0.416	<0.01	848	<1	20	0.0047	539
MW-11SR	06/05/01	-98	1540	24	7.2	10.6	<3				<0.1	549	182	31.7	0.187	7.21			1840	1.01	8.9	<0.004	549
MW-11SR	09/25/01	5	1355	49.8	7.42	13.5	11				<0.1	364	213	57.7	<0.1	151			816	1.85	26	0.0135	358
MW-11SR	12/04/01	60	1386	48.7	7.45	11.3	<3				<0.1	571	209	31	<0.1	11.4			914	5.09	7.5	<0.004	635
MW-11SR	09/11/02	Sampling Location Dry																	Sampling Location Dry				
MW-11SR	06/24/03	27.7	1645	27.6	7.41	14.2	4		40	<0.01	<0.1	509	141	19.8	0.137	6.88	0.299	<0.005	709	3.09	9.6	<0.004	452
MW-11SR	03/31/04	5	1470	175	6.34	6.4	<4		70	<0.01	<0.1	480	140	29	0.06	33	<0.5	<0.01	700	0.97	9	<0.002	450
MW-11SR	12/10/04	85	1220	35	6.72	6.3	<4		700	<0.01	0.049	550	75	30	0.045	21	0.51	<0.01	400	0.52	8	<0.002	460
MW-11SR	09/27/05	80	1350	603	6.49	12.7	4.8		34	<0.01	0.15	410	110	28	0.06	45	0.19	<0.01	800	0.87	10	<0.002	550
MW-11SR	06/27/06	-5	1650	273	6.93	11.8	<4		1000	<0.01	<0.02	590	150	73	0.056	9.3	0.57	<0.01	870	1.5	11	<0.002	690
MW-11SR	09/25/07	Monitoring Location Dry																					
MW-11SR	12/16/08	15	1010	359	7.39	6.8	<10		<5	<0.01	<0.1	530	89	29	<0.03	24	<0.5	0.024	690	0.8	8.7	<0.003	740
MW-11SR	06/10/10	41.3	3000	31.19	6.85	15.2	25		10	<0.004	<0.5	789	100	73	0.03	13.9	0.45	<0.005	704	1.02	8.5	<0.010	441
MW-11SR	06/14/11	-24.6	930	64	7.37	13.9	<12		5	<0.004	<0.05	533	97	30	0.04	8.13	0.54	<0.005	735	0.78	8.8	<0.010	476
MW-11SR	11/26/13	50	0.784	37.9	7.46	4.4	<6.0	<1.0	5	<0.004	0.15	508	35	26	0.12	17	0.34	<0.01	655	0.76	8.69	<0.010	532
MW-11SR	04/21/15	-19	0.878	0	6.88	8.68	<4.0	0.501	15	<0.004	<0.05	467	34	14	<0.1	13.8	0.32	<0.01	542	<0.5	5.69	<0.010	436

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
DGC-2D	05/06/92	33	250	3.2	8.33		<3		<10		<0.04	140	3	<3	1.43	13	0.1659	<0.01	118	1.27	1	0.32	240
DGC-2D	06/12/97	-270	257	135	8.29	13.2	<4		15	<0.01	0.024	200	6.5	<1	0.96	13	<1	<0.01	160	1.7	<1	<0.002	110
DGC-2D	08/27/97	-70	249	162	8.05	12.4	<4				<0.02	140	5	32	0.71	13			54	3.8	<1	<0.002	110
DGC-2D	11/18/97	65	281	354	7.95	10.4	<4				<0.02	220	1.8	27	0.71	31			180	1.1	1.3	<0.002	140
DGC-2D	04/28/98	>-100	267	672	7.14	9.4	<4				<0.02	310	1.9	<1	0.72	13			190	1	<1	<0.002	180
DGC-2D	06/23/98	35	268	647	8.01	12	<4		10	<0.01	<0.1	110	1.6	<3	0.54	13	<1	<0.01	180	0.97	<1	<0.002	180
DGC-2D	11/25/98	265	0.258	379	7.66	11.1	<4				<0.1	140	2	39	0.36	3.8			190	0.85	1	<0.002	160
DGC-2D	02/17/99	275	2620	645	8.06	8.7	14				<0.1	130	3.2	6.7	0.65	12			66	0.73	<1	<0.002	180
DGC-2D	03/30/99	54	300	42.2	8.08	9.5	<3				<0.050	171	2.55	<10.0	0.595	23			156	<1.00	<1.0	<0.001	110
DGC-2D	06/29/99	-185	480	45.5	8.97	11.5	<3				0.227	93.5	27.5	<10.0	0.162	11			154	<1.00	1.8	0.01	108
DGC-2D	09/30/99	-151	625	40	8.6	10.8	<3		55	<0.010	<0.050	28.6	49.2	<10.0	0.582	14	0.067	<0.010	133	<1.00	2.7	0.019	64
DGC-2D	12/29/99	-190	290	27.5	7.15	9.2	<3				<.05	51.2	42.4	<10	0.534	15			130	<1	2.5	0.0073	60.1
DGC-2D	03/30/00	-175	300	35	8.25	8.3	<3				0.53	30.8	40.8	<10	<0.1	17			146	<1	1.8	<0.004	76.6
DGC-2D	06/22/00	-176	225	11	9.04	12.3	<3				0.53	44.1	38	11.8	<0.1	13			147	<1	1.3	<0.004	70.7
DGC-2D	09/21/00	-81	650	45	7.23	11.7	8				<0.05	276	15.7	<10	2.63	9.8			286	3.58	7.5	0.0049	262
DGC-2D	12/06/00	-80	872	36	7.55	8.6	7		300	<0.01	<0.05	409	22.5	10.3	5.29	28	0.086	<0.01	463	7.18	8.5	<0.004	358
DGC-2D	03/22/01	-69.6	970	26.1	7.3	9.1	5		500	<0.01	<0.05	398	<1	22.1	4.48	9.5	0.085	<0.01	427	7.21	3.8	0.0067	314
DGC-2D	06/05/01	48	420	13.3	8.1	12	<3				<0.1	313	10.3	10.9	3.81	10.5			298	6.22	3.2	<0.004	253
DGC-2D	09/25/01	40	310	16.8	8.15	55	<3				<0.1	144	13.2	<10	1.34	12.3			182	<1	2.2	0.0128	147
DGC-2D	12/4/01	47	305	16.8	8.1	13.1	<3				<0.1	134	11.2	<10	1.5	12.6			155	1.13	1	0.0097	132
DGC-2D	09/11/02	62	810	37.9	7.85	15.1	<3		25	<0.01	<0.1	499	50.8	41.9	7.69	5.32	0.108	<0.005	605	8.49	14	<0.004	378
DGC-2D	06/24/03	24.8	540	38.6	8.06	15.2	7		20	<0.01	<0.1	422	6.78	<10	1.17	10.1	0.061	<0.005	422	3.18	4.5	<0.004	303
DGC-2D	03/31/04	-50	351	75	7.45	10.5	<4		75	<0.01	<0.1	180	4.4	<2	0.86	12	<0.5	<0.01	210	0.99	1.7	<0.002	170
DGC-2D	12/10/04	15	250	82	7.45	9	<4		800	<0.01	0.072	140	4.3	8.8	0.85	13	<0.5	<0.01	140	0.57	1.4	<0.002	130
DGC-2D	09/27/05	195	303	26	7.6	11.1	<4		32	<0.01	0.13	170	4.2	<5	0.65	13	<0.5	<0.01	180	0.52	<1	<0.002	130
DGC-2D	06/27/06	280	273	18	7.84	12.4	<4		15	<0.01	0.08	120	4.8	140	0.29	13	<0.5	<0.01	180	0.35	<1	<0.002	120
DGC-2D	09/25/07	250	257	0	7.86	12.4	<4		10	<0.01	<0.1	150	3.7	<5	0.26	13	<0.5	0.019	170	0.74	<1	<0.003	130
DGC-2D	12/16/08	59	198	24	8.17	8	<4		<5	<0.01	<0.1	140	3.8	<5	0.39	14	<0.5	<0.01	150	0.42	<1	<0.003	110
DGC-2D	06/09/10	-10.4	3000	8.37	7.46	11.5	<24		2	<0.004	<0.5	220	1	36	0.43	11.9	0.1	<0.005	224	0.89	<1	<0.010	166
DGC-2D	06/14/11	128.7	270	65	8.45	15.3	<12		2	<0.004	<0.05	120	<2	<5	0.41	13.1	<0.1	<0.005	168	0.56	1.2	<0.010	105
DGC-2D	09/20/12	159	230	19	7.76	16.5	<24	<80	<2	<0.004	<0.05	130	<2	<5	0.34	12.6	<0.10	<0.005	142	<0.5	<3.0	<0.010	106
DGC-2D	11/26/13	214	0.211	11.6	8.52	3.8	<6.0	<1.0	<5	<0.004	<0.05	128	<1.0	5	0.29	13.4	0.12	<0.01	151	<0.5	<1.1	<0.010	111
DGC-2D	04/21/15	-61	0.44	0	7.39	9.27	<4.0	0.149	<5	<0.004	<0.05	216	<2	<5	1.25	<10.0	0.066	<0.01	245	1.37	1.89	<0.010	212

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
DGC-3D	05/06/92	157	260	12.3	7.39		6		10		<0.04	204	<1	22	0.71	4	0.1188	0.01	172	0.94	4.6	0.34	234
DGC-3D	06/12/97	75	429	340	7.99	11.9	4.3		20	<0.01	<0.02	260	3.7	4.3	0.72	<5	<1	<0.01	230	1.8	2.3	<0.002	210
DGC-3D	08/27/97	125	372	>999	7.53	11.1	<4				<0.02	255	3.5	25	1.5	11	140	6.4	3.9	<0.002	3000		
DGC-3D	11/18/97	75	319	60	7.5	8.8	12				<0.02	180	1.8	25	0.69	<5			190	1.2	1.8	<0.002	190
DGC-3D	04/28/98	35	312	64	7.05	9.7	6				<0.02	200	<1	<1	0.53	6.5			210	0.86	2.1	<0.002	170
DGC-3D	06/23/98	60	310	143	7.82	11.5	<4		3	<0.01	<0.1	170	1.3	<3	0.41	3	<1	<0.01	190	0.91	2.3	<0.002	680
DGC-3D	11/25/98	105	0.291	102	7.17	9.1	9.6				<0.1	230	<1	65	0.46	4.9			180	1	1.8	<0.002	230
DGC-3D	02/17/99	Location Not Sampled																	Location Not Sampled				
DGC-3D	03/30/99	117	300	14.2	7.9	9.1	3				<0.050	191	<1.00	<10.0	0.691	12			169	<1.00	2	<0.001	111
DGC-3D	06/29/99	-179	310	28.1	7.74	12.4	<3				<0.050	171	1.11	12	0.705	6			170	<1.00	2.4	0.007	121
DGC-3D	09/30/99	-12	325	13	7.8	11.2	<3		20	<0.010	<0.050	170	<1.00	<10.0	0.638	<5.0	0.104	<0.010	171	<1.00	1.7	<0.001	108
DGC-3D	12/29/99	-66	390	11.8	7.09	7.8	<3				<.05	212	<1	<10	0.563	<5			168	2.07	2.8	<.005	118
DGC-3D	03/30/00	-71	300	11	7.56	9	<3				<0.05	168	<1	<10	0.678	<5			170	<1	1.8	<0.004	119
DGC-3D	06/22/00	-173	275	12	7.89	13.7	<3				<0.05	159	<1	23.9	0.643	<5			179	<1	2.5	<0.004	120
DGC-3D	09/21/00	-29	340	20	8.13	12.1	<3				0.252	158	<1	<10	0.719	<5			155	<1	1.7	<0.004	114
DGC-3D	12/06/00	-52	307	21	8.09	8.1	<3		15	<0.01	<0.05	151	<1	<10	0.566	<5	0.096	<0.01	169	1.34	1.5	<0.004	112
DGC-3D	03/22/01	-95	375	12.6	7.53	7	<3		25	<0.01	<0.05	84.5	<1	<10	0.562	<5	0.096	<0.01	182	1.07	1.9	0.0053	127
DGC-3D	06/05/01	-53	301	37	7.44	9.7	<3				0.18	25.4	1.07	<10	0.591	<5			172	1.01	2	<0.004	134
DGC-3D	09/25/01	44	306	18.9	8.1	13.5	<3				<0.1	153	<1	<10	<0.1	<5			167	1.01	1.5	<0.004	126
DGC-3D	12/04/01	130	270	18.2	7.7	10	<3				<0.1	151	<1	<10	0.71	<5			143	<1	1.1	0.0063	117
DGC-3D	09/11/02	144.1	247	120	7.45	14.1	<3		10	<0.01	0.195	149	<1	<10	0.419	<5	0.097	<0.005	177	<1	1.1	<0.004	115
DGC-3D	06/24/03	113	284	14	8.52	14.4	<3		<5	<0.01	0.22	155	5.94	<10	0.39	<5	0.089	<0.005	159	<1	<1	<0.004	106
DGC-3D	04/01/04	85	266	212	7.82	9.9	12		88	<0.01	0.14	150	3	32	0.49	3.7	<0.5	<0.01	170	0.78	1.8	<0.002	140
DGC-3D	12/10/04	70	257	98	7.72	8.9	<4		1500	<0.01	0.052	150	2.7	60	0.6	3.9	<0.5	<0.01	220	0.52	2	<0.002	460
DGC-3D	09/27/05	305	274	60	7.46	10.3	<4		22	<0.01	0.16	150	3	19	0.62	2.9	<0.5	<0.01	170	0.51	1.2	<0.002	200
DGC-3D	06/27/06	260	269	5	7.6	12.1	<4		15	<0.01	<0.02	130	2.6	110	0.39	3.6	<0.5	<0.01	210	0.69	1.4	<0.002	900
DGC-3D	09/25/07	290	239	51	8.39	11.5	5		400	<0.01	<0.1	150	3.7	26	0.29	4.2	<0.5	<0.01	180	0.77	1.6	<0.003	450
DGC-3D	12/16/08	150	205	61	8.16	8.7	<4		<5	<0.01	<0.1	180	2.9	15	0.63	4.2	<0.5	<0.01	160	1.5	1.3	<0.003	210
DGC-3D	06/10/10	220.3	3000	5.45	7.82	13.5	<4		5	<0.004	<0.5	619	<1	36	0.15	<5	0.1	<0.005	168	<0.5	1.2	<0.010	106
DGC-3D	06/14/11	163.9	220	16.69	8.27	11.6	<4		10	<0.004	<0.05	187	<2	21	0.39	<5	<0.1	<0.005	173	1	1.9	<0.010	254
DGC-3D	09/20/12	143	238	93	7.66	15.3	<4	<80	2	<0.004	<0.05	140	<2	10	0.46	5.61	<0.1	<0.005	165	0.5	<3.0	<0.010	118
DGC-3D	11/26/13	251	0.217	132	8.41	3.8	6.9	<1.0	<5	<0.004	0.06	144	<1.0	5	0.59	5.85	0.14	<0.01	300	0.81	1.7	<0.010	220
DGC-3D	04/22/15	76	0.264	0	8.06	9.75	<4.0	<0.10	<5	<0.004	<0.05	148	<2	<5	0.55	<10	0.086	<0.01	140	0.76	1.68	<0.010	203

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) mS/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Bromide mg/L	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/lCaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/lCaCO3
Class GA Standard or Guidance Value					6.5-8.5			2	15	0.05	10		250		2	250	1	0.2	500			0.001	
DGC-6D	05/06/92	163	300	360	7.39		6		40		<0.04	166	<1	36	0.22	19	<0.100	<0.01	179	<0.05	2.7	0.1	228
DGC-6D	06/12/97	-30	299	268	8.05	12.6	<4		10	<0.01	<0.02	160	1.9	2.2	<0.03	<5	<1	<0.01	180	0.33	<1	<0.002	260
DGC-6D	08/27/97	485	280	>999	7.81	15.4	<4				<0.02	160	5.5	1	0.067	19			120	0.9	1.1	<0.002	210
DGC-6D	11/18/97	145	310	>999	7.75	11.1	<4				<0.02	190	1.4	20	0.055	<5			200	0.32	0.97	<0.002	220
DGC-6D	04/28/98	30	295	690	7.43	9.6	<4				<0.02	160	<1	<1	0.063	11			180	0.52	<1	<0.002	250
DGC-6D	06/23/98	-20	290	428	7.45	15.2	<4		20	<0.01	<0.1	130	1.5	<3	<0.03	28	<1	<0.01	180	0.28	<1	<0.002	330
DGC-6D	11/25/98	315	0.292	>999	7.03	11.1	<4				<0.1	80	<1	21	<0.03	8.3			150	0.42	<1	<0.002	240
DGC-6D	02/17/99	300	299	98	7.55	8.7	4.1				7.3	160	1.8	22	0.065	14			56	0.31	1.4	<0.002	160
DGC-6D	03/30/99	98	300	122	7.77	6.5	<3				<0.050	184	<1.00	<10.0	0.156	17			173	<1.00	<1.0	0.019	180
DGC-6D	06/29/99	-95	325	79	8.33	13.5	<3				<0.050	173	<1.00	<10.0	0.139	12			174	1.71	<1.0	0.017	143
DGC-6D	09/30/99	25	390	100	7.14	13.8	<3		10	<0.010	<0.050	150	1.41	<10.0	0.136	14	<0.048	<0.010	186	<1.00	<1	0.005	173
DGC-6D	12/29/99	-98	440	39.2	7.32	7.7	<3				<0.05	189	<1	<10	<1	19			153	<1	<1	<0.005	145
DGC-6D	03/30/00	-100	300	50	7.87	7.4	<3				<0.05	144	1.14	<10	<0.1	14			182	<1	<1	<0.004	152
DGC-6D	06/22/00	-171	290	14	8.15	14.8	<3				<0.05	138	<1	<10	0.135	14			166	<1	<1	<0.004	130
DGC-6D	09/21/00	-63	413	18	8.06	15.3	<3				<0.05	137	<1	<10	<0.1	17			155	<1	4.2	0.0066	143
DGC-6D	12/06/00	-87	298	22.2	8.27	9.8	<3		75	<0.01	0.136	132	<1	<10	<0.1	16	<0.048	<0.01	140	<1	<1	<0.004	151
DGC-6D	03/22/01	7.2	955	27.5	7.49	7.1	<3		100	<0.01	0.173	138	<1	<10	<0.1	14	0.072	<0.01	125	<1	1.3	<0.004	481
DGC-6D	06/05/01	-27.8	1290	56	8.3	11.3	<3				<0.1	126	<1	<10	0.239	14.4			182	2.69	1.6	0.0216	194
DGC-6D	09/25/01	27.3	497	27.3	7.55	5.4	<3				<0.1	143	1.03	<10	0.188	14			185	1.35	1.3	<0.004	576
DGC-6D	12/04/01	110	407	66	7.77	12.1	<3				<0.1	124	<1	<10	0.1	14.5			152	<1	<1	<0.004	408
DGC-6D	09/11/02	85	405	17.6	7.85	13.9	<3		10	<0.01	<0.1	131	1.7	<10	<0.1	12.9	<0.048	<0.005	168	1.76	<1	0.0053	191
DGC-6D	06/24/03	14.5	415	27.3	7.95	15	<3		<5	<0.01	0.11	144	<1	<10	0.185	13.2	0.065	<0.005	158	<1	<1	<0.004	148
DGC-6D	03/31/04	75	262	614	7.66	9.7	<4		88	<0.01	<0.1	140	3.2	61	0.13	14	<0.5	<0.01	250	0.26	<1	<0.002	630
DGC-6D	12/10/04	65	252	124	7.54	9.5	<4		450	<0.01	0.067	140	2.9	18	0.11	14	<0.5	<0.01	64	0.17	<1	<0.002	160
DGC-6D	09/27/05	275	284	391	7.25	15	<4		55	<0.01	0.16	130	3.2	<5	0.067	13	<0.5	<0.01	190	0.19	<1	<0.002	210
DGC-6D	06/27/06	205	310	183	7.32	14.5	14		20	<0.01	<0.02	120	2.8	210	0.11	13	<0.5	<0.01	180	0.16	<1	<0.002	210
DGC-6D	09/25/07	170	280	20	8.32	14.4	<4		40	<0.01	<0.1	160	2.3	20	<0.03	14	<0.5	<0.01	210	0.3	1.2	<0.003	180
DGC-6D	12/16/08	85	234	165	7.93	7.6	<4		<5	<0.01	<0.1	250	3.2	5.9	0.11	14	<0.5	<0.01	190	0.25	1.2	<0.003	180
DGC-6D	06/09/10	172	2000	46.43	7.82	14.6	<4		5	<0.004	<0.5	110	1.5	36	0.21	13.6	0.07	<0.005	180	<0.5	<1	<0.010	156
DGC-6D	06/14/11	72.3	310	74	8.32	16.4	<4		<2	<0.004	<0.05	113	<2	<5	0.23	13.6	<0.1	<0.005	167	<0.5	<1	<0.010	153
DGC-6D	09/20/12	18	273	52	7.52	18.6	<4	<80	<2	<0.004	<0.05	130	<2	10	0.32	13.2	<0.1	<0.005	192	<0.5	<3.0	<0.010	138
DGC-6D	11/26/13	-11	0.245	43.1	8.48	4.4	<4.0	<1.0	<5	<0.004	0.06	140	<1.0	16	0.46	14.8	0.071	<0.01	182	<0.5	<1.1	<0.010	162
DGC-6D	04/21/15	76	0.264	0	8.06	9.75	<4.0	<0.10	<5	<0.004	0.05	136	<2	<5	0.15	12.1	0.034	<0.01	170	0.7	<1.00	<0.010	172

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	1	0.003	0.005	0.05	0.2	0.086	0.036	7.5	0.025	35	0.3	0.0007	0.1	0.01	0.05	20	0.0005	2		
MW-2SR	06/12/97	4	<0.06	<0.01	0.33	<0.01	<0.01	110	0.086	0.036	7.5	<0.01	66	0.53	0.0003	0.2	3.8	<0.05	<0.01	91	<0.03		0.12
MW-2SR	08/27/97										No Sample Taken - Well Obstruction												
MW-2SR	11/18/97						<0.01	90			0.6	<0.01	56	0.19			1.6			140			
MW-2SR	04/28/98						<0.01	94			1.1	<0.01	58	0.16			1.1			140			
MW-2SR	06/23/98	0.14	<0.06	<0.01	0.25	<0.01	<0.01	97	0.023	<0.02	0.85	<0.01	66	0.22	<0.0002	0.051	1.5	<0.05	<0.01	130	<0.03		0.14
MW-2SR	11/25/98						<0.01	91			0.83	0.029	52	0.13			<1			110			
MW-2SR	02/17/99						<0.01	92			0.88	0.1	57	0.2			1.1			130			
MW-2SR	03/30/99						<0.005	98.1			1.94	<0.001	58.6	0.181			0.886			109			
MW-2SR	06/29/99						<0.005	104			2.83	<0.001	63.3	0.149			1.25			96.3			
MW-2SR	09/30/99	0.081	0.055	0.018	0.248	<0.002	<0.005	93.3	0.01	<0.017	2.7	<0.001	54.3	0.08	<0.0002	<0.012	1.67	<0.002	<0.010	62.2	<0.001		0.024
MW-2SR	12/29/99						0.012	107			6.76	0.001	63.6	0.198			1.16			120			
MW-2SR	03/30/00						<0.0050	109			6.93	0.007	66.3	0.208			1.09			124			
MW-2SR	06/22/00						<0.005	96.6			1.23	0.003	59.7	0.161			0.946			99.9			
MW-2SR	09/21/00						<0.005	99.2			0.685	0.009	59.8	0.157			1.56			88.3			
MW-2SR	12/06/00	<0.075	<0.050	0.013	0.306	<0.002	<0.005	101	<0.10	<0.017	1.79	0.001	61.2	0.195	<0.0002	<0.012	1.27	<0.002	<0.010	124	<0.001		<0.020
MW-2SR	03/22/01	<0.075	<0.050	0.013	0.285	<0.002	<0.005	99.8	0.015	<0.017	3.22	0.003	59.7	0.175	<0.0002	<0.012	0.95	<0.002	<0.010	102	<0.001		<0.020
MW-2SR	06/05/01						<0.005	98.4			1.04	0.002	61.1	0.169			1.33			98.6			
MW-2SR	09/25/01						<0.005	95.8			1.98	0.006	58.8	0.14			0.703			81.3			
MW-2SR	12/04/01						<0.005	105			8.84	0.002	62.9	0.201			1.34			121			
MW-2SR	09/11/02	0.333	<0.050	0.019	0.264	<0.002	<0.005	95.6	0.061	<0.017	3.9	0.001	57	0.136	<0.0002	0.014	1.37	<0.001	<0.010	78.4	<0.001	<0.010	0.02
MW-2SR	06/24/03	<0.075	<0.050	0.005	0.239	<0.002	0.004	94.5	<0.002	<0.017	0.578	0.001	57.4	0.129	<0.0002	<0.012	0.857	<0.001	<0.001	80.6	<0.001	<0.010	<0.020
MW-2SR	03/31/04	5	<0.01	0.055	0.34	<0.01	<0.01	110	0.042	0.029	14	0.016	68	0.43	<0.0002	0.06	3.4	<0.01	<0.01	130	<0.01	0.016	0.087
MW-2SR	12/10/04	<0.1	<0.01	0.014	0.26	<0.01	<0.01	94	0.01	<0.01	2.8	<0.01	58	0.12	<0.0002	0.041	1.6	<0.01	<0.01	96	<0.01	<0.01	0.08
MW-2SR	09/27/05	2	<0.01	0.024	0.3	<0.01	<0.01	100	0.094	0.063	7.2	<0.01	66	0.22	<0.0002	0.063	2.9	<0.01	<0.01	120	<0.01	<0.01	0.12
MW-2SR	06/27/06	0.48	<0.01	<0.01	0.26	<0.01	<0.01	94	0.033	0.013	2.5	0.016	59	0.12	<0.0002	0.072	1.7	0.049	<0.01	90	<0.01	<0.01	0.11
MW-2SR	09/25/07	1.7	<0.01	0.026	<0.2	<0.01	<0.01	100	0.052	0.02	4.9	<0.01	63	0.18	<0.0002	0.086	2.4	<0.01	<0.01	87	<0.01	<0.01	0.09
MW-2SR	12/16/08	0.56	<0.01	<0.01	0.31	<0.01	<0.01	104	0.021	<0.01	2.3	0.014	60	0.11	<0.0002	0.068	1.8	<0.01	<0.01	87	<0.01	<0.01	0.12
MW-2SR	06/09/10	<0.20	<0.02	<0.02	0.26	<0.02	<0.02	94	<0.02	<0.02	0.92	0.05	58	0.09	<0.001	<0.02	0.94	<0.02	<0.02	75	<0.02	<0.02	<0.02
MW-2SR	06/14/11	0.16	<0.02	<0.02	0.24	<0.02	<0.02	96	<0.02	<0.02	2.6	0.04	65	0.09	<0.001	0.03	1.3	<0.02	<0.02	71	<0.01	<0.02	0.04
MW-2SR	09/20/12	0.19	<0.02	<0.02	0.27	<0.02	<0.02	87	<0.02	<0.02	1.1	<0.02	59	0.22	<0.0008	0.02	1.4	<0.02	<0.02	75	<0.01	<0.02	0.03
MW-2SR	11/26/13	0.22	<0.02	<0.02	0.25	<0.02	<0.02	87	<0.02	<0.02	0.83	<0.02	55	0.12	<0.0008	0.048	1	<0.02	<0.02	68	<0.01	<0.02	<0.048
MW-2SR	04/21/15	0.31	<0.012	<0.02	0.24	<0.02	<0.02	87.7	<0.02	<0.02	1.01	<0.02	56.3	0.12	<0.0002	<0.02	16.2	<0.02	<0.02	71.6	<0.010	<0.02	0.028

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
DGC-3S	05/06/92	1.57	<0.0357	0.0071	0.175	<0.0013	<0.0038	77.3	0.0093	<0.0039	1.86	<0.003	34.9	0.0657	<0.0002	<0.0306	1.59	<0.005	<0.0099	27.9	<0.005		0.0068
DGC-3S	12/15/92	0.251	<0.039	<0.025	0.1	<0.001	<0.003	40.7	<0.005	0.0079	1.65	0.004	17.2	0.178		<0.019	0.767		<0.004	21.5		<0.005	
DGC-3S	06/12/97	46	0.14	<0.01	0.45	<0.01	<0.01	310	0.056	0.1	80	0.047	120	2.2	<0.0002	0.076	16	<0.05	<0.01	24	<0.03		0.32
DGC-3S	08/27/97						<0.01	480			98	0.07	180	3.6			11			21			
DGC-3S	11/18/97						0.014	140			15	<0.01	48	0.54			3.4			11			
DGC-3S	04/28/98					<0.01	<0.01	160			32	0.017	69	1.3			6.1			29			
DGC-3S	06/23/98	15	<0.06	0.089	<0.2	<0.01	<0.01	120	0.027	0.022	29	0.023	58	1.1	<0.0002	0.026	7	<0.05	<0.01	26	<0.03		0.1
DGC-3S	11/25/98					<0.01	<0.01	120			12	0.042	42	0.32			<1			20			
DGC-3S	02/17/99					<0.01	<0.01	87			5.2	<0.01	26	0.27			1.3			8			
DGC-3S	03/30/99					<0.005	<0.005	79			0.236	0.002	21.5	0.191			<0.500			8.52			
DGC-3S	06/29/99					<0.005	<0.005	25.1			2.79	0.002	12.6	0.138			1.54			21.4			
DGC-3S	09/30/99	5.51	<0.050	0.047	0.102	<0.002	<0.005	100	0.013	<0.017	8.6	0.005	20.6	0.365	<0.0002	<0.012	2.39	<0.002	<0.010	20.1	<0.001		0.028
DGC-3S	12/29/99						0.008	100			1.61	0.001	26.5	0.061			0.774			6.69			
DGC-3S	03/30/00						<0.0050	79.6			0.8	0.01	23.1	0.212			0.564			9.85			
DGC-3S	06/22/00						<0.005	43.2			4.64	0.007	19.6	0.27			1.4			20.2			
DGC-3S	09/21/00						0.006	53			2.67	0.008	19.2	0.128			1.15			21			
DGC-3S	12/06/00	0.502	<0.050	0.052	0.147	<0.002	<0.005	90.8	<0.010	<0.017	2.92	0.001	24.1	0.212	<0.002	<0.012	<0.500	<0.002	<0.010	9.46	<0.001		0.37
DGC-3S	03/22/01	7.97	<0.050	0.028	0.185	<0.002	<0.005	113	0.012	0.021	13.3	0.009	39.1	0.959	<0.0002	0.019	2.62	<0.002	<0.010	7.82	<0.001		0.052
DGC-3S	06/05/01						<0.005	42.4			6.57	0.004	20.1	0.314			1.92			20.8			
DGC-3S	09/25/01						<0.005	57.9			16.5	0.014	27.9	0.522			2.47			22.1			
DGC-3S	12/04/01						<0.005	97.8			4.18	0.004	26.8	0.228			0.9			8.78			
DGC-3S	09/11/02	2.35	<0.050	0.053	0.099	<0.002	<0.005	52.7	0.004	<0.017	4.88	0.003	18.6	0.354	<0.0002	<0.012	1.26	<0.001	<0.010	16.9	<0.001	<0.010	0.029
DGC-3S	06/24/03	2.75	<0.050	0.028	0.074	<0.002	<0.001	40.8	0.003	<0.017	4.34	0.006	16.3	0.211	<0.0002	<0.012	1.27	<0.001	<0.001	15.9	<0.001	<0.010	<0.020
DGC-3S	03/31/04	7.4	<0.01	0.027	<0.2	<0.01	<0.01	88	0.012	0.017	13	0.014	29	0.46	<0.0002	0.013	2.4	0.012	<0.01	8.4	<0.01	0.016	0.13
DGC-3S	12/10/04	0.63	<0.01	0.026	0.19	<0.01	<0.01	110	<0.01	0.011	2.1	<0.01	31	0.24	<0.0002	<0.01	<1	<0.01	<0.01	12	<0.01	<0.01	0.12
DGC-3S	09/27/05	25	<0.01	0.083	0.32	<0.01	<0.01	130	0.038	0.046	43	<0.01	60	1.1	<0.0002	0.036	7.6	<0.01	<0.01	24	<0.01	0.044	0.14
DGC-3S	06/27/06	14	<0.01	0.01	0.23	<0.01	<0.01	110	0.019	0.026	25	0.02	56	0.79	<0.0002	0.025	4.5	0.072	<0.01	22	<0.01	0.022	0.1
DGC-3S	09/25/07	58	<0.01	0.12	0.64	<0.01	<0.01	240	0.079	0.089	110	0.013	120	2.6	0.00021	0.093	11	<0.01	<0.01	23	<0.01	0.047	0.33
DGC-3S	12/16/08	8.8	<0.01	<0.01	0.24	<0.01	<0.01	140	0.012	0.01	13	0.014	43	0.47	<0.0002	0.021	3.1	0.027	<0.01	7.7	<0.01	0.014	0.11
DGC-3S	06/10/10	<0.20	<0.02	<0.02	0.11	<0.02	<0.02	58	<0.02	<0.02	0.18	0.04	15	0.05	<0.001	<0.02	<0.050	<0.02	<0.02	16	<0.02	<0.02	<0.02
DGC-3S	06/14/11	1.9	<0.02	<0.02	0.09	<0.02	<0.02	42	<0.02	<0.02	2	0.03	16	0.08	<0.001	<0.02	1.4	<0.02	<0.02	18	<0.01	<0.02	<0.02
DGC-3S	09/20/12	3.1	<0.02	<0.02	0.28	<0.02	<0.02	146	<0.02	0.03	8	0.02	41	1	<0.0008	<0.02	1.7	<0.02	<0.02	22	<0.01	<0.02	0.04
DGC-3S	11/26/13	1.3	<0.02	<0.02	0.17	<0.02	<0.02	116	<0.02	<0.02	2.1	<0.02	29	0.091	<0.0008	<0.02	<1.0	<0.02	<0.02	6.9	<0.01	<0.02	<0.02
DGC-3S	04/21/15	0.95	<0.012	<0.02	0.13	<0.02	<0.02	102	<0.02	<0.02	1.93	<0.02	23.8	0.17	<0.0002	<0.02	17	<0.02	<0.02	10.4	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l	
Units																								
Class GA Standard or Guidance Value		0.003	0.025	1	0.003	0.005	0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1	0.01	0.05	20	0.0005	2					
MW-4SR	05/05/92	0.912	<0.0357	0.007	0.732	<0.0013	<0.0038	137	0.0068	<0.0039	12.7	<0.015	50.3	0.838	<0.002	<0.0306	56.5	<0.005	<0.0099	63.9	<0.005			0.0198
MW-4SR	12/15/92	0.172	<0.039	0.007	0.672	<0.001	<0.003	125	<0.005	<0.004	5.94	0.0098	45.7	1.2		0.0586	59.9		<0.004	63.9			0.0052	
MW-4SR	06/12/97	2.7	<0.06	<0.01	0.54	<0.01	<0.01	180	0.015	<0.02	45	0.017	47	6.1	<0.0002	0.075	67	<0.05	<0.01	61	<0.03		0.25	
MW-4SR	08/27/97						<0.01	190			45	0.022	48	5.1			63			84				
MW-4SR	11/18/97						<0.01	170			42	0.025	44	5			72			120				
MW-4SR	04/28/98						<0.01	200			60	0.047	60	6.4			74			150				
MW-4SR	06/23/98	7.1	<0.06	0.039	0.61	<0.01	<0.01	190	0.027	0.022	50	0.028	57	4.7	0.00037	0.07	84	<0.05	<0.01	150	<0.03		0.18	
MW-4SR	11/25/98						<0.01	190			82	0.095	61	3.2			20			140				
MW-4SR	02/17/99						<0.01	160			57	0.016	49	2.9			64			100				
MW-4SR	03/30/99						<0.005	166			25.8	0.006	49.2	2.79			58.6			103				
MW-4SR	06/29/99						<0.005	156			36	0.003	50.9	0.987			70.9			107				
MW-4SR	09/30/99	0.743	0.054	0.033	0.772	<0.002	<0.005	152	<0.010	<0.017	38.3	0.01	46.1	1.11	<0.0002	0.025	69.3	<0.002	<0.010	102	<0.001		0.027	
MW-4SR	12/29/99						<0.005	163			51.9	0.043	51	1.91			65.3			98.9				
MW-4SR	03/30/00						<0.0050	167			57.1	<0.001	53.6	2.23			61.1			94.1				
MW-4SR	06/22/00						<0.005	142			42	0.003	47.5	1.59			59.9			90				
MW-4SR	09/21/00						<0.005	149			41.1	<0.001	50.7	1.19			71.8			104				
MW-4SR	12/06/00	0.907	<0.050	0.02	0.659	<0.002	0.005	148	<0.010	<0.017	30.8	0.007	50	1.21	<0.0002	0.02	68.5	<0.002	<0.010	102	<0.001		0.024	
MW-4SR	03/22/01	1.93	<0.050	0.015	0.542	<0.002	<0.005	155	<0.010	<0.017	46.4	0.007	52.7	2.02	<0.0002	0.027	58	<0.002	<0.010	87.8	<0.001		0.021	
MW-4SR	06/05/01						<0.005	160			43.4	0.004	56.1	1.82			64			99				
MW-4SR	09/25/01						<0.005	144			32.5	0.013	54.5	0.787			82			124				
MW-4SR	12/04/01						<0.005	141			35.9	0.005	49.1	1.66			67.5			104				
MW-4SR	09/11/02	5.55	<0.050	0.04	0.966	<0.002	<0.005	137	0.008	0.0108	27.2	0.006	53.2	0.636	<0.0002	0.036	81.1	0.002	<0.010	128	<0.001	0.015	0.052	
MW-4SR	06/24/03	0.415	<0.050	0.024	0.472	<0.002	<0.001	121	0.003	<0.017	30.7	0.002	42.3	1.36	<0.0002	<0.012	49.2	0.001	<0.001	69.8	<0.001	<0.010	<0.020	
MW-4SR	03/31/04	2	<0.01	0.039	0.52	<0.01	<0.01	130	<0.01	<0.01	26	0.017	49	2.1	<0.0002	<0.01	66	<0.01	<0.01	120	<0.01	<0.01	0.074	
MW-4SR	12/10/04	0.76	<0.01	0.032	0.58	<0.01	<0.01	130	<0.01	<0.01	21	<0.01	46	1.8	<0.0002	0.02	81	<0.01	<0.01	120	<0.01	<0.01	0.048	
MW-4SR	09/27/05	420	<0.1	<0.1	4.3	<0.1	<0.1	3600	0.82	0.99	990	0.32	1200	57	<0.015	1.1	160	<0.1	<0.1	200	<0.1	0.7	3.2	
MW-4SR	06/27/06	42	<0.01	0.013	0.89	<0.01	<0.01	590	0.072	0.092	110	0.063	160	8.6	0.00024	0.12	90	0.078	<0.01	140	<0.01	0.062	0.29	
MW-4SR	09/25/07																							
MW-4SR	12/16/08	6.5	<0.01	<0.01	0.72	<0.01	<0.01	180	0.018	0.011	35	0.063	56	2	<0.0002	0.054	77	0.029	<0.01	140	<0.01	0.011	0.23	
MW-4SR	06/09/10	0.48	<0.02	<0.02	0.71	<0.02	<0.02	133	<0.02	<0.02	19	0.07	51	1.4	<0.001	0.03	66	<0.02	0.02	131	<0.02	<0.02	<0.02	
MW-4SR	06/14/11	0.71	<0.02	<0.02	0.71	<0.02	<0.02	145	<0.02	<0.02	17	0.05	50	1.2	<0.001	0.03	69	<0.02	<0.02	143	<0.01	<0.02	<0.02	
MW-4SR	09/20/12	5.6	<0.02	<0.02	1.2	<0.02	<0.02	296	<0.02	0.02	27	0.03	89	3.3	<0.0008	0.06	98	0.02	<0.02	179	<0.01	0.03	0.07	
MW-4SR	11/26/13	4.3	<0.04	<0.02	0.61	<0.02	<0.02	156	<0.02	<0.02	22	0.027	52	1.6	<0.0008	0.041	71	<0.02	<0.02	145	<0.01	0.022	0.055	
MW-4SR	04/21/15	3.11	<0.012	<0.02	0.63	<0.02	<0.02	140	<0.02	<0.02	18.3	<0.02	51.5	1.65	<0.0002	0.026	76.4	<0.02	<0.02	135	<0.010	<0.02	0.022	

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
DGC-5	05/06/92	10.9	0.0647	0.11	5.81	<0.0013	<0.0038	210	0.0194	0.0423	27.2	0.0271	121	1.03	<0.0002	0.0991	63.3	<0.010	<0.0099	361	<0.050		0.0817
DGC-5	12/15/92	0.215	<0.039	0.117	8.09	<0.001	<0.003	164	<0.005	0.0068	7.58	0.0044	115	0.732			91.2	<0.004		459			0.0097
DGC-5	06/12/97	24	0.083	0.045	1.8	<0.01	<0.01	470	0.032	0.068	73	0.033	150	6.3	<0.0002	0.11	39	<0.05	<0.01	61	<0.03		0.22
DGC-5	08/27/97					<0.01	<0.01	490			70	0.041	180	3.6			62			110			
DGC-5	11/18/97					<0.01	<0.01	700			130	0.07	250	8.4			49			82			
DGC-5	04/28/98					<0.01	<0.01	540			98	0.047	160	6.7			18			35			
DGC-5	06/23/98	210	<0.06	0.77	3.9	0.01	0.016	840	0.38	0.64	330	0.26	980	23	<0.0002	0.64	140	<0.05	<0.01	210	<0.03		1.4
DGC-5	11/25/98					<0.01	<0.01	990			230	0.28	310	7			23			210			
DGC-5	02/17/99					<0.01	<0.01	610			150	0.037	200	6.7			32			60			
DGC-5	03/30/99					0.006		211			23	0.006	55.6	3.05			14.5			41.1			
DGC-5	06/29/99					<0.005	<0.005	197			29	0.004	92	1.28			90.9			324			
DGC-5	09/30/99	2.07	<0.050	0.37	8.15	<0.002	<0.005	184	<0.010	0.029	16.7	0.001	93.7	0.609	<0.0002	0.083	136	<0.002	<0.010	457	<0.001		0.036
DGC-5	12/29/99					<0.005	<0.005	235			51.9	0.006	61.1	4.18			16.9			40.5			
DGC-5	03/30/00					0.008		145			53.1	0.002	28.8	3.68			4.28			7.56			
DGC-5	06/22/00					<0.005	<0.005	115			38.7	0.003	19.5	3.1			3.1			5.92			
DGC-5	09/21/00					<0.005	<0.005	178			48.6	0.003	39.3	3.39			9.96			24.6			
DGC-5	12/05/00					0.008	0.008	2040	0.168	0.565	441	0.5	657	20.9	0.0003	0.463	45.9	<0.002	<0.010	69.7	<0.001		0.829
DGC-5	03/22/01	6.86	<0.050	0.038	0.874	<0.002	<0.005	538	<0.010	0.05	89.5	0.012	91.9	6.52	0.0003	0.06	4.46	<0.002	<0.010	4.26	<0.001		0.081
DGC-5	06/05/01					0.006		845			155	0.04	251	7.77			30.1			72.2			
DGC-5	09/25/01					<0.005	<0.005	262			49.3	0.02	95	1.8			57.9			190			
DGC-5	12/04/01					<0.005	<0.005	185			50.4	0.006	45	3			13.3			35.8			
DGC-5	09/11/02	23.6	<0.050	0.201	5.16	<0.002	<0.005	313	0.027	0.085	68.2	0.025	110	2.48	<0.0002	0.113	83	0.003	<0.010	266	<0.005	0.059	0.132
DGC-5	06/24/03	3.88	<0.050	0.045	0.818	<0.002	<0.001	142	0.005	<0.017	51.5	0.004	31.4	2.43	<0.0002	0.021	6.63	<0.001	<0.001	23.7	<0.001	<0.010	<0.020
DGC-5	03/31/04	87	0.012	0.48	2.1	<0.01	0.01	2100	0.13	0.35	240	0.14	630	15	0.00025	0.26	34	<0.01	0.032	54	<0.1	0.22	0.66
DGC-5	12/10/04	1.3	<0.01	0.037	0.8	<0.01	<0.01	400	<0.01	<0.01	44	0.016	73	4.1	<0.0002	0.01	10	<0.01	<0.01	17	<0.01	0.016	0.052
DGC-5	09/27/05	270	<0.1	<0.1	6.9	<0.1	<0.1	4700	0.49	0.96	730	<0.1	1600	40	0.00086	0.89	110	<0.1	0.1	320	<0.1	0.56	2
DGC-5	06/27/06	37	<0.01	<0.01	1.7	<0.01	<0.01	670	0.057	0.15	110	0.061	200	6.7	0.00024	0.13	37	0.11	<0.01	72	<0.01	0.062	0.29
DGC-5	09/25/07	210	<0.01	0.53	6.1	<0.01	0.01	1900	0.31	0.75	500	0.089	600	19	0.0012	0.68	110	<0.01	<0.01		<0.01	0.22	1.3
DGC-5	12/16/08	97	<0.01	<0.01	2.1	<0.01	<0.01	1300	0.12	0.23	230	0.017	360	9.4	<0.0002	0.25	33	<0.01	0.012	36	<0.01	0.14	0.58
DGC-5	06/09/10	5.2	<0.02	<0.02	1.4	<0.02	<0.02	473	<0.02	<0.02	45	0.09	87	3.9	<0.001	<0.02	16	<0.02	<0.02	32	<0.02	0.03	<0.02
DGC-5	06/14/11	12	<0.02	<0.02	0.72	<0.02	<0.02	254	<0.02	0.04	46	0.07	57	0.44	<0.001	0.03	13	<0.02	<0.02	16	<0.01	0.03	0.05
DGC-5	09/20/12	10	<0.02	0.05	2.4	<0.02	<0.02	695	<0.02	0.03	42	0.03	58	4.1	<0.0008	0.08	35	<0.02	<0.02	149	<0.01	0.04	0.06
DGC-5	11/26/13	8.7	<0.02	<0.02	0.92	<0.02	<0.02	189	<0.02	0.026	44	<0.02	42	2.2	<0.0008	0.027	13	<0.02	<0.02	23	<0.01	0.029	0.058
DGC-5	04/21/15	1.45	<0.012	<0.02	0.25	<0.02	<0.02	90.5	<0.02	<0.02	5.46	<0.02	16.6	0.87	<0.0002	<0.02	18.3	<0.02	<0.02	<5.0	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.003	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
MW-6SR	05/05/92	0.863	0.0415	0.0409	0.407	<0.0013	<0.0038	172	<0.0039	<0.0039	5.6	<0.003	120	0.39	<0.0002	0.0335	1.19	<0.005	<0.0099	304	<0.005		0.0127
MW-6SR	12/15/92	0.644	0.115	0.0529	0.677	<0.001	<0.003	204	<0.005	0.0102	14.3	0.007	136	0.539		0.057	0.863		<0.004	399			<0.005
MW-6SR	06/12/97	24	0.15	0.063	1.4	<0.01	<0.01	370	0.063	0.059	94	0.048	160	1.3	<0.0002	0.12	13	<0.05	0.016	160	<0.03		0.48
MW-6SR	08/27/97						<0.01	210			26	<0.01	120	0.52			6.1			200			
MW-6SR	11/18/97						<0.01	150			13	<0.01	110	0.36			2.1			250			
MW-6SR	04/28/98						<0.01	230			37	0.016	150	0.51			5.2			400			
MW-6SR	06/23/98	3.4	<0.06	0.068	0.94	<0.01	<0.01	200	0.021	<0.02	26	0.013	140	0.33	<0.0002	0.058	5.9	<0.05	<0.01	320	<0.03		0.099
MW-6SR	11/25/98						<0.01	200			36	0.071	120	0.76			1.2			390			
MW-6SR	02/17/99						<0.01	210			42	0.01	130	0.52			3.3			350			
MW-6SR	03/30/99						<0.005	184			10.1	0.002	126	0.353			1.18			330			
MW-6SR	06/29/99						<0.005	202			26.9	0.002	134	0.093			3.23			403			
MW-6SR	09/30/99	0.562	0.06	0.085	0.762	<0.002	<0.005	170	<0.010	<0.017	17.4	<0.001	106	0.504	<0.0002	0.045	2.13	<0.002	<0.010	316	<0.001		<0.020
MW-6SR	12/29/99						0.021	164			15.2	0.002	103	0.661			0.959			296			
MW-6SR	03/30/00						<0.0050	160			26.3	0.003	87.5	0.963			0.571			199			
MW-6SR	06/22/00						<0.005	147			19.3	0.004	87.7	0.664			0.507			224			
MW-6SR	09/21/00						<0.005	160			10.4	0.004	96.3	0.817			1.22			280			
MW-6SR	12/05/00	0.811	<0.050	0.063	0.518	<0.002	<0.005	165	<0.010	<0.017	17.9	0.005	105	0.46	<0.0002	0.047	0.616	<0.002	<0.010	311	<0.001		<0.020
MW-6SR	03/22/01	2.25	<0.050	0.059	0.592	<0.002	<0.005	156	0.018	<0.017	26.5	0.004	84.7	1.1	<0.0002	0.039	1.56	<0.002	<0.010	187	<0.001		0.021
MW-6SR	06/05/01						<0.005	193			22.5	0.002	126	0.183			4.81			337			
MW-6SR	09/25/01						<0.005	202			28	0.012	132	0.164			6.19			356			
MW-6SR	12/04/01						<0.005	180			17.3	0.006	123	0.439			4.06			313			
MW-6SR	09/11/02	14	<0.050	0.103	1.77	<0.002	<0.005	351	0.021	0.049	49.1	0.019	169	1.34	<0.0002	0.076	9.6	0.003	<0.010	335	<0.005	0.033	0.087
MW-6SR	06/24/03	1.54	<0.050	0.04	1.17	<0.002	<0.001	150	0.004	<0.017	18.9	0.002	86.6	1.18	<0.0002	0.029	5.22	0.002	<0.001	183	<0.001	<0.010	<0.020
MW-6SR	03/31/04	48	<0.01	<0.1	1.7	<0.01	<0.01	530	0.082	0.12	110	0.061	200	3.4	<0.0002	0.21	24	<0.01	<0.01	300	<0.1	0.1	0.28
MW-6SR	12/10/04	0.32	<0.01	0.035	0.86	<0.01	<0.01	130	<0.01	<0.01	9.4	<0.01	67	0.85	<0.0002	0.029	8.6	<0.01	<0.01	190	<0.01	<0.01	0.05
MW-6SR	09/27/05	42	<0.1	0.19	2.7	<0.1	<0.1	540	<0.1	0.12	100	<0.1	250	3.1	<0.0002	0.27	30	<0.1	<0.1	360	<0.1	<0.1	0.34
MW-6SR	06/27/06	13	<0.01	0.027	1.6	<0.01	0.016	240	0.023	0.036	35	0.024	140	1.3	<0.0002	0.084	18	0.089	<0.01	230	<0.01	0.024	0.09
MW-6SR	09/25/07	110	<0.01	0.31	3.6	<0.01	<0.01	960	0.17	0.22	250	0.024	330	6	0.0002	0.7	53	<0.01	<0.01	440	<0.01	0.098	0.6
MW-6SR	12/16/08	39	<0.01	<0.01	2.2	<0.01	<0.01	360	<0.01	0.06	66	0.017	110	1.9	<0.0002	0.18	30	0.095	<0.01	200	0.037	0.053	0.21
MW-6SR	06/09/10	<0.20	<0.02	<0.02	1.9	<0.02	<0.02	118	<0.02	<0.02	6.9	0.06	90	0.24	<0.001	0.04	20	<0.02	<0.02	202	<0.02	<0.02	<0.02
MW-6SR	06/14/11	2.9	<0.02	<0.02	1.8	<0.02	<0.02	153	<0.02	<0.02	20	0.05	91	0.31	<0.001	0.04	22	<0.02	<0.02	215	<0.01	<0.02	0.03
MW-6SR	09/20/12	25	<0.02	0.06	0.31	<0.02	<0.02	457	0.04	0.05	66	0.03	144	2.5	<0.0008	0.23	33	<0.02	<0.02	302	<0.01	0.07	0.12
MW-6SR	11/26/13	6.6	<0.02	<0.02	1.5	<0.02	<0.02	122	<0.02	<0.02	15	<0.02	70	0.47	<0.0008	0.041	27	<0.02	<0.02	133	<0.01	0.026	0.052
MW-6SR	04/21/15	9.7	<0.012	0.12	1.47	<0.02	<0.02	144	<0.02	<0.02	25.8	<0.02	71.3	0.7	<0.0002	0.044	26.4	<0.02	<0.02	117	<0.010	<0.02	0.044

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	1	0.003	0.005	0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1	0.01	0.05	20	0.0005	2				
MW-7S	05/05/92	0.569	<0.0357	0.0063	0.235	<0.0013	<0.0038	149	0.0089	<0.0039	13.9	<0.003	22.2	2.17	<0.0002	<0.0306	4.96	<0.005	<0.0099	11.1	<0.005		0.0093
MW-7S	12/15/92	0.136	0.0892	0.0132	0.529	<0.001	<0.003	179	<0.005	<0.004	10.5	<0.003	28.4	1.65		0.0222	10.4		<0.004	26.6		<0.005	
MW-7S	06/12/97	1.2	0.068	<0.01	0.39	<0.01	<0.01	270	<0.01	<0.02	60	<0.01	37	4.5	<0.0002	0.028	4.5	<0.05	<0.01	16	<0.03		0.22
MW-7S	08/27/97						<0.01	240			65	0.048	76	2.2			11			42			
MW-7S	11/18/97						<0.01	210			39	<0.01	31	3			3.8			18			
MW-7S	04/28/98						<0.01	300			51	0.012	38	3.2			3.9			20			
MW-7S	06/23/98						<0.01	240	0.026	0.028	54	0.02	61	2.8	<0.0002	0.029	7.6	<0.05	<0.01	32	<0.03		0.087
MW-7S	11/25/98	8.7	<0.06	0.076	0.43	<0.01	<0.01	190			39	0.064	33	2			1.3			23			
MW-7S	02/17/99						<0.010	220			60	<0.01	36	2.7			4.9			13			
MW-7S	03/30/99						<0.005	214			38.7	<0.001	31.4	3.05			2.88			6.92			
MW-7S	06/29/99						<0.005	182			38.7	0.002	39	1.74			3.72			27.7			
MW-7S	09/30/99	0.215	<0.050	0.034	0.264	<0.002	<0.005	154	<0.010	<0.017	27.1	<0.001	23.2	2.12	<0.0002	<0.012	2.45	<0.002	<0.010	11.1	<0.001		<0.020
MW-7S	12/29/99						<0.005	170			52	<0.001	28.2	2.54			3.32			8.48			
MW-7S	03/30/00						<0.0050	183			63.9	0.001	30.7	2.89			3.19			9.1			
MW-7S	06/22/00						<0.005	181			53.5	0.003	30.2	2.74			2.93			8.77			
MW-7S	09/21/00						<0.005	166			49	0.001	30.3	2.42			3.77			14.7			
MW-7S	12/06/00	0.141	<0.050	0.051	0.431	<0.002	<0.005	168	<0.010	<0.017	62.5	0.002	28.5	2.44	<0.0002	<0.012	3.26	<0.002	<0.010	11.4	<0.001		0.027
MW-7S	03/22/01	0.812	0.052	0.021	0.376	<0.002	<0.005	178	0.033	<0.017	60.1	0.003	31.2	2.86	<0.0002	0.026	3.54	<0.002	<0.010	9.23	<0.001		<0.020
MW-7S	06/05/01						<0.005	145			42.8	0.003	26.8	1.92			2.77			9.27			
MW-7S	09/25/01						<0.005	98.9			17.4	0.011	28.6	0.764			2.76			38.5			
MW-7S	12/04/01						<0.005	140			49.6	0.003	22	2.55			3.26			8.75			
MW-7S	09/11/02	1.36	<0.050	0.024	0.323	<0.002	<0.005	102	0.003	<0.017	21.1	0.003	29.4	0.92	<0.0002	<0.012	3.12	<0.001	<0.010	29.7	<0.001	<0.010	0.029
MW-7S	06/24/03	0.438	<0.050	0.013	0.248	<0.002	<0.001	108	<0.002	<0.017	34.5	0.002	20.3	1.68	<0.002	<0.012	2.27	<0.001	<0.001	7.61	<0.001	<0.010	<0.020
MW-7S	03/31/04	0.14	<0.01	0.056	0.3	<0.01	<0.01	100	<0.01	<0.01	14	<0.01	20	2.1	<0.0002	0.016	4.1	<0.01	<0.01	8.2	<0.01	<0.01	0.056
MW-7S	12/10/04	<0.1	<0.01	0.015	0.19	<0.01	<0.01	94	<0.01	<0.01	12	<0.01	15	2.1	<0.0002	<0.01	3.3	<0.01	<0.01	4.1	<0.01	<0.01	0.021
MW-7S	09/27/05	16	<0.01	0.039	0.38	<0.01	<0.01	120	0.025	0.024	33	0.014	44	1.3	<0.0002	0.022	8.2	<0.01	<0.01	39	<0.01	0.028	0.076
MW-7S	06/27/06	0.54	<0.01	0.019	0.33	<0.01	<0.01	120	<0.01	<0.01	15	0.014	25	1.9	<0.0002	0.015	6.7	0.039	<0.01	14	<0.01	<0.01	0.054
MW-7S	09/25/07	5.6	<0.01	0.048	0.34	<0.01	<0.01	97	<0.01	0.012	19	<0.01	33	0.97	<0.0002	0.013	4.7	<0.01	<0.01	37	<0.01	<0.01	0.05
MW-7S	12/16/08	0.29	<0.01	<0.01	0.26	<0.01	<0.01	160	<0.01	<0.01	6.2	0.015	19	1.6	<0.0002	0.019	3.1	0.039	<0.01	4.8	<0.01	<0.01	0.057
MW-7S	06/09/10	<0.20	<0.02	<0.02	0.26	<0.02	<0.02	102	<0.02	<0.02	19	0.05	17	1.5	<0.001	<0.02	2.8	<0.02	<0.02	6	<0.02	<0.02	<0.02
MW-7S	06/14/11	<0.20	0.03	<0.02	0.19	<0.02	<0.02	99	<0.02	<0.02	5.7	0.04	15	0.52	<0.001	<0.02	2.8	<0.02	<0.02	5.2	<0.01	<0.02	<0.02
MW-7S	11/26/13	<0.20	<0.02	<0.02	0.25	<0.02	<0.02	139	<0.02	<0.02	7.6	<0.02	19	1.5	<0.0008	<0.02	3.3	<0.02	<0.02	4	<0.01	<0.02	0.039
MW-7S	04/21/15	<0.20	<0.012	<0.02	0.2	<0.02	<0.02	120	<0.02	<0.02	10.6	<0.02	15	1.32	<0.0002	<0.02	11.1	<0.02	<0.02	<5.0	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
MW-8S	05/05/92	0.177	<0.0357	0.0086	0.24	<0.0013	<0.0038	104	0.0049	<0.0039	0.383	<0.003	67.6	0.882	<0.0002	0.0377	<1.190	<0.005	<0.0099	211	<0.005		<0.0045
MW-8S	12/15/92	0.137	0.0619	<0.005	0.18	<0.001	<0.003	61.9	0.0069	<0.004	0.36	0.0045	38.8	0.287		0.019	1	<0.004		79.9			<0.005
MW-8S	06/12/97	3.9	<0.06	<0.01	0.25	<0.01	<0.01	110	0.011	<0.02	11	0.011	43	0.83	<0.0002	0.032	2.8	<0.05	<0.01	69	<0.03		0.22
MW-8S	08/27/97						<0.01	130			11	0.018	66	0.88			4.2			160			
MW-8S	11/18/97						<0.01	140			7.2	<0.01	88	0.65			3.1			300			
MW-8S	04/28/98						<0.01	120			12	0.018	72	0.73			3.6			270			
MW-8S	06/23/98	3.1	<0.06	0.02	0.26	<0.01	<0.01	100	0.016	<0.02	8.1	<0.01	68	0.61	<0.0002	0.04	2.9	<0.05	<0.01	240	<0.03		0.063
MW-8S	11/25/98						<0.01	120			8.8	0.04	86	0.74			<1			490			
MW-8S	02/17/99						<0.01	110			8.2	<0.01	76	0.66			1.6			310			
MW-8S	03/30/99						<0.005	124			4.38	<0.001	81.5	0.692			0.917			332			
MW-8S	06/29/99						<0.005	70.6			4.86	0.002	41.3	0.35			1.58			102			
MW-8S	09/30/99	0.615	0.057	0.038	0.581	<0.002	<0.005	220	<0.010	0.025	13.6	0.002	138	1.39	<0.0002	0.081	1.48	<0.002	<0.010	707	<0.001		<0.020
MW-8S	12/29/99						0.019	188			16	<0.01	132	0.625			1.68			648			
MW-8S	03/30/00						<0.0050	93.6			5.78	<0.001	63.7	0.276			1.18			233			
MW-8S	06/22/00						<0.005	69.2			3.55	0.003	45.3	0.223			1.09			160			
MW-8S	09/21/00						<0.005	124			9.75	<0.001	84.2	0.494			1.52			445			
MW-8S	12/06/00	0.832	<0.050	0.1	0.169	<0.002	<0.005	52.3	<0.010	<0.017	6.76	0.002	30.9	0.184	<0.0002	<0.012	1.25	<0.002	<0.010	64.3	<0.001		0.021
MW-8S	03/22/01	0.737	<0.050	0.057	0.155	<0.002	<0.005	56.1	<0.010	<0.017	4.51	0.001	33.5	0.18	<0.0002	<0.012	1.06	<0.002	<0.010	64.9	<0.001		<0.020
MW-8S	06/05/01						<0.005	62.7			7.41	0.005	33.2	0.273			1.73			42.4			
MW-8S	09/25/01						<0.005	123			9.03	0.01	83.7	0.52			1.31			383			
MW-8S	12/04/01						<0.005	154			15.8	0.001	114	0.488			1.16			604			
MW-8S	09/11/02	2.09	<0.050	0.058	0.531	<0.002	<0.005	148	0.004	<0.017	12.7	0.002	105	0.604	<0.0002	0.063	2.16	0.002	<0.010	603	<0.001	<0.010	0.029
MW-8S	06/24/03	0.75	<0.050	0.042	0.302	<0.002	<0.001	91.1	<0.002	<0.017	7.98	<0.001	70.3	0.207	<0.0002	0.039	1.2	0.001	<0.001	337	0.002	<0.010	<0.020
MW-8S	03/31/04	8.7	<0.01	0.075	0.24	<0.01	<0.01	94	0.02	0.019	31	0.016	51	0.64	<0.0002	0.032	4.1	<0.01	<0.01	150	<0.01	0.023	0.06
MW-8S	12/10/04	0.61	<0.01	0.071	0.3	<0.01	<0.01	90	<0.01	<0.01	8.1	<0.01	60	0.39	<0.0002	0.026	1.7	<0.01	<0.01	370	<0.01	<0.01	0.02
MW-8S	09/27/05	7	<0.01	0.028	0.45	<0.01	<0.01	140	0.019	0.016	19	<0.01	110	0.88	<0.0002	0.075	6.8	<0.01	<0.01	770	<0.01	0.017	0.053
MW-8S	06/27/06	10	<0.01	0.062	0.38	<0.01	<0.01	120	0.019	0.02	27	0.018	74	0.76	<0.0002	0.051	7.2	0.083	<0.01	310	<0.01	0.018	0.065
MW-8S	09/25/07	19	<0.01	0.051	0.43	<0.01	<0.01	150	0.027	0.027	35	<0.01	68	1.2	<0.0002	0.037	8.4	<0.01	<0.01	57	<0.01	<0.01	0.088
MW-8S	12/16/08	6	<0.01	0.06	0.42	<0.01	<0.01	103	0.017	0.017	19	0.013	69	0.47	<0.0002	0.066	4.3	0.016	<0.01	470	<0.01	0.012	0.073
MW-8S	06/10/10	<0.20	<0.02	0.03	0.25	<0.02	<0.02	66	<0.02	<0.02	5	0.04	45	0.21	<0.001	<0.02	0.99	<0.02	<0.02	199	<0.02	<0.02	<0.02
MW-8S	06/14/11	1.2	<0.02	<0.02	0.25	<0.02	<0.02	70	<0.02	<0.02	6.8	0.03	49	0.22	<0.001	<0.02	1.8	<0.02	<0.02	199	<0.01	<0.02	<0.02
MW-8S	09/20/12	13	<0.02	<0.02	0.44	<0.02	<0.02	182	<0.02	0.03	35	0.03	78	1.2	<0.0008	0.03	5.2	<0.02	<0.02	61	<0.01	0.04	0.06
MW-8S	11/26/13	1.1	<0.02	0.095	0.27	<0.02	<0.02	76	<0.02	<0.02	9.3	<0.02	54	0.24	<0.0008	0.027	1.6	<0.02	<0.02	272	<0.01	<0.02	0.035
MW-8S	04/21/15	1.21	<0.012	0.11	0.27	<0.02	<0.02	68.2	<0.02	<0.02	7.47	<0.02	48.7	0.24	<0.0002	<0.02	10.3	<0.02	<0.02	184	<0.010	<0.02	<0.02
MW-9S	05/05/92	0.344	<0.0357	0.0149	0.649	<0.0013	<0.0038	52.1	<0.0039	<0.0039	1.82	<0.003	57.7	0.11	<0.0002	0.0368	89.3	<0.005	<0.0099	148	<0.005		0.0056
MW-9S	06/24/03	0.098	<0.050	0.178	1.23	<0.002	<0.001	70.2	0.006	<0.017	11.8	0.002	49.8	0.022	<0.0002	0.029	69.2	0.002	<0.001	134	<0.001	<0.010	<0.020
MW-9S	03/31/04	0.14	<0.01	0.14	1.1	<0.01	<0.01	70	0.019	<0.01	9.6	<0.01	51	0.039	<0.0002	0.033	9.6	<0.01	<0.01	200	<0.01	<0.01	0.076
MW-9S	12/10/04	<0.1	<0.01	0.11	1.2	<0.01	<0.01	71	<0.01	<0.01	7.4	<0.01	49	0.042	<0.0002	0.032	110	<0.01	<0.01	190	<0.01	<0.01	0.082
MW-9S	06/09/10	<0.2	<0.02	0.08	1.3	<0.02	<0.02	82	<0.02	<0.02	7.3	0.04	55	0.02	<0.001	0.03	68	<0.02	<0.02	173	<0.02	<0.02	<0.02
MW-9S	06/14/11	<0.20	<0.02	0.05	1.1	<0.02	<0.02	77	<0.02	<0.02	8	0.03	53	0.03	<0.001	0.03	65	<0.02	<0.02	176	0.011	<0.02	<0.02
MW-9S	11/26/13	0.84	<0.04	0.06	1.1	<0.02	<0.02	96	<0.02	<0.02	6.6	<0.02	59	0.21	<0.0008	0.043	75	<0.02	<0.02	192	<0.01	<0.02	0.05
MW-9S	04/21/15	1.24	<0.012	0.052	1.11	<0.02	<0.02	78.8	<0.02	<0.02	5.08	<0.02	53.6	0.092	<0.0002	0.034	72.8	<0.02	<0.02	201	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	1	0.003	0.005	0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1	0.01	0.05	20	0.0005	2				
MW-10S	05/05/92	0.274	0.0379	<0.005	0.132	<0.0013	<0.0038	168	<0.0039	<0.0039	39.9	0.0037	42.1	0.48	<0.0002	<0.0306	18	<0.005	<0.0099	48.9	<0.005		0.0277
MW-10S	12/15/92	0.0843	<0.039	<0.005	0.173	<0.001	<0.003	154	<0.005	<0.004	58.8	<0.003	38.6	0.383		<0.019	15.6		<0.004	47.8			0.0112
MW-10SR	06/12/97	43	0.15	<0.01	0.58	<0.01	<0.01	360	0.092	0.11	71	0.055	140	2.6	0.0002	0.16	8.8	<0.05	<0.01	26	<0.03		0.34
MW-10SR	08/27/97						<0.01	540			110	0.086	190	4.3			17			30			
MW-10SR	11/18/97						<0.01	79			10	<0.01	50	0.32			4.4			29			
MW-10SR	04/28/98						<0.01	310			74	0.044	130	2.3			13			38			
MW-10SR	06/23/98	2.5	<0.06	0.016	<0.2	<0.01	<0.01	55	0.019	<0.02	4.6	<0.01	47	0.2	<0.0002	0.022	2.9	<0.05	<0.01	27	<0.03		0.13
MW-10SR	11/25/98						<0.01	86			12	0.03	51	0.32			<1			24			
MW-10SR	02/17/99						<0.01	130			39	0.017	65	0.97			7			21			
MW-10SR	03/30/99						<0.005	47.4			0.368	0.001	42.2	0.0034			1.71			22.3			
MW-10SR	06/29/99						<0.005	56.6			2.54	0.002	48.5	0.111			2.56			24			
MW-10SR	09/30/99	0.742	<0.050	0.022	0.153	<0.002	<0.005	99.2	<0.010	0.02	2.94	0.005	54.9	0.362	<0.0002	<0.012	2.24	<0.002	<0.010	23.1	<0.001		<0.020
MW-10SR	12/29/99						0.007	86.6			9.35	0.008	59.7	0.258			3.56			26			
MW-10SR	03/30/00						0.006	70.8			7.25	0.003	54.7	0.169			2.74			24.4			
MW-10SR	06/22/00						<0.005	63			5.8	0.004	52.9	0.153			2.36			24.7			
MW-10SR	09/21/00						<0.005	57.3			3.34	0.002	49.4	0.107			2.46			23.6			
MW-10SR	12/06/00	2.96	<0.050	0.034	0.174	<0.002	<0.005	70.4	<0.010	<0.017	5.77	0.008	52.8	0.187	<0.0002	<0.012	2.62	<0.002	<0.010	27	<0.001		0.023
MW-10SR	03/22/01	4.78	<0.050	0.013	0.159	<0.002	0.005	68	0.017	<0.017	5.46	0.005	52.1	0.203	<0.0002	<0.012	3.18	<0.002	<0.010	22.8	<0.001		<0.020
MW-10SR	06/05/01						0.017	68.4			6.31	0.004	54	0.173			3.08			24.5			
MW-10SR	09/25/01						<0.005	85.1			10.6	0.014	58.6	0.324			3.45			24.6			
MW-10SR	12/04/01						<0.005	86.9			9.37	0.004	58.5	0.247			2.7			26.4			
MW-10SR	09/11/02	4.76	<0.050	0.092	0.183	<0.002	<0.005	81.3	0.005	<0.017	12.1	0.003	56.8	0.297	<0.0002	<0.012	3.04	<0.001	<0.010	23.3	<0.001	<0.010	0.033
MW-10SR	06/24/03	2.69	<0.050	0.001	0.155	<0.002	<0.001	114	0.003	<0.017	3.06	0.002	69.7	0.167	<0.0002	<0.012	1.97	<0.001	<0.001	16.3	<0.001	<0.010	<0.020
MW-10SR	03/31/04	36	<0.01	0.18	0.5	<0.01	<0.01	350	0.061	0.067	2.9	0.06	150	2.9	<0.0002	<0.01	12	<0.01	<0.01	34	<0.01	0.074	0.19
MW-10SR	12/10/04	0.79	<0.01	0.017	0.14	<0.01	<0.01	67	<0.01	<0.01	2.8	<0.01	47	0.22	<0.0002	<0.01	2.7	<0.01	<0.01	25	<0.01	<0.01	0.033
MW-10SR	09/27/05	17	<0.01	0.042	0.28	<0.01	<0.01	140	0.031	0.028	27	<0.01	83	0.93	<0.0002	0.023	9.6	<0.01	<0.01	33	<0.01	0.029	0.13
MW-10SR	06/27/06	10	<0.01	<0.01	0.24	<0.01	<0.01	140	0.017	0.021	18	0.018	84	0.81	0.00026	0.019	6.3	0.05	<0.01	33	<0.01	0.016	0.12
MW-10SR	09/25/07	64	<0.01	0.13	0.84	<0.01	<0.01	610	0.10	0.14	140	0.024	230	4.7	<0.0002	0.12	14	<0.01	<0.01	37	<0.01	0.035	0.3
MW-10SR	12/16/08	8.2	<0.01	<0.01	0.25	<0.01	<0.01	120	0.016	0.018	14	0.014	70	0.49	<0.0002	0.022	5.9	0.025	<0.01	36	<0.01	0.014	0.082
MW-10SR	06/10/10	<0.20	<0.02	<0.02	0.14	<0.02	<0.02	56	<0.02	<0.02	0.52	0.04	51	0.06	<0.001	<0.02	1.7	<0.02	<0.02	28	<0.02	<0.02	<0.02
MW-10SR	06/14/11	3.9	<0.02	<0.02	0.16	<0.02	<0.02	81	<0.02	<0.02	4.8	0.04	63	0.2	<0.001	<0.02	3.5	<0.02	<0.02	29	<0.01	<0.02	<0.02
MW-10SR	09/20/12	1.5	<0.02	<0.02	0.16	<0.02	<0.02	91	<0.02	<0.02	5.2	0.02	56	0.41	<0.0008	<0.02	2.9	<0.02	<0.02	26	<0.01	<0.02	0.02
MW-10SR	11/26/13	0.94	<0.02	<0.02	0.017	<0.02	<0.02	59	<0.02	<0.02	1.4	<0.02	54	0.076	<0.0008	<0.02	<10	<0.02	<0.02	29	<0.01	<0.02	<0.02
MW-10SR	04/21/15	1.69	<0.012	<0.02	0.14	<0.02	<0.02	52.5	<0.02	<0.02	2.07	<0.02	49.4	0.093	<0.0002	<0.02	18.4	<0.02	<0.02	29.1	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.003	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
MW-11S	05/05/92	0.96	<0.0357	0.0098	0.374	<0.0013	<0.0038	109	0.0073	<0.0039	1.63	<0.015	95.9	1.85	<0.0002	0.131	1.76	<0.005	0.0159	391	<0.005		0.0157
MW-11S	12/15/92	0.458	<0.039	0.0182	0.471	<0.001	<0.0052	120	<0.005	0.0057	4.59	0.0071	69.4	1.39		0.154	2.81	<0.004		270			0.006
MW-11SR	06/12/97	8.9	<0.06	<0.01	0.32	<0.01	<0.01	140	0.033	0.044	16	0.015	62	1.2	0.0003	0.13	4.3	<0.05	<0.01	24	<0.03		0.3
MW-11SR	08/27/97						<0.01	190			41	0.032	67	1.6			8.3			21			
MW-11SR	11/18/97						<0.01	140			7	<0.01	66	1.3			2.2			87			
MW-11SR	04/28/98						<0.01	180			12	<0.01	86	1.4			3.1			94			
MW-11SR	06/23/98	26	<0.06	0.065	0.48	<0.01	<0.01	320	0.093	0.08	50	0.033	140	2.9	<0.0002	0.13	12	<0.05	<0.01	94	<0.03		0.21
MW-11SR	11/25/98						<0.01	280			72	0.1	110	2.4			2.1			150			
MW-11SR	02/17/99						<0.01	300			53	0.016	120	2.2			6.6			120			
MW-11SR	03/30/99						<0.005	155			4.4	0.002	76.5	1.03			0.803			104			
MW-11SR	06/29/99						<0.005	312			18.7	0.007	96.4	2.03			1.52			94.3			
MW-11SR	09/30/99	1.29	0.054	0.014	0.37	<0.002	<0.005	258	0.02	0.036	20.6	0.015	98.5	2.63	<0.0002	0.076	1.91	<0.002	<0.010	165	<0.001		0.032
MW-11SR	12/29/99						<0.005	177			30.1	0.001	83.5	0.912			1.77			187			
MW-11SR	03/30/00						<0.0050	142			24.9	0.001	73.9	0.554			1.12			148			
MW-11SR	06/22/00						<0.005	110			15.2	0.005	63.2	0.383			1.18			119			
MW-11SR	09/21/00						<0.005	108			6.25	0.003	50.6	0.413			1.63			93.2			
MW-11SR	12/05/00	3.46	<0.050	0.012	0.296	<0.002	<0.005	168	<0.010	0.019	10.7	0.004	72	0.888	<0.0002	0.035	2.34	<0.002	<0.010	131	<0.001		0.043
MW-11SR	03/22/01	1.37	<0.050	0.01	0.28	<0.002	<0.005	119	<0.010	<0.017	9.94	0.002	58.8	0.491	<0.0002	0.028	1.35	<0.002	<0.010	111	<0.001		<0.020
MW-11SR	06/05/01						<0.005	119			9.49	0.002	61.2	0.478			1.29			112			
MW-11SR	09/25/01						<0.005	97.2			1.74	0.01	28	0.316			3.26			142			
MW-11SR	12/04/01						<0.005	149			8.56	0.004	63.8	0.67			2.18			171			
MW-11SR	09/11/02										Sampling Location Dry												
MW-11SR	06/24/03	0.268	<0.050	0.011	0.22	<0.002	<0.001	101	0.002	<0.017	8.79	0.003	48.6	0.382	<0.0002	<0.012	1.06	<0.001	<0.001	88.1	<0.001	<0.010	<0.020
MW-11SR	03/31/04	0.82	<0.01	0.028	0.21	<0.01	<0.01	100	<0.01	<0.01	7.8	<0.01	47	0.69	<0.0002	0.027	2.1	<0.01	<0.01	140	<0.01	<0.01	0.068
MW-11SR	12/10/04	0.15	<0.01	0.018	0.24	<0.01	<0.01	110	<0.01	<0.01	5.5	<0.01	44	0.69	<0.0002	0.013	2.6	<0.01	<0.01	120	<0.01	<0.01	0.018
MW-11SR	09/27/05	4.5	<0.01	<0.01	0.29	<0.01	<0.01	120	0.017	0.012	9.4	<0.01	59	0.78	<0.0002	0.074	4.5	<0.01	<0.01	76	<0.01	<0.01	0.2
MW-11SR	06/27/06	4.9	<0.01	<0.01	0.36	<0.01	<0.01	150	0.09	0.017	18	0.015	77	1.1	<0.0002	0.042	3.8	0.06	<0.01	170	<0.01	0.01	0.069
MW-11SR	09/25/07																						
MW-11SR	12/16/08	8	<0.01	<0.01	0.35	<0.01	<0.01	180	0.019	0.025	15	0.014	71	1	<0.0002	0.05	5	0.037	<0.01	120	<0.01	0.016	0.072
MW-11SR	06/10/10	<0.20	<0.02	<0.02	0.3	<0.02	<0.02	94	<0.02	<0.02	3.9	0.06	50	0.53	<0.001	<0.02	0.96	<0.02	<0.02	99	<0.02	<0.02	<0.02
MW-11SR	06/14/11	1.2	0.03	<0.02	0.28	<0.02	<0.02	105	<0.02	<0.02	5.1	0.05	52	0.6	<0.001	0.02	1.6	<0.02	<0.02	107	<0.01	<0.02	<0.02
MW-11SR	11/26/13	0.14	<0.02	<0.02	0.2	<0.02	<0.02	134	<0.02	<0.02	1.2	<0.02	48	0.48	<0.0008	<0.02	<10	<0.02	<0.02	57	<0.01	<0.02	<0.02
MW-11SR	04/21/15	0.66	<0.012	<0.02	0.23	<0.02	<0.02	96.5	<0.02	<0.02	2.8	<0.02	47.5	0.47	<0.0002	<0.02	16.7	<0.02	<0.02	76.7	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
DGC-2D	05/06/92	0.1	<0.0357	<0.005	0.199	<0.0013	<0.0038	21	0.0077	<0.0039	0.191	0.0034	11.1	0.0163	<0.0002	<0.0306	3.62	<0.005	<0.0099	11.1	<0.005		0.0061
DGC-2D	06/12/97	0.49	<0.06	<0.01	<0.2	<0.01	<0.01	24	<0.01	<0.02	0.65	<0.01	13	0.029	<0.0002	<0.01	3.6	<0.05	<0.01	11	<0.03		0.18
DGC-2D	08/27/97						<0.01	24			2	<0.01	11	0.072			2.9			7.7			
DGC-2D	11/18/97						<0.01	32			7.8	<0.01	15	0.18			4.8			11			
DGC-2D	04/28/98						<0.01	40			11	<0.01	19	0.27			5.1			13			
DGC-2D	06/23/98	5.7	<0.06	0.022	0.23	<0.01	<0.01	39	0.011	<0.02	12	0.011	19	0.26	<0.0002	0.015	5.2	<0.05	<0.01	11	<0.03		0.067
DGC-2D	11/25/98						<0.01	39			8.5	0.013	16	0.17			1.1			11			
DGC-2D	02/17/99						<0.01	41			11	<0.01	19	0.27			4.3			9.7			
DGC-2D	03/30/99						<0.005	24.2			0.446	0.001	12.1	0.036			2.69			9.59			
DGC-2D	06/29/99						<0.005	24.1			1.14	<0.001	11.7	0.024			3.63			18.1			
DGC-2D	09/30/99	0.606	<0.050	0.004	0.092	<0.002	<0.005	17.7	<0.010	<0.017	0.743	<0.001	4.8	0.013	<0.0002	<0.012	3.33	<0.002	<0.010	19.6	<0.001		<0.020
DGC-2D	12/29/99						<0.005	16.3			0.94	<0.001	4.72	0.02			3.18			20.6			
DGC-2D	03/30/00						<0.0050	19.4			1.27	0.001	6.84	0.023			3.54			21.3			
DGC-2D	06/22/00						<0.005	16.3			0.635	0.002	7.29	0.011			3.17			20			
DGC-2D	09/21/00						<0.005	64.5			10.2	0.004	24.5	0.351			7.74			19.5			
DGC-2D	12/06/00	0.242	<0.050	0.007	0.638	<0.002	<0.005	90.3	<0.010	<0.017	24	0.001	32.3	0.581	<0.0002	<0.012	10.2	<0.002	<0.010	28.7	<0.001		<0.020
DGC-2D	03/22/01	0.367	<0.050	0.008	0.772	<0.002	<0.005	77.8	<0.010	<0.017	26.2	0.002	29.1	0.448	<0.0002	<0.012	7.04	<0.002	<0.010	29.5	<0.001		<0.020
DGC-2D	06/05/01						<0.005	60.8			4.89	0.003	24.5	0.257			5.78			26			
DGC-2D	09/25/01						<0.005	34.6			4.19	0.006	14.6	0.078			3.37			16.6			
DGC-2D	12/4/01						<0.005	32.1			5.72	0.002	12.5	0.101			3.21			15.2			
DGC-2D	09/11/02	<0.075	<0.050	0.005	1.29	<0.002	<0.005	89	<0.002	<0.017	5.7	<0.001	37.8	0.334	<0.0002	<0.012	8.6	0.001	<0.010	58.5	<0.001	<0.010	<0.020
DGC-2D	06/24/03	0.164	<0.050	0.006	0.298	<0.002	0.001	66.3	<0.002	<0.017	11.7	<0.001	33.4	0.21	<0.0002	<0.012	2.35	<0.001	<0.001	14.9	0.001	<0.010	<0.020
DGC-2D	03/31/04	0.2	<0.01	0.013	0.27	<0.01	<0.01	38	<0.01	<0.01	3.2	<0.01	18	0.12	<0.0002	<0.01	3.4	<0.01	<0.01	13	<0.01	<0.01	0.043
DGC-2D	12/10/04	<0.1	<0.01	<0.01	0.18	<0.01	<0.01	29	<0.01	<0.01	3.1	<0.01	13	0.1	<0.0002	<0.01	2.6	<0.01	<0.01	11	<0.01	<0.01	0.016
DGC-2D	09/27/05	0.16	<0.01	<0.01	0.15	<0.01	<0.01	30	<0.01	<0.01	2.2	<0.01	14	0.084	<0.0002	<0.01	2.5	<0.01	<0.01	9.9	<0.01	<0.01	0.025
DGC-2D	06/27/06	0.2	<0.01	<0.01	<0.2	<0.01	<0.01	28	<0.01	0.01	2.2	<0.01	12	0.086	<0.0002	<0.01	2.5	0.029	<0.01	11	0.01	<0.01	0.02
DGC-2D	09/25/07	0.23	<0.01	<0.01	<0.2	<0.01	<0.01	29	<0.01	<0.01	12	<0.01	0.079	<0.01	<0.0002	<0.01	2.5	<0.01	<0.01	12	<0.01	<0.01	<0.01
DGC-2D	12/16/08	0.23	<0.01	<0.01	<0.2	<0.01	<0.01	26	<0.01	<0.01	1.4	<0.01	11	0.052	<0.0002	<0.01	2.2	<0.01	<0.01	11	<0.01	<0.01	0.028
DGC-2D	06/09/10	<0.20	<0.02	<0.02	0.19	<0.02	<0.02	37	<0.02	<0.02	1.2	0.03	18	0.1	<0.001	<0.02	2.4	<0.02	0.02	11	<0.02	<0.02	<0.02
DGC-2D	06/14/11	<0.20	<0.02	<0.02	0.11	<0.02	<0.02	24	<0.02	<0.02	0.4	0.02	11	0.05	<0.001	<0.02	2.4	<0.02	<0.02	8.7	<0.01	<0.02	<0.02
DGC-2D	09/20/12	<0.20	<0.02	<0.02	0.12	<0.02	<0.02	23	<0.02	<0.02	0.52	<0.02	11	0.06	<0.0008	<0.02	2.3	<0.02	<0.02	9.7	<0.01	<0.02	<0.02
DGC-2D	11/26/13	<0.20	<0.02	<0.02	0.11	<0.02	<0.02	25	<0.02	<0.02	0.46	<0.02	11	0.038	<0.0008	<0.02	2.2	<0.02	<0.02	9.3	<0.01	<0.02	0.054
DGC-2D	04/21/15	<0.20	<0.012	<0.02	0.27	<0.02	<0.02	48.5	<0.02	<0.02	2.14	<0.02	22.2	0.12	<0.0002	<0.02	19	<0.02	<0.02	12.3	<0.010	<0.02	<0.02

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l						
Class GA Standard or Guidance Value		0.003	0.025	1	0.003	0.003	0.005	0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1	0.01	0.05	20	0.0005	2									
DGC-3D	05/06/92	0.265	<0.0357	<0.005	0.2	<0.0013	<0.0038	27.9	0.0053	<0.0039	0.607	0.0089	14.7	0.0815	<0.0002	<0.0306	2.98	<0.005	<0.0099	20.9	<0.005		0.0054						
DGC-3D	06/12/97	2.8	<0.06	<0.01	0.37	<0.01	<0.01	47	<0.01	<0.02	5	0.01	22	0.22	<0.0002	<0.01	4.6	<0.05	<0.0099	19	<0.03		0.16						
DGC-3D	08/27/97						0.026	730			200	0.25	280	8.1						38									
DGC-3D	11/18/97						<0.01	46			7.8	<0.01	19	0.27			5.1			25									
DGC-3D	04/28/98						<0.01	39			3.8	<0.01	18	0.19			2.3			25									
DGC-3D	06/23/98	25	<0.06	0.052	0.53	<0.01	<0.01	170	0.043	0.047	49	0.037	63	1.6	<0.0002	0.047	12	<0.05	<0.01	29	<0.03		0.14						
DGC-3D	11/25/98						<0.01	57			14	0.021	22	0.36			1.6			22									
DGC-3D	02/17/99										Location Not Sampled																		
DGC-3D	03/30/99						<0.005	22.8			0.203	0.001	13.2	0.051			2.64			18									
DGC-3D	06/29/99						<0.005	25.4			0.898	<0.001	13.9	0.067			3.52			20.7									
DGC-3D	09/30/99	0.102	<0.050	0.004	0.219	<0.002	<0.005	22.7	<0.010	<0.017	0.469	<0.001	12.5	0.05	<0.0002	<0.012	2.89	<0.002	<0.010	18.2	<0.001		<0.020						
DGC-3D	12/29/99						0.007	25.4			0.488	<0.001	13.2	0.056			2.9			18									
DGC-3D	03/30/00						0.01	25.2			0.74	0.001	13.7	0.054			2.97			18.7									
DGC-3D	06/22/00						<0.005	25.7			1.51	0.003	13.6	0.084			2.96			18.7									
DGC-3D	09/21/00						<0.005	23.8			0.673	0.002	13.2	0.066			3.41			19.1									
DGC-3D	12/06/00	0.22	<0.050	0.005	0.24	<0.002	<0.005	24	<0.010	<0.017	0.654	<0.001	12.7	0.062	<0.002	<0.012	3	<0.002	<0.010	18.7	<0.001		0.029						
DGC-3D	03/22/01	1.76	<0.050	0.004	0.234	<0.002	<0.005	27.8	<0.010	<0.017	2.97	0.003	14	0.122	<0.0002	<0.012	3.08	<0.002	<0.010	16.3	<0.001		<0.020						
DGC-3D	06/05/01						<0.005	29			1.58	0.002	14.9	0.086			3.22			18.8									
DGC-3D	09/25/01						<0.005	27.1			1.61	0.013	14.1	0.09			2.86			18.3									
DGC-3D	12/04/01						<0.005	25.3			0.852	0.008	13.1	0.07			2.78			17.6									
DGC-3D	09/11/02	0.555	<0.050	0.004	0.219	<0.002	<0.005	24.6	<0.002	<0.017	1.07	0.001	13	0.062	<0.0002	<0.012	2.82	<0.001	<0.010	16.7	<0.001	<0.010	<0.020						
DGC-3D	06/24/03	0.283	<0.050	0.007	0.204	<0.002	<0.001	22.7	<0.002	<0.017	1.02	<0.001	12	0.057	<0.0002	<0.012	2.42	<0.001	<0.001	15	<0.001	<0.010	<0.020						
DGC-3D	04/01/04	1.1	<0.01	0.011	0.27	<0.01	<0.01	30	<0.01	<0.01	1.9	<0.01	15	0.1	<0.0002	<0.01	4	<0.01	<0.01	19	<0.01	<0.01	0.049						
DGC-3D	12/10/04	2.2	<0.01	0.011	0.37	<0.01	<0.01	120	<0.01	<0.01	8.2	0.012	38	0.93	<0.0002	<0.01	4.1	<0.01	<0.01	17	<0.01	<0.01	0.045						
DGC-3D	09/27/05	4	<0.01	<0.01	0.33	<0.01	<0.01	47	<0.01	0.011	6.6	<0.01	20	0.25	<0.0002	<0.01	5.1	<0.01	<0.01	18	<0.01	<0.01	0.085						
DGC-3D	06/27/06	28	<0.01	<0.01	0.62	<0.01	<0.01	220	0.037	0.054	52	0.043	82	2	<0.0002	0.054	12	0.068	<0.01	22	<0.01	0.039	0.17						
DGC-3D	09/25/07	16	<0.01	0.012	0.47	<0.01	<0.01	110	0.019	0.024	30	<0.01	41	0.96	<0.0002	0.025	8.3	<0.01	<0.01	19	<0.01	<0.01	0.13						
DGC-3D	12/16/08	5.5	<0.01	<0.01	0.36	<0.01	<0.01	54	<0.01	<0.01	8.2	0.011	20	0.3	<0.0002	0.014	5.1	<0.01	<0.01	19	<0.01	<0.01	0.13						
DGC-3D	06/10/10	0.23	<0.02	<0.02	0.24	<0.02	<0.02	23	<0.02	<0.02	0.53	0.02	12	0.05	<0.001	<0.02	2.7	<0.02	0.02	15	<0.02	<0.02	0.03						
DGC-3D	06/14/11	6.1	<0.02	<0.02	0.32	<0.02	<0.02	62	<0.02	<0.02	8.5	0.03	24	0.44	<0.001	<0.02	5.5	<0.02	<0.02	15	<0.01	0.02	0.03						
DGC-3D	09/20/12	0.67	<0.02	<0.02	0.24	<0.02	<0.02	25	<0.02	<0.02	1.3	<0.02	14	0.09	<0.0008	<0.02	3.1	<0.02	<0.02	15	<0.01	<0.02	<0.02						
DGC-3D	11/26/13	8.6	<0.02	<0.02	0.36	<0.02	<0.02	52	<0.02	<0.02	12	<0.02	22	0.36	<0.0008	<0.02	5.8	<0.02	<0.02	15	<0.01	0.023	0.034						
DGC-3D	04/22/15	7.62	<0.012	<0.02	0.32	<0.02	<0.02	46.9	<0.02	<0.02	10.3	<0.02	20.8	0.31	<0.0002	<0.02	7.95	<0.02	<0.02	15.8	<0.010	<0.02	0.045						

TABLE 6 - HISTORICAL GROUNDWATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	V mg/l	Zn mg/l
Class GA Standard or Guidance Value		0.003	0.025	0.025	1	0.003	0.005		0.05	0.2	0.3	0.025	35	0.3	0.0007	0.1		0.01	0.05	20	0.0005		2
DGC-6D	05/06/92	8.27	<0.0357	0.0084	0.212	<0.0013	<0.0038	59.3	0.0113	<0.0039	9.72	0.017	24.9	0.275	<0.0002	<0.0306	4.65	<0.005	<0.0099	7.05	<0.005		0.0245
DGC-6D	06/12/97	3.1	<0.06	0.012	<0.2	<0.01	<0.01	59	<0.01	<0.02	5	0.011	26	0.25	<0.0002	<0.01	2.7	<0.05	<0.01	5.6	<0.03		0.21
DGC-6D	08/27/97						<0.01	51			6.1	<0.01	20	0.09			2			5			
DGC-6D	11/18/97						<0.01	51			5.8	0.012	22	0.23			3			7.6			
DGC-6D	04/28/98						<0.01	58			6.9	0.013	26	0.26			3.1			8			
DGC-6D	06/23/98	5.7	<0.06	0.019	<0.2	<0.01	<0.01	76	0.012	<0.02	11	0.018	34	0.47	<0.0002	0.014	3.9	<0.05	<0.01	7.5	<0.03		0.074
DGC-6D	11/25/98						<0.01	58			5.3	0.026	22	0.21			<1			6.9			
DGC-6D	02/17/99						<0.01	37			3.7	0.013	17	0.12			2.5			6.1			
DGC-6D	03/30/99						<0.005	42.4			1.28	0.007	18.2	0.096			1.77			6.54			
DGC-6D	06/29/99						<0.005	32.4			1.23	0.003	15.2	0.029			2.2			6.43			
DGC-6D	09/30/99	1.28	<0.050	0.011	0.157	<0.002	<0.005	40	<0.010	<0.017	1.94	0.005	17.8	0.113	<0.0002	<0.012	2.23	<0.002	<0.010	6.52	<0.001		<0.020
DGC-6D	12/29/99						<.005	32.6			1.35	0.002	15.5	0.047			1.93			6.79			
DGC-6D	03/30/00						<0.0050	34.3			1.67	0.001	16.1	0.026			2.18			6.23			
DGC-6D	06/22/00						<0.005	29.1			0.79	0.004	14	0.03			1.72			6.08			
DGC-6D	09/21/00						<0.005	32.5			1.46	0.003	14.9	0.045			2.23			7.22			
DGC-6D	12/06/00	0.401	<0.050	0.008	0.142	<0.002	<0.005	34.4	<0.010	<0.017	0.773	0.004	15.8	0.037	<0.0002	<0.012	1.75	<0.002	<0.010	6.94	<0.001		<0.020
DGC-6D	03/22/01	8.88	<0.050	0.008	0.194	<0.002	<0.005	115	0.012	0.021	14.3	0.011	47	0.695	<0.0002	<0.012	4.26	<0.002	<0.010	6.21	<0.001		0.041
DGC-6D	06/05/01						<0.005	45.2			7.69	0.01	19.7	0.172			4.14			6.82			
DGC-6D	09/25/01						<0.005	141			24	0.046	54.4	0.922			5.81			7.96			
DGC-6D	12/04/01						<0.005	98.2			11.2	0.022	39.6	0.556			3.59			7.06			
DGC-6D	09/11/02	3.01	<0.050	0.008	0.147	<0.002	<0.005	44.2	0.003	<0.017	4.06	0.007	19.6	0.154	<0.0002	<0.012	2.73	<0.001	<0.010	6.62	<0.001	<0.010	0.025
DGC-6D	06/24/03	1.47	<0.050	0.008	0.124	<0.002	<0.001	33.7	<0.002	<0.017	1.82	0.002	15.4	0.062	<0.0002	<0.012	1.84	<0.001	<0.001	5.8	<0.001	<0.010	<0.020
DGC-6D	03/31/04	10	<0.01	0.037	0.25	<0.01	<0.01	140	0.017	0.025	20	0.029	64	1.1	<0.0002	0.017	5.3	<0.01	<0.01	8.4	<0.01	0.022	0.069
DGC-6D	12/10/04	0.94	<0.01	<0.01	0.14	<0.01	<0.01	36	<0.01	<0.01	1.5	<0.01	16	0.11	<0.0002	<0.01	1.9	<0.01	<0.01	7	<0.01	<0.01	0.032
DGC-6D	09/27/05	2.5	<0.01	<0.01	0.17	<0.01	<0.01	49	<0.01	<0.01	3.9	<0.01	22	0.17	<0.0002	<0.01	2.7	<0.01	<0.01	7.7	<0.01	<0.01	0.07
DGC-6D	06/27/06	2.7	<0.01	<0.01	<0.2	<0.01	<0.01	49	<0.01	<0.01	3.5	0.012	22	0.18	<0.0002	<0.01	2.8	0.048	<0.01	7	<0.01	<0.01	0.048
DGC-6D	09/25/07	1	<0.01	0.014	<0.2	<0.01	<0.01	41	<0.01	<0.01	1.8	<0.01	19	0.12	<0.0002	<0.01	2	<0.01	<0.01	6.5	<0.01	<0.01	0.02
DGC-6D	12/16/08	1.5	<0.01	<0.01	<0.2	<0.01	<0.01	44	<0.01	<0.01	2.3	0.012	19	0.12	<0.0002	<0.01	2.6	0.014	<0.01	7.3	<0.01	<0.01	0.043
DGC-6D	06/09/10	<0.20	<0.02	<0.02	0.15	<0.02	<0.02	36	<0.02	<0.02	0.54	0.03	16	0.07	<0.001	<0.02	1.5	<0.02	<0.02	5.6	<0.02	<0.02	<0.02
DGC-6D	06/14/11	1.1	<0.02	<0.02	0.14	<0.02	<0.02	35	<0.02	<0.02	1.4	0.02	16	0.05	<0.001	0.02	1.6	<0.02	<0.02	5.9	<0.01	<0.02	<0.02
DGC-6D	09/20/12	0.54	<0.02	<0.02	0.15	<0.02	<0.02	30	<0.02	<0.02	0.79	<0.02	15	0.03	<0.0008	<0.02	1.9	<0.02	<0.02	6.7	<0.01	<0.02	0.03
DGC-6D	11/26/13	1.6	<0.02	<0.02	0.16	<0.02	<0.02	37	<0.02	<0.02	2.3	<0.02	17	0.068	<0.0008	<0.02	3.1	<0.02	<0.02	7.1	<0.01	<0.02	0.049
DGC-6D	04/21/15	1.08	<0.012	<0.02	0.15	<0.02	<0.02	39.7	<0.02	<0.02	1.31	<0.02	17.6	0.089	<0.0002	<0.02	18.2	<0.02	<0.02	7.65	<0.010	<0.02	<0.02

TABLE 7 - HISTORICAL SURFACE WATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well Units	Date Sampled	Eh mV	Cond(fld) umhos/cm	Turb(fld) NTU	pH SU	Temp degC	BOD-5 mg/l	Color PCCU	Hex-Cr mg/l	NO3 mg/l	Alk mg/CaCO3	Cl- mg/l	COD mg/l	NH3 mg/l	SO4 mg/l	B mg/l	Br mg/l	CN- mg/l	TDS mg/l	TKN mg/l	TOC mg/l	Phenols mg/l	Hard mg/CaCO3
Class GA Standard or Guidance Value					6.5-8.5				0.011							10		9				0.005	
SW-1	05/13/92	163	330	1.1	6.42	20	<3	80		<0.04	150	35	33	0.08	7	<0.1		<0.010	247	0.55	14.4	0.06	216
SW-1	06/12/97	-300	616	7	7.71	24.8	<4	200	<0.01	0.026	340	71	43	<0.03	<5	<1		<0.01	400	3.2	16	<0.002	300
SW-1	08/27/97	145	665	26	7.52	21	18			0.091	170	85	39	<0.03	68				310	3.5	10.4	0.0055	200
SW-1	11/18/97	130	585	4	7.79	0.9	<4			<0.02	100	67	<1	<0.03	87				350	0.73	10	<0.002	160
SW-1	4/28/98	10	632	18	8.31	15.3	<4			<0.02	170	62	19	<0.03	<5				300	1.1	11	<0.002	180
SW-1	06/23/98	65	509	0	7.41	23.1	<4	100	<0.01	<0.1	170	46	29	<0.03	13	<1		<0.01	330	1.2	16	<0.002	160
SW-1	11/25/98	290	0.61	17	7.55	4.4	11			<0.1	150	120	38	<0.03	22				370	0.97	13	<0.002	190
SW-1	02/17/99		835	66	8.68	0.9	51			<0.1	95	230	94	<0.03	12				390	28	14	<0.002	210
SW-1	03/29/99	100	255	3.8	8.04	7.3	<3			<0.050	64.5	21.1	<10.0	<0.100	13				113	2.58	6.3	<0.001	65.5
SW-1	06/29/99	-115	550	10.12	8.25	24.5	9			<0.050	156	55.3	45.7	<0.100	28				312	<1.00	17	0.007	192
SW-1	09/30/99	-12	950	8.2	7.74	15	3	70	<0.010	0.492	121	138	25.2	0.123	83	0.048		<0.010	535	<1.00	16	0.031	199
SW-1	12/29/99	-24	610	4.58	7.42	1.8	<3			<0.5	97.5	77.1	14.2	<1	48				338	<1	11	<0.005	184
SW-1	03/30/00	-62	490	1.5	7.88	5.7	<3			0.291	116	66	19.9	0.125	20				270	<1	9.2	0.0055	137
SW-1	06/22/00	-123	425	1.66	7.89	21.8	<3			<0.05	172	39.1	35.6	<0.1	<5				281	<1	14	<0.004	165
SW-1	09/21/00	-58	574	7	7.66	16.4	<3			<0.05	150	59.4	22.2	<0.1	<5				261	2.26	16	0.0121	166
SW-1	12/06/00	-14	539	5.3	8.13	0	<3	45	<0.01	<0.05	150	61.3	16.5	<0.1	24	<0.048		<0.01	304	<1	11	<0.004	180
SW-1	03/22/01	15.3	460	7.7	7.46	5.1	<3	45	<0.01	0.375	61.6	32.8	30.1	<0.1	18	<0.048		<0.01	140	<1	31	<0.004	77.2
SW-1	06/05/01	15	668	17.4	8.26	17.3	<3			<0.1	170	68.1	36.6	<0.1	<5				321	<1	11	0.0393	185
SW-1	09/25/01	80	1024	17.3	7.75	18.5	4			0.298	101	227	32.6	<0.1	69				670	1.19	12	0.0056	173
SW-1	12/04/01	267	637	1.25	7.7	9.1	<3			<0.1	115	89.6	<10	<0.1	37.1				326	2.03	7.1	<0.004	168
SW-1	09/11/02	47	480	13.3	7.65	20	<3	50	<0.01	0.101	166	105	14.9	<0.1	71.6	0.065		<0.005	458	1.05	9.2	0.0065	190
SW-1	06/24/03	90	510	8.6	7.85	21.2	<3	70	<0.01	<0.1	181	41.3	17.5	<0.1	<5	<0.048		<0.005	269	<1	11	<0.004	147
SW-1	03/31/04	125	376	10	7.5	11.3	9.4	100	<0.01	<0.1	100	57	29	<0.03	9.3	<0.5		<0.01	240	0.58	8	<0.002	110
SW-1	12/10/04	135	280	21	7.45	3.8	<4	400	<0.01	0.043	110	44	20	0.11	11	<0.5		<0.01	58	0.34	7.1	<0.002	120
SW-1	09/27/05	315	834	5	7.14	17.2	<4	120	<0.01	0.18	160	160	28	<0.03	38	<0.5		<0.01	550	0.67	12	<0.002	160
SW-1	06/27/06	285	677	10	7.21	21	9.8	450	<0.01	<0.02	200	94	34	<0.03	2.1	<0.5		<0.01	460	0.84	15	<0.002	220
SW-1	09/25/07	265	711	0	8.52	21.4	4.9	40	<0.01	<0.1	120	120	31	<0.03	95	<0.5		<0.01	510	1.8	13	<0.003	200
SW-1	12/16/08	160	274	0	8.33	0.1	<4	30	<0.01	<0.1	100	52	20	<0.03	9.2	<0.5		<0.01	230	0.35	7.2	<0.003	110
SW-1	06/10/10	230.2	200	0	7.19	15.7	<4	70	<0.004	<0.5	197	90	109	0.07	<5	<0.1		<0.005	576	1.58	12	<0.010	156
SW-1	06/14/11	171.1	460	69	8.13	19.6	<4	45	<0.004	0.08	193	62	38	0.35	6.4	<0.1		<0.005	320	1.54	13.6	<0.010	174
SW-1	09/20/12	Sampling Location Dry									Sampling Location Dry												
SW-1	11/26/13	164	0.447	1.8	8.28	3.8	<4.0	35	<0.004	0.05	156	73	16	0.14	9.22	0.034	<1.0	<0.01	316	<0.5	10.4	<0.010	170
SW-1	04/21/15	40	0.513	0	7.47	14.33	<4.0	50	<0.004	<0.05	124	85	27	0.16	<10.0	0.032	0.131	<0.01	284	0.68	9.69	<0.010	139
SW-2	05/13/92	145	430	1.6	6.15	18	<3	80		<0.04	155	46	28	<0.05	7	<0.1		<0.01	260	0.56	13.6	<0.01	230
SW-2	06/12/97	80	291	7	8.09	22.5	<4	25	<0.01	0.081	150	24	8.6	<0.03	34	<1		<0.01	200	1.1	5.8	<0.002	130
SW-2	08/27/97	150	287	12	7.52	19.2	7.4			0.1	79	23	180	<0.03	28				160	1.5	6.8	<0.002	120
SW-2	11/18/97	155	481	33	7.42	0.1	12			0.064	100	72	<1	0.072	78				390	1.2	11	<0.002	150
SW-2	4/28/98	80	533	31	7.01	9.1	14			<0.02	200	50	30	<0.03	<5				300	2.4	14	0.011	240
SW-2	06/23/98	65	322	5	7.32	24.1	<4	40	<0.01	<0.1	120	22	10	<0.03	41	<1		<0.01	230	1.2	9	<0.002	140
SW-2	11/25/98	130	0.613	13	7.1	4.7	4.1			<0.1	160	120	31	<0.03	18				350	1.1	13	<0.002	180
SW-2	03/29/99	212	225	3.8	8.02	5.8	<3			<0.050	69.2	21.7	<10.0	0.111	13				133	<1.00	6.4	<0.001	73.2
SW-2	06/29/99	-101	410	96.5	7.27	24.5	16			<0.050	73	28.8	102	0.185	54				204	<1.00	11	0.024	199
SW-2	09/30/99	0	390	10	7.64	14.7	<3	35	<0.010	<0.050	82.1	32.8	15.6	0.11	45	<0.048		<0.010	217	<1.00	6.6	0.001	126
SW-2	12/29/99	-14	590	1.39	7.1	1.8	<3			<0.5	129	79.9	17.6	<1	44				326	2.4	11	0.0029	186
SW-2	03/30/00	-62	720	5.3	7.56	5.6	<3			<0.05	116	59.9	<10	0.134	17				278	<1	9	<0.004	136
SW-2	06/22/00	-142	300	1.9	7.75	22.4	<3			<0.05	<1	26.5	25.6	0.151	15				208	<1	13	<0.004	126
SW-2	09/21/00	17	473	5	7.75	18.3	<3			<0.05	91.7	22.4	<10	<0.1	39				190	<1	6.1	<0.004	134
SW-2	12/06/00	-42	329	4	8.33	0.2	<3	30	<0.01	<0.05	90	20.7	<10	<0.1	42	<0.048		<0.01	183	<1	6.1	<0.004	136
SW-2	03/22/01	16.6	400	16.3	7.16	5	<3	45	<0.01	0.262	72.6	98.4	13.9	<0.1	6.2	<0.048		<0.01	246	<1	6.8	<0.004	104
SW-2	06/05/01	-20	389	7.9	7.4	17.5	<3			0.26	101	27.9	22.4	0.126	48				239	1.18	5.7	<0.004	154
SW-2	09/25/01	129	427	6.2	7.84	18.5	<3			<0.1	76.6	26.9	<10	<0.1	46.8				194	1.78	4.4	<0.004	130
SW-2	12/04/01	80	390	14.1	7.14	8	<3			0.212	80.3	24.9	<10	<0.1	49.7				216	<1	3.5	<0.004	152
SW-2	09/11/02	73.2	309	10.04	7.7	21	<3	20	<0.01	<0.1	84.6	18.4	<10	<0.1	35.6	<0.048		<0.005	216	<1	4.4	<0.004	124
SW-2	06/24/03	65	357	11	8.27	22	<3	25	<0.01	0.22	95.3	25.9	<10	0.595	35.4	0.066		<0.005	205	2.35	6.1	<0.004	122
SW-2	03/31/04	190	433	24	6.86	9.5	10	88	<0.01	<0.1	110	55	23	<0.03	9.4	<0.5		<0.01	230	0.47	8	0.0059	100
SW-2	12/10/04	130	339	8	7.11	3.9	<4	500	<0.01	0.043	120	39	22	0.032	11	<0.5		<0.01	150	0.28	6.9	<0.002	120
SW-2	9/27/2005	-60	323	34	6.76	15.2	23	280	<0.01	<0.1	120	27	52	1	5.5	<0.5		<0.01	200	2.8	12	<0.002	120
SW-2	6/27/2006	280	684	14	7.27	20.5	<4	500	<0.01	<0.02	220	97	41	0.1	3	<0.5		<0.01	450	1.1	16	<0.002	260
SW-2	9/25/2007	255	289	0	8.2	19.3	<4	20	<0.01	<0.1	120	24	30										

TABLE 7 - HISTORICAL SURFACE WATER ANALYTICAL DATA - INORGANIC AND METAL PARAMETERS

Monitoring Well	Date Sampled	Al mg/l	Sb mg/l	As mg/l	Ba mg/l	Be mg/l	Cd mg/l	Ca mg/l	Cr mg/l	Cu mg/l	Fe mg/l	Pb mg/l	Mg mg/l	Mn mg/l	Hg mg/l	Ni mg/l	K mg/l	Se mg/l	Ag mg/l	Na mg/l	Tl mg/l	Zn mg/l
Units																						
Class GA Standard or Guidance Value		0.1			1	*	*		*	*	0.3	*			0.007	*		0.0046	0.0001		0.008	
SW-1	05/13/92	0.059	<0.0357	<0.005	0.0578	<0.0013	<0.0038	38.1	<0.0039	<0.0039	0.472	<0.003	10.6	0.287	<0.0002	<0.0306	1.19	<0.005	<0.0099	21.8	<0.005	0.0118
SW-1	06/12/97	1.8	<0.06	<0.01	<0.2	<0.01	<0.01	89	<0.01	<0.02	5.2	0.012	19	2	<0.0002	<0.01	1.9	<0.05	<0.01	28	<0.03	0.2
SW-1	08/27/97							56			2.3	<0.01	14	0.35			2.1			40		
SW-1	11/18/97							42			0.39	<0.01	12	0.024			3.4			39		
SW-1	4/28/98							49			1.3	<0.01	14	0.45			1.8			47		
SW-1	06/23/98	0.42	<0.06	<0.01	<0.2	<0.01	<0.01	45	<0.01	<0.02	1.3	<0.01	13	0.25	<0.0002	<0.01	1.2	<0.05	<0.01	38	<0.03	0.098
SW-1	11/25/98							52			0.61	0.016	14	0.12			<1			50		
SW-1	02/17/99							70			60	0.073	8.6	7.8			4.2			120		
SW-1	03/29/99							18.3			0.138	<0.001	4.81	<0.005			0.871			11.9		
SW-1	06/29/99							50.1			1.14	0.002	13.7	0.576			2			37.4		
SW-1	09/30/99	0.242	<0.050	0.002	0.09	<0.002	<0.005	56.5	<0.010	<0.017	0.507	<0.001	14	0.259	<0.0002	<0.012	4.14	<0.002	<0.010	58.1	<0.001	<0.020
SW-1	12/29/99						<0.005	49.9			0.24	<0.01	14.5	0.062			2.23			40.7		
SW-1	03/30/00						0.007	37.3			0.17	0.002	10.6	0.008			1.56			38		
SW-1	06/22/00						<0.005	45.4			0.416	0.003	12.5	0.158			1.16			29		
SW-1	09/21/00						<0.005	45.3			0.553	0.002	12.8	0.316			3.36			31.3		
SW-1	12/06/00	0.208	<0.050	<0.002	0.059	<0.002	<0.005	48.2	<0.010	<0.017	0.421	0.003	14.6	0.067	<0.0002	<0.012	2.4	<0.002	<0.010	39.4	<0.001	0.029
SW-1	03/22/01	0.426	<0.050	<0.002	0.029	<0.002	<0.005	21.4	<0.010	<0.017	0.904	0.006	5.77	0.065	<0.0002	<0.012	1.42	<0.002	<0.010	18.8	<0.001	0.037
SW-1	06/05/01						<0.005	50.8			0.372	0.002	14.2	0.088			1.17			38.8		
SW-1	09/25/01						<0.005	49.3			0.561	0.007	12.2	0.368			1.91			77.2		
SW-1	12/04/01						<0.005	45.8			0.136	0.002	13.1	0.028			3.07			48.3		
SW-1	09/11/02	0.412	<0.050	0.006	0.104	<0.002	<0.005	52.6	<0.002	<0.017	0.701	<0.001	14.2	0.258	<0.0002	<0.012	2.85	<0.001	<0.010	70.5	<0.001	<0.020
SW-1	06/24/03	<0.075	<0.050	0.001	0.035	<0.002	<0.001	40.6	<0.002	<0.017	0.52	<0.001	11.1	0.064	<0.0002	<0.012	0.705	<0.001	<0.001	28.7	<0.001	<0.020
SW-1	03/31/04	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	30	<0.01	<0.01	0.16	<0.01	8.3	0.021	<0.0002	<0.01	2.1	<0.01	<0.01	35	<0.01	0.032
SW-1	12/10/04	<0.1	<0.01	<0.01	0.037	<0.01	<0.01	33	<0.01	<0.01	0.27	<0.01	10	0.02	<0.0002	<0.01	2.1	<0.01	<0.01	32	<0.01	0.015
SW-1	09/27/05	0.16	<0.01	<0.01	<0.2	<0.01	<0.01	46	<0.01	<0.01	0.4	<0.01	12	0.6	<0.00002	<0.01	5.2	<0.01	<0.01	140	<0.01	0.022
SW-1	06/27/06	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	60	<0.01	<0.01	0.42	<0.01	17	0.38	<0.0002	<0.01	1.1	0.046	<0.01	57	<0.01	0.011
SW-1	09/25/07	0.77	<0.01	0.01	<0.2	<0.01	<0.01	49	<0.01	<0.01	1.4	<0.01	18	0.25	<0.0002	<0.01	4.2	<0.01	<0.01	83	<0.01	0.016
SW-1	12/16/08	0.3	<0.01	<0.01	<0.2	<0.01	<0.01	30	<0.01	<0.01	0.34	<0.01	8.3	0.02	<0.0002	<0.01	1.6	<0.01	<0.01	33	<0.01	<0.01
SW-1	06/10/10	<0.20	<0.02	<0.02	0.06	<0.02	<0.02	43	<0.02	<0.02	1	0.03	12	0.18	<0.001	<0.02	1	<0.02	<0.02	48	<0.02	<0.02
SW-1	06/14/11	<0.20	<0.02	<0.02	0.07	<0.02	<0.02	48	<0.02	<0.02	1.9	0.02	13	0.73	<0.001	<0.02	1.7	<0.02	<0.02	39	<0.01	<0.02
SW-1	09/20/12	Sampling Location Dry																				
SW-1	11/26/13	<0.20	<0.02	<0.02	0.041	<0.02	<0.02	46	<0.02	<0.02	0.3	<0.02	13	0.07	<0.0008	<0.02	2.7	<0.02	<0.02	44	<0.01	<0.02
SW-1	04/21/15	0.3	<0.012	<0.02	0.056	<0.02	<0.02	38.5	<0.02	<0.02	0.94	<0.02	10.4	0.13	<0.0002	<0.02	7.16	<0.02	<0.02	51	<0.010	<0.02
SW-2	05/13/92	0.0789	0.0456	<0.005	<0.0601	<0.0013	<0.0038	44	0.0052	0.0052	0.409	<0.003	11.8	0.146	<0.0002	<0.0306	1.52	<0.005	<0.00099	26.8	<0.005	0.0051
SW-2	06/12/97	<0.1	<0.06	<0.01	<0.2	<0.01	<0.01	38	<0.01	<0.02	0.33	<0.01	9.2	0.18	<0.0002	<0.01	1.2	<0.05	<0.01	10	<0.03	0.5
SW-2	08/27/97							33			0.35	<0.01	7.9	0.18			1.4			8.7		
SW-2	11/18/97							41			0.46	<0.01	12	0.045			3.5			41		
SW-2	4/28/98							71			6.9	0.016	16	2.7			3.7			51		
SW-2	06/23/98	3.8	<0.06	<0.01	<0.2	<0.01	<0.01	39	<0.01	<0.02	7.3	0.013	11	1.5	<0.0002	<0.01	2.1	<0.05	<0.01	15	<0.03	0.15
SW-2	11/25/98							51			0.62	0.022	14	0.3			<1			49		
SW-2	03/29/99							20.3			0.411	<0.001	5.46	0.006			0.992			13.3		
SW-2	06/29/99							54.3			5.42	0.007	15.5	0.826			5.35			15.4		
SW-2	09/30/99	0.347	<0.050	<0.002	0.046	<0.002	<0.005	35	<0.010	<0.017	0.527	<0.001	9.32	0.083	<0.0002	<0.012	2.25	<0.002	<0.010	19.9	<0.001	<0.020
SW-2	12/29/99						<0.005	50.5			0.188	<0.01	14.6	0.04			2.15			42.5		
SW-2	03/30/00						0.006	37.1			0.189	<0.001	10.5	0.007			1.51			36.4		
SW-2	06/22/00						<0.005	36			0.522	0.004	8.7	0.276			1.71			18.9		
SW-2	09/21/00						<0.005	38.3			0.179	<0.001	9.32	0.074			1.79			13.3		
SW-2	12/06/00	0.105	<0.050	<0.002	0.03	<0.002	<0.005	39.6	<0.010	<0.017	0.159	0.001	9.13	0.038	<0.0002	<0.012	1.28	<0.002	<0.010	11.7	<0.001	0.029
SW-2	03/22/01	0.585	<0.050	<0.002	0.064	<0.002	<0.005	31.7	0.014	<0.017	1.42	0.006	5.99	0.455	<0.0002	<0.012	1.99	<0.002	<0.010	63	<0.001	0.052
SW-2	06/05/01						<0.005	45.2			0.182	0.002	10.1	0.179			1.32			16		
SW-2	09/25/01						<0.005	37.5			0.235	0.006	8.95	0.105			1.08			12.2		
SW-2	12/04/01						<0.005	44.5			0.124	0.002	9.94	0.023			1.39			13.4		
SW-2	09/11/02	0.12	<0.050	0.001	0.043	<0.002	<0.005	35.1	<0.002	<0.017	0.231	0.001	8.89	0.143	<0.0002	<0.012	1.21	<0.001	<0.010	12	<0.001	<0.020
SW-2	06/24/03	0.15	<0.050	<0.001	0.019	<0.002	<0.001	35.5	<0.002	<0.017	0.213	0.001	8.16	0.097	<0.0002	<0.012	1.05	<0.001	<0.001	13.2	<0.001	<0.020
SW-2	03/31/04	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	29	<0.01	<0.01	0.14	<0.01	8	0.019	<0.0002	<0.01	1.9	0.014	<0.01	32	<0.01	0.015
SW-2	12/10/04	0.16	<0.01	<0.01	0.04	<0.01	<0.01	33	<0.01	<0.01	0.28	<0.01	10	0.022	<0.0002	<0.01	2	<0.01	<0.01	28	<0.01	<0.01
SW-2	9/27/2005	0.1	<0.01	<0.01	<0.2	<0.01	<0.01	33	<0.01	<0.01	0.34	<0.01	9.1	1.9	<0.0002	<0.01	6.2	<0.01	<0.01	15	<0.01	0.022
SW-2	6/27/2006	0.28	<0.01	<0.01	<0.2	<0.01	<0.01	73	<0.01	<0.01	1.1	<0.01	18	0.91	<0.0002	<0.01	6.2	0.057	<0.01	65	<0.01	0.027
SW-2	9/25/2007	0.42	<0.01	<0.01	<0.2	<0.01	<0.01	38	<0.01	<0.01	0.81	<0.01	10	0.28	<0.0002	<0.01	1.9	<0.01	<0.01	16	<0.01	0.021
SW-2	12/16/2008	0.56	<0.01	<0.01	<0.2	<0.01	<0.01															

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-1S										
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004
EPA 8260												
Acetone	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5
Benzene	ug/l	<10	<10	<5	<5	<0.7	<0.7	<0.7	<0.7	<0.7	<5	<1
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Chlorobenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Chloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
2-chloroethylvinylether	ug/l											
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Dichlorodifluoromethane	ug/l											
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1
1,2-Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1
1,3 -Dichlorobenzene	ug/l											
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Ethylbenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1
Methylene Chloride	ug/l	<10	6	<10	<10	<5	<5	<5	<5	<5	<10	<2
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	-	<5	<1
Toluene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1
Total Xylene	ug/l	<10	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1

NA - Not Analyzed

Bold & Italics - Substances detected above method detection limits

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-2SR																
Sample Collection Date		6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																		
Acetone	ug/l	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<5	<5	<0.7	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l													<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l													<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l													<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		DGC-3S																		
Sample Collection Date		5/6/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/10/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																				
Acetone	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	<10	<5	<5	<0.7	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	2	12	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-4SR																		
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																				
Acetone	ug/l	<10	<10	<40	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	21	<10	<50	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<25	<5.0	<5	<5.0
Benzene	ug/l	4	6	<20	5.4	6	6	4	<0.7	6	5.8	6	8.6	<1	7.2	7.4	12	9.7	6.3	6.1
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<10	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<40	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<25	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	14	23	42	38	68	92	39	<5	48	45	47	66	47	64	61	79	88	45	34
Chloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<10	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<10	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<25	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<10	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<5.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<5.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	1.4	2.3	1.4	1.8	1.3	<5.0	2.9	1.3	1.3
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	7	7	3	<2	6	<5	5.2	6.8	4.8	5.5	2.4	79	9.1	6.1	4.8
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<25	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<5.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<25	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<5.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	<10	1	<40	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<25	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<25	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<25	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<20	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<5.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<15	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		DGC-5																		
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																				
Acetone	ug/l	<10	<10	<40	<10	39	<25	<25	<25	<25	15	24	<10	<10	25	13	<10	16	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	2	4	<20	<5	4	<0.7	<0.7	3	<0.7	<5	<1	3.6	1.3	<1	<0.7	<0.7	1.8	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<40	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	4	8	<20	6.7	12	<5	<5	7	<5	<5	<1	6.6	2.9	<1	<1.0	<1.0	2.9	1.2	<1.0
Chloroethane	ug/l	55	240	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	4	<2	<2	2	<2	<5	<1	1.5	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	1	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	2	8	<40	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	1	<20	12	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<20	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	10	19	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-6SR																		
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																				
Acetone	ug/l	12	<10	<40	<10	30	<25	27	<25	<25	<10	<10	<10	<10	<10	<10	<10	15	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	3	<20	<5	4	2	3	2	3	<5	1.5	1.4	1.8	2	1.9	1.7	1.1	<1	1.2
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<40	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	<10	2	<20	<5	8	<5	5	<5	5	<5	1.9	<1	3.2	3.8	2.8	3.1	<1.0	<1	1.5
Chloroethane	ug/l	<10	4	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	4.5	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	3	<20	<5	<5	<5	<5	<5	<5	<5	1.1	4	1.8	<1	2.5	2	4.6	1.0	1.3
1,2-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	1.6	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	8.4	3.2	1.3	2.8	1.6	4	<1	1.1
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	4	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	2	3	<40	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	3	<40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	1.4	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<20	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	3	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-7S																	
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	11/26/2013	4/21/2015
EPA 8260																			
Acetone	ug/l	<10	29	19	<10	33	<25	<25	<25	<25	<10	20	<10	13	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	3	<5	<5	<0.7	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Chlorobenzene	ug/l	<10	5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	19	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	<10	<10	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	1	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	63	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-8S																			
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/10/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015	
EPA 8260																					
Acetone	ug/l	<10	<10	<10	<10	62	<25	<25	<25	<25	<10	120	<10	<10	<10	<10	<10	<10	<10	<10	
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0	
Benzene	ug/l	<10	<10	<5	<5	1	<0.7	<0.7	<0.7	<0.7	<5	<1	1.6	<1	<1	<0.7	<0.7	<0.7	<1	<1.0	
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0	
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0	
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0	
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0	
Chlorobenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Chloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0	
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0	
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0	
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0	
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0	
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0	
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Ethylbenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0	
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0	
Methylene Chloride	ug/l	<10	5	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0	
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Toluene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0	
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0	
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0	
Total Xylene	ug/l	<10	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0	

NA - Not Analyzed

Bold & Italic - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-9S									
Sample Collection Date		5/5/1992	12/15/1992	6/24/2003	3/31/2004	12/10/2004	6/27/2006	6/9/2010	6/14/2011	11/26/2013	4/21/2015
EPA 8260											
Acetone	ug/l	<10	<10	<25	<10	<10	<10	<10	<50	<10	<10
Acrylonitrile	ug/l	NA	NA	<20	<5	<5	<20	<5.0	<25	<5	<5.0
Benzene	ug/l	13	13	6	10	9.7	<1	14	18	14	8.7
Bromochloromethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<25	<10	<10	<10	<5.0	<25	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Chlorobenzene	ug/l	130	89	15	32	33	<1	50	57	66	32
Chloroethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0
2-chloroethylvinylether	ug/l							<5.0	<25	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Dichlorodifluoromethane	ug/l							<2.0	<10	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	<20	<5	<1	<1	<1.0	<5.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l							<1.0	<5.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	<2	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	<2	<5	1.5	<1	1.5	<5.0	3.6	3.5
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	<5	<5	<5	<5	<5.0	<25	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	<1	<1	<1.0	<5.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	<1	<1	<1.0	<5.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Ethylbenzene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<5.0	<25	<5	<5.0
Iodomethane	ug/l	NA	NA	<5	<5	<1	<5	<1.0	<5.0	<2	<4.0
Methylene Chloride	ug/l	<10	1	<5	<10	<2	<1	<5.0	<25	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<5.0	<25	<5	<5.0
Styrene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	-	<5	<1	<1	<1.0	<5.0	<1	<1.0
Toluene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	-	<5	<1	<1	<1.0	<5.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	<5	<10	<5	<5	<5.0	<25	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<2	<5	<1	<1	<1.0	<5.0	<1	<2.0
Total Xylene	ug/l	6	7	<5	8.4	5.6	<1	<3.0	<15	1.5	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-10S																		
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/10/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																				
Acetone	ug/l	28	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	6	9	<5	<5	<0.7	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	100	110	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	NA	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	7	12	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	<10	6	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	2	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	1200	1100	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italic - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		MW-11S																
Sample Collection Date		5/5/1992	12/15/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/10/2010	6/14/2011	11/26/2013	4/21/2015
EPA 8260																		
Acetone	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5	<5.0
Benzene	ug/l	3	<10	<5	<5	1	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromofom (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Chlorobenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	21	14	<5	<5	9	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	NA	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	NA	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	2	2	<10	<10	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	NA	<5	NA	NA	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	2.5	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	NA	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	NA	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<10	<5	<5	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	<10	NA	<5	NA	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		DGC-2D																	
Sample Collection Date		5/6/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																			
Acetone	ug/l	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	<5	<5	<0.7	4	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	2	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<5	<5	<5	<5	<5	8	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	1	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<2	<5.0
Vinyl Chloride	ug/l	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		DGC-3D																	
Sample Collection Date		5/6/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	4/1/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/10/2010	6/14/2011	9/20/2012	11/26/2013	4/22/2015
EPA 8260																			
Acetone	ug/l	12	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	<5	<5	<5	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3-Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	<10	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	<5	<5	<5	<5	-	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<1	<5.0
Vinyl Chloride	ug/l	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 8 - HISTORICAL GROUNDWATER ANALYTICAL DATA - ORGANIC PARAMETERS

		DGC-6D																	
Sample Collection Date		5/6/1992	6/12/1997	6/23/1998	9/30/1999	12/6/2000	3/22/2001	9/11/2002	6/24/2003	3/31/2004	12/10/2004	9/27/2005	6/27/2006	12/16/2008	6/9/2010	6/14/2011	9/20/2012	11/26/2013	4/21/2015
EPA 8260																			
Acetone	ug/l	21	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	NA	<20	<5	<5	<20	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5.0	<5	<5.0
Benzene	ug/l	<10	<5	<5	<5	<0.7	<0.7	<0.7	<0.7	<5	<1	<1	<1	<1	<0.7	<0.7	<0.7	<1	<1.0
Bromochloromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromodichloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Bromomethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<2.0	<2.0	<2.0	<1	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<10	<5.0
Carbon Disulfide	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Carbon Tetrachloride	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<2.0	<1	<1.0
Chlorobenzene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Chloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<4	<2.0	<2.0	<2.0	<1	<3.0
Chloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<2.0	<2.0	<2.0	<1	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromochloromethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	NA	NA	NA	NA	<5	<20	<5	<1	<1	<1	<10	<1.0	<1.0	<1.0	<5	<1.0
1,2-Dibromoethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Dibromomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,3-Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	NA	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	NA	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5.0	<5.0	<5.0	<5	<5.0
1,1-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1-Dichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,2-Dichloropropane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
cis-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<2	<1.0	<1.0	<1.0	<1	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Ethylbenzene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Iodomethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<5	<5	<1.0	<1.0	<1.0	<2	<4.0
Methylene Chloride	ug/l	2	<10	<10	<5	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<5.0	<2	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5	<5.0
Styrene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	NA	<5	NA	NA	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Tetrachloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Toluene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,1-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
1,1,2-Trichloroethane	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichloroethene	ug/l	<10	<5	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Trichlorofluoromethane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0
Vinyl Acetate	ug/l	NA	NA	NA	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5.0	<5.0	<5.0	<1	<5.0
Vinyl Chloride	ug/l	<10	<5	<5	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<2.0
Total Xylene	ug/l	<10	NA	<5	NA	<5	<5	<5	<5	<5	<1	<1	<1	<1	<3.0	<3.0	<3.0	<1	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 9 - 2015 QUARTERLY LANDFILL GAS VENT MONITORING

<i>Date Monitored</i>	<i>4/30/2015</i>	<i>6/17/2015</i>	<i>9/17/2015</i>	<i>11/2015</i>	<i>4/30/2015</i>	<i>6/17/2015</i>	<i>9/17/2015</i>	<i>11/2015</i>	<i>4/30/2015</i>	<i>6/17/2015</i>	<i>9/17/2015</i>	<i>11/2015</i>	<i>4/30/2015</i>	<i>6/17/2015</i>	<i>9/17/2015</i>	<i>11/2015</i>
GAS VENT	%LEL	%LEL	%LEL	%LEL	CO (ppm)	CO (ppm)	CO (ppm)	CO (ppm)	H₂S (ppm)	H₂S (ppm)	H₂S (ppm)	H₂S (ppm)	PID (ppm)	PID (ppm)	PID (ppm)	PID (ppm)
GV-1	0.0	0.0	0.0	To	0.0	0.0	0.0	To	0.0	0.0	0.0	To	0.0	0.0	0.0	To
GV-2	0.0	0.0	0.0	Be	0.0	0.0	0.0	Be	0.0	0.0	0.0	Be	0.0	0.0	0.0	Be
GV-3	0.0	0.0	>100	Completed	0.0	0.0	0.0	Completed	0.0	0.0	0.0	Completed	1.0	1.0	1.0	Completed
GV-4	>100	>100	0.0	in 11/2015	0.0	0.0	0.0	in 11/2015	0.0	0.0	0.0	in 11/2015	0.0	0.0	0.0	in 11/2015
GV-5	0.0	>100	0.0		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
GV-6	>100	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
GV-7	0.0	0.0	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-8	0.0	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-9	0.0	>100	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-10	>100	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-11	0.0	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-12	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-13	0.0	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-14	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-15	>100	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
GV-16	>100	0.0	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-17	>100	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-18	0.0	> 100	>100		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
GV-19	0.0	0.0	>100		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
GV-20	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-21	0.0	> 100	>100		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
GV-22	0.0	>100	>100		0.0	0.0	0.0		0.0	0.0	0.0		1.0	1.0	1.0	
North Boundary	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
East Boundary	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
South Boundary	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	
West Boundary	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	

APPENDIX A

**LABORATORY ANALYTICAL DATA, CHAIN-OF-CUSTODY
DOCUMENTATION, AND SAMPLE CHARACTERIZATION SHEETS**



Certified
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MONITORING WELL SAMPLING FIELD LOG
Field Parameters

7280 Caswell Street
North Syracuse, New York 13212
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: C & S Engineers

PERSONNEL: J. V. Lab / M. B. C. H.

DATE: 4-21-05

PROJECT: Town of Clay Landfill - Post Closure Monitoring Event

WEATHER: Sunny, Breezy, Cool

WELL NUMBER	TIME	FINAL DEPTH TO WATER	pH	TEMPERATURE (°C)	CONDUCTIVITY (ms/cm)	TURBIDITY (NTU)	EH/Redox (mV)	DISSOLVED OXYGEN (ppm)
~~MW-1SR~~ DGC-6	12:20	5.24	7.14	9.25	0.602	0.0	-50	
MW-2SR	14:45	1.39'	7.74	7.72	1.06	0.0	50	
DGC-3S	15:45	3.24	7.22	7.77°	0.638	0.0	54	
MW-4SR	13:45	9.75	6.90	8.94°	2.01	0.0	-36	
~~DOGS~~								
MW-6SR	13:05	3.91	7.12	8.10°	0.639 ^{1.46}	0.0	-278	
MW-7S	12:37	5.56	7.30	8.60°	0.639	0.0	-27	
MW-8S	12:50	3.56	7.34	7.76°	1.49	0.0	-99	
MW-9S	13:30	12.36	7.23	9.43°	2.54	0.0	66	
MW-10SR	14:15	2.57	7.89	9.49°	0.692	0.0	13	



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MONITORING WELL SAMPLING FIELD LOG

Field Parameters

7280 Caswell Street
North Syracuse, New York 13212
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: C & S Engineers

PERSONNEL:

DATE:

4-21-15

PROJECT: Town of Clay Landfill - Post Closure Monitoring Event

WEATHER:

Overcast

WELL NUMBER	TIME	FINAL DEPTH TO WATER	pH	TEMPERATURE (°C)	CONDUCTIVITY (ms/cm)	TURBIDITY (NTU)	EH/Redox (mV)	DISSOLVED OXYGEN (ppm)
MW-11SR	12:00	1.52'	6.88	8.68	0.878	0.0	-19	
DGC-2D	12:10	12.07	7.39	9.27	0.440	0.0	-61	
DGC-3D (4-21-15)	11:25	19.82	~~7.73~~ 8.06	~~7.75~~ 9.75	0.264	0.0	76	
DGC-6D	13:15	4.80'	8.01	7.72	0.277	0.0	8	
QC:								
SW-1	16:10	X	7.47	14.33	0.513	0.0	40	8.43
SW-2	11:30	X	7.31	9.53°C	0.533	0.0	-31	7.70



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MONITORING WELL SAMPLING FIELD LOG
Well Purging/Bailing

7280 Caswell Street
North Syracuse, New York 13212
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: C & S Engineers

PERSONNEL: William / [unclear]

DATE: 4-20-15

PROJECT: Town of Clay Landfill - Post Closure Monitoring Event

WEATHER: Bloody / Sunny 65°F

WELL NUMBER	WELL DEPTH*	INITIAL DEPTH TO WATER	WELL VOLUME (GALLONS)	GALLONS BAILED	PURGED TIME	pH	TEMP (°C)	CONDUCTIVITY (ms/cm)	COLOR NOTED	ODOR NOTED
~~MW-1SR~~										
MW-2SR	18.19'	14.6'	2.65 2.77	2.65 (Day)	~~11:40~~ 11:40	7.36 6.55	7.95 7.35°C	1.03 0.783	Clear clear/gray	organic None
DGC-3S <i>Bailed on 4/21</i>	16.81	3.15	2.19	~~6.5~~ 3 (Day)	NA	7.53	8.60°C	0.551	Clear	None
MW-4SR	20.00	9.76	1.64	5 3 (Day)	13:05 13:10	6.83	7.26°	2.03	Gray	organic Low Tide
DGC-5	15.43	5.21	1.64	5 5	11:38 11:35	7.12	9.56°C	0.443	organic	Tan 4.5 gray
MW-6SR	18.48	4.32'	2.27	9 7	10:37 10:30	6.68	7.42 6.40	0.949	Clear/Tan opaque Gray	organic
MW-7S	19.37	5.20	2.27	2.5 (Day)	11:59 11:40 - 11:50	6.55	7.35°C	0.783	Clear	organic
MW-8S	16.95	4.00	2.08	6.25 5 (Day)	11:35 12:05	6.95	7.65	1.15	Clear	organic

NOTES:

*Well Depth =
Depth to Water =
Well Volume =

Total depth of well (Provided to CES)

Depth from top of well casing to top of water (to nearest 1/100th of a foot) # of Volumes Bailed =

Well depth - depth to water x 0.16 for 2" diameter wells (volumes in gallons)

Gallons Bailed =

Total amount of water purged (in gallons)
Total amount of water purged + well volume



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MONITORING WELL SAMPLING FIELD LOG

Well Purging/Bailing

7280 Caswell Street
North Syracuse, New York 13212
Ph (315) 478-2374 Fax (315) 478-2107

CLIENT: C & S Engineers

PERSONNEL: WIKAS MALZACCHI

DATE: 4-20-15

PROJECT: Town of Clay Landfill - Post Closure Monitoring Event

WEATHER: Blaazy
overcast, soft sunny

WELL NUMBER	WELL DEPTH*	INITIAL DEPTH TO WATER	WELL VOLUME (GALLONS)	GALLONS BAILED	PURGED TIME	pH	TEMP (°C)	CONDUCTIVITY (ms/cm)	COLOR NOTED	ODOR NOTED
MW-9S	18.80'	12.36'	1.03	~~5~~ 2 (09)	~~12:50~~ 13:00	7.12	8.23	2.54	Tan	soft organic
MW-10SR	18.89'	2.35'	2.64	~~8~~ 8	~~14:20~~	7.67	7.85	0.803	clear / ~~gray~~	organic
MW-11SR	13.54'	1.81'	1.88	~~5.6~~ 4	~~15:05~~ 15:00	7.46	6.45°	0.999	clear → Gray/Cloudy	organic
DGC-2D	~~42~~ 6.55	12.11	2.91	~~24~~ 25	~~15:15~~	7.34	9.08°	0.797	orange	organic
DGC-3D	45.82	1.90	7.03	~~21~~ 20 (09)	~~13:30~~	8.32	6.35	0.263	clear/Cloudy	None
DGC-6D	40.12	4.79'	5.65	~~17~~ 17	~~12:10~~ 12:45	7.62	7.42	0.338	clear → Cloudy	None
QC:										

NOTES:

*Well Depth =

Depth to Water =

Well Volume =

Total depth of well (Provided to CES)

Depth from top of well casing to top of water (to nearest 1/100th of a foot) # of Volumes Bailed =

Well depth - depth to water x 0.16 for 2" diameter wells (volume in gallons)

Gallons Bailed =

Total amount of water purged (in gallons)

of Volumes Bailed = Total amount of water purged + well volume



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North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690443 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		04/22/15		KC	5.3	Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1436	KSH	< 4.0	mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	< 2.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1245	JDC	T < 5	units
Hexavalent Chromium	EPA 7196A	04/23/15	1107	AG	< 0.004	mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	2013	JDC	< 0.05	mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0	mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	140.	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: The method blank results associated with the BOD analysis are greater than the established limit.



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North Syracuse, NY 13212
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690444 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	< 0.10 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



**Certified
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Services, Inc.**

7280 Caswell Street
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Phone 315-478-2374
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690445 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/29/15		RRB	< 5. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	0.55 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	0.76 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



**Certified
Environmental
Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690446 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	1.68 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



**Certified
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DATE: 05/06/2015

SAMPLE NUMBER- 690447 SAMPLE ID- DGC-3D
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TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.086	mg/L
Hardness	EPA 200.7	04/24/15	AG	04/28/15		AG	203.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	7.62	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	0.32	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	46.9	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	10.3	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	20.8	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	0.31	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	7.95	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	< 0.02	mg/L



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Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 690447

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	15.8 mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	05/06/15		SA	< 0.010 mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/29/15		AG	< 0.02 mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/24/15	AG	04/28/15		AG	0.045 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690448 SAMPLE ID- DGC-3D SAMPLE MATRIX- WW
DATE SAMPLED- 04/22/15 TIME SAMPLED- 1130
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/30/15		RS	148. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690449 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/28/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/29/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690450 SAMPLE ID- DGC-3D SAMPLE MATRIX- WW
DATE SAMPLED- 04/22/15 TIME SAMPLED- 1130
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
TOTAL PHENOLS	EPA 420.1	05/03/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**



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REPORT OF ANALYSES

C & S Engineers, Inc.
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690451 SAMPLE ID- DGC-3D
DATE SAMPLED- 04/22/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 1210 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	5.3 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB LQ-	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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Page 2 of 3

CONTINUATION OF DATA FOR SAMPLE NUMBER 690451

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L



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Page 3 of 3

CONTINUATION OF DATA FOR SAMPLE NUMBER 690451

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 113 % REC
Toluene-d8 (75-125) - 98 % REC
4-Bromofluorobenzene (75-125) - 100 % REC



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7280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CLIENT NAME: C+S Engineers

ADDRESS: 409 Col Eileen Collins Blvd.

CONTACT NAME: Christen M. Craig

Syracuse, NY 13212

CES LOG NUMBERS
(INTERNAL USE DO NOT WRITE)

690443-451

Collected

Date

Time

Grab or

Comp.

Matrix

4/24/15

11:30

GW

Grab

CLIENT ID/SAMPLE LOCATION

DGC-3D

PROJECT #/NAME/PO #

Town of Clay Landfill

2015 Post-Closure Monitoring Event

CLIENT PHONE:

FAX:

CES BATCH NO: E4083

PAGE OF

Turn-Around Time: Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered next day business. Rush TAT subject to laboratory approval and surcharges.

☐ Standard ☐ 5 Working Days ☐ 3 Working Days

☐ 2 Working Days ☐ 1 Working Days

Remarks

Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

2

3

4

5

6

7

8

9

10

Preservative Code:

Size

Type

Preservative

Code:

Preservative Codes: A=Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃

G=Na₂S₂O₃ H=

I=

J=

K=

L=

M=

N=

O=

P=

Samples Collected By:

Name (Print): Paul Morzocchi

Signature: [Signature]

Company: CES

RELINQUISHED BY:

Name: Paul Morzocchi

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Name: [Signature]

Remarks:

RECEIVED BY:

Name: K. Gump

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

Samples Received in Good Condition:

☒ Yes ☐ No

Receipt Temperature: 53 °C



Certified
Environmental
Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: CES

Batch Number: <u>E4083</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK:	☒	☐	_____
(If preservation required note Lot # associated with preservative if available.)			

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421

HCl WCSP 3420 Na₂S₂O₃ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14

Field Parameters

- ☐ Static water level
- ☐ Specific Conductance
- ☐ Temperature
- ☐ Floaters or Sinkers
- ☐ pH
- ☐ Eh
- ☐ Dissolved Oxygen
- ☐ Field Observations
- ☐ Turbidity

Leachate Indicators

- ☐ Total Kjeldahl Nitrogen
- ☐ Ammonia
- ☐ Nitrate
- ☐ Chemical Oxygen Demand
- ☐ Biochemical Oxygen Demand
- ☐ Total Organic Carbon
- ☐ Total Dissolved Solids
- ☐ Sulfate
- ☐ Alkalinity
- ☐ Phenols
- ☐ Chloride
- ☐ Bromide
- ☐ Total hardness as CaCO₃
- ☐ Color
- ☐ Boron

Inorganic Parameters

- ☐ Aluminum
- ☐ Antimony
- ☐ Arsenic
- ☐ Barium
- ☐ Beryllium
- ☐ Cadmium
- ☐ Calcium
- ☐ Chromium
- ☐ Chromium (Hexavalent)
- ☐ Cobalt
- ☐ Copper
- ☐ Cyanide
- ☐ Iron
- ☐ Lead
- ☐ Magnesium
- ☐ Manganese
- ☐ Mercury
- ☐ Nickel
- ☐ Potassium
- ☐ Selenium
- ☐ Silver
- ☐ Sodium
- ☐ Thallium
- ☐ Vanadium
- ☐ Zinc

Organic Parameters

- ☐ Acetone
- ☐ Acrylonitrile
- ☐ Benzene
- ☐ Bromochloromethane
- ☐ Bromodichloromethane
- ☐ Bromoform; Tribromomethane
- ☐ Carbon Disulfide
- ☐ Carbon Tetrachloride
- ☐ Chlorobenzene
- ☐ Chloroethane; Ethyl Chloride
- ☐ Chloroform; Trichloromethane
- ☐ Dibromochloromethane; Chlorodibromomethane
- ☐ 1,2-Dibromo-3-Chloropropane: DBCP
- ☐ 1,2-Dibromoethane; Ethylene Dibromide: EDB
- ☐ o-Dichlorobenzene; 1,2-Dichlorobenzene
- ☐ p-Dichlorobenzene; 1,4-Dichlorobenzene
- ☐ trans-1,4-Dichloro-2-butene
- ☐ 1,1-Dichloroethane; Ethylene Chloride
- ☐ 1,2-Dichloroethane; Ethylene Dichloride
- ☐ 1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene Chloride
- ☐ cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene
- ☐ trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene
- ☐ 1,2-Dichloropropane; Propylene Dichloride
- ☐ cis-1,3-Dichloropropene
- ☐ trans-1,3-Dichloropropene
- ☐ Ethyl Benzene
- ☐ 2-Hexanone; Methyl Butyl Ketone
- ☐ Methyl Bromide; Bromomethane
- ☐ Methyl Chloride; Chloromethane
- ☐ Methylene Bromide; Dibromomethane
- ☐ Methylene Chloride; Dichloromethane
- ☐ Methyl Ethyl Ketone; MEK; 2-Butanone
- ☐ Methyl Iodide; Iodomethane
- ☐ 4-Methyl-2-Pentanone; Methyl Isobutyl Ketone
- ☐ Styrene
- ☐ 1,1,1,2-Tetrachloroethane
- ☐ 1,1,2,2-Tetrachloroethane

- ☐ Tetrachloroethylene; Tetrachloroethene; Perchloroethylene
- ☐ Toluene
- ☐ 1,1,1-Trichloroethane; Methylchloroform
- ☐ 1,1,2-Trichloroethane
- ☐ Trichloroethylene; Trichloroethene
- ☐ Trichlorofluoromethane; CFC-11
- ☐ 1,2,3-Trichloropropane
- ☐ Vinyl Acetate
- ☐ Vinyl Chloride; Chloroethene
- ☐ Xylenes

NOTES

1. Any Floaters or Sinkers found must be analyzed separately for Baseline Parameters
2. Dissolved Oxygen analysis is required for surface water only
3. Field Observations include any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690283 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.14	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	451.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.31	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.24	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	87.7	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.01	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	56.3	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.12	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	16.2	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690283

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	71.6	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.028	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690284 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.034	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	E 353.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.95	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.13	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	E 102.	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.93	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	23.8	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.17	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	17.0	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690284

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	10.4	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690285 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.67	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	562.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	3.11	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.63	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	140.	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	18.3	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	51.5	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.65	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.026	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	76.4	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690285

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	135.	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.022	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690286 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	< 0.02	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	294.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.45	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.25	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	90.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	5.46	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	16.6	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.87	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	18.3	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690286

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	< 5.0	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690287 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.53	mg/L
Hardness	EPA 200.7			04/28/15		AG	653.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	9.7	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.12	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.47	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	144.	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	25.8	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	71.3	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.70	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.044	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	26.4	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690287

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	117.	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.044	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690288 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	< 0.02	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	361.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.20	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.20	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	120.	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	10.6	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	15.0	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.32	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	11.1	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690288

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	< 5.0	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690289 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15	AG	0.38	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15	AG	371.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	1.21	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15	SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	0.11	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	0.27	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15	AG	68.2	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	7.47	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15	AG	48.7	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	0.24	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15	AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15	AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15	AG	10.3	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15	AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15	AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690289

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	184. mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010 mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02 mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690290 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.85	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	417.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.24	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.052	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.11	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	78.8	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	5.08	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	53.6	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.092	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.034	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	72.8	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690290

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	E 201.	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690291 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.15	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	334.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.69	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.14	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	52.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	2.07	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	49.4	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.093	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	18.4	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690291

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	29.1	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690292 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.32	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	436.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.66	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.23	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	96.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	2.80	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	47.5	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.47	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	16.7	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690292

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	76.7	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690293 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.066	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	S+ 212.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.20	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.27	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	S+ 48.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	S+ 2.14	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	22.2	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.12	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	19.0	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690293

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	12.3	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690294 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.034	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	172.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.08	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.15	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	39.7	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	1.31	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	17.6	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.089	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	18.2	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 690294

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	7.65	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690295 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	< 0.02	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	139.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.30	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.056	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	38.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.94	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	10.4	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.13	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	7.16	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 690295

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	51.0	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690296 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	0.047	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	298.	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.43	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.012	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.11	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	90.5	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	2.39	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	17.5	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	0.26	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	< 0.0002	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	6.64	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	< 0.02	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690296

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	8.78	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	< 0.010	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	< 0.02	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690297 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	104%	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	*NA	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	118%	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	100%	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	101%	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	92%	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	104%	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	108%	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	*NA	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	105%	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	93%	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	102%	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	*NA	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	93%	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	112%	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	100%	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	97%	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	94%	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	89%	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	95%	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	89%	mg/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690297

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	90%	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	104%	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	99%	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	85%	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.

*NA – Not Applicable



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/06/2015

SAMPLE NUMBER- 690298 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total	EPA 200.7			04/29/15		AG	106%	mg/L
Hardness	EPA 200.7	04/22/15	AG	04/28/15		AG	*NA	mg/L
Aluminum, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	122%	mg/L
Antimony, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	99%	mg/L
Arsenic, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	103%	mg/L
Barium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	93%	mg/L
Beryllium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	105%	mg/L
Cadmium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	109%	mg/L
Calcium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	*NA	mg/L
Chromium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	106%	mg/L
Cobalt, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	94%	mg/L
Copper, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	103%	mg/L
Iron, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	*NA	mg/L
Lead, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	94%	mg/L
Magnesium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	128%	mg/L
Manganese, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	102%	mg/L
Mercury, Total (Hg)	EPA 245.1			04/29/15		AG	97%	mg/L
Nickel, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	95%	mg/L
Potassium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	92%	mg/L
Selenium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	98%	mg/L
Silver, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/30/15		AG	90%	mg/L



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Page 2 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 690298

ANALYSIS	METHOD	SAMPLE DATE	PREP BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/28/15		AG	92%	mg/L
Thallium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	05/06/15		SA	104%	mg/L
Vanadium, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/29/15		AG	100%	mg/L
Zinc, Total (Prep 3005A)	EPA 6010C	04/22/15	AG	04/24/15		AG	86%	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony and Thallium analysis performed by ELAP #11393.

*NA – Not Applicable



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North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CES BATCH NO:

PAGE

OF

Standard TAT is end of day. 10 working days after lab receipt. Samples received after 2 pm are considered
Turn-Around Time: "next day business. Rush TAT subject to laboratory approval and surcharges.

☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: C&S Engineers
CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667

ADDRESS: 499 Col. Eileen Collins Blvd.

Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

PROJECT #/NAME/PO #: Town of Clay Landfill,
2015 Post Closure Monitoring Event

Remarks

CES LOG NUMBERS

(INTERNAL USE/DO NOT WRITE)

CES LOG NUMBERS	Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION
	Date	Time			
690283	4/21/15	14:45	GW	Grab	MW-2SR
284		15:45	GW	Grab	DGC-3S
285		13:45	GW	Grab	MW-4SR
286		12:20	GW	Grab	DGC-5
287		13:05	GW	Grab	MW-6SR
288		12:37	GW	Grab	MW-7S
289		12:50	GW	Grab	MW-8S
290		13:30	GW	Grab	MW-9S
291		14:15	GW	Grab	MW-10SR
292	✓	11:00	GW	Grab	MW-11SR

Number of Containers

1	2	3	4	5	6	7	8	9	10
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								
12	x								

Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

2 Metals

Preservative Codes: A=Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃
G=Na₂S₂O₃ H=

Preservative Code: NA

Sample bottle: Type NA Size NA

Samples Collected By:

Name (Print): Bu/Moravich

Signature: [Signature]

Company: CFS

Remarks:

RELINQUISHED BY:

Name: Bu/Moravich

Signature: [Signature]

Name:

Signature:

Date 4/21/15

Time 17:20

RECEIVED BY:

Name:

Signature:

Name: KC Crump

Signature: [Signature]

Samples Received in Good Condition: ☒ Yes ☐ No

Receipt Temperature: 0.7288



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Services, Inc.

7280 Caswell St. (Harcourt Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CHAIN OF CUSTODY RECORD (SEE BACK FOR TERMS & CONDITIONS)

CES BATCH NO: E4057 PAGE OF

Turn-Around Time: ☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: **C&S Engineers** CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667

ADDRESS: **499 Col. Eileen Collins Blvd.
Syracuse, NY 13212**

CONTACT NAME: **Christen M. Craig**

PROJECT #/NAME/PO #: **Town of Clay Landfill,
2015 Post Closure Monitoring Event**

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)		Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION										Remarks
		Date	Time			1	2	3	4	5	6	7	8	9	10	
690293	4/24/15	15:00	GW	Grab	DGC-2D	12	x									
294		13:15	GW	Grab	DGC-6D	12	x									
295		13:25	GW	Grab	QA/QC	12	x									
296		16:10	GW	Grab	SW-1	12	x									
297		11:30	GW	Grab	SW-2	12	x									
298					DGC-2D MS											
					DGC-2D MSD											
					4/22/15											

Parameter and Method:		Sample bottle:		Preservative Code:	Remarks:
		Type	Size		
1	6 NYCRR Part 360 Baseline (See Attached List)	NA	NA	NA	
2					
3					
4					
5					
6					
7					
8					
9					
10					
Samples Received in Good Condition:					

Preservative Codes: A= Unpreserved B=H ₂ SO ₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO ₃ G=Na ₂ S ₂ O ₃ H= _____ I= _____			
Samples Collected By:			
Name (Print): <u>Bob Morozich</u>			
Signature: <u>[Signature]</u>			
Company: <u>CES</u>			

RELINQUISHED BY:		Date	Time	RECEIVED BY:
Name: <u>Bob Morozich</u>		<u>4/21/15</u>	<u>17:20</u>	
Signature: <u>[Signature]</u>				
Name: _____				
Signature: _____				
Name: _____				
Signature: _____				
Name: <u>K C V u a r</u>		<u>4/21/15</u>	<u>09:34</u>	
Signature: <u>[Signature]</u>				



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Sample Receiving Checklist

Client Name: CES

Batch Number: E4057 Yes No If No Explain:

1. Proper Full and Complete Documentation: ☒ ☐ _____

2. Appropriate Sample Containers: ☒ ☐ _____

3. Adequate Sample Volume: ☒ ☐ _____

4. Hold Time(OK): ☒ ☐ _____

5. Proper Sample Labeling: ☒ ☐ _____

6. Sample Temperature: ☒ ☐ _____

7. Preservation OK: ☒ ☐ See below
(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence added HNO3 to adjust
pH of metals to 4.5R + 9S 4/22/15 @ 1140 KC

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690347 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690347

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690347

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 108 % REC
Toluene-d8 (75-125) - 101 % REC
4-Bromofluorobenzene (75-125) - 103 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690348 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690348

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690348

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 115 % REC

Toluene-d8 (75-125) - 104 % REC

4-Bromofluorobenzene (75-125) - 107 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690349 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	6.1 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	34 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690349

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	4.8	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	1.3	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690349

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 109 % REC

Toluene-d8 (75-125) - 99 % REC

4-Bromofluorobenzene (75-125) - 102 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690350 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ-< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ-< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690350

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690350

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 112 % REC
Toluene-d8 (75-125) - 100 % REC
4-Bromofluorobenzene (75-125) - 103 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690351 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	1.2 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	1.5 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	1.3 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690351

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	1.1 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690351

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 127 % REC

Toluene-d8 (75-125) - 105 % REC

4-Bromofluorobenzene (75-125) - 112 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690352 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690352

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690352

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 104 % REC
Toluene-d8 (75-125) - 100 % REC
4-Bromofluorobenzene (75-125) - 103 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690353 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690353

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690353

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 129 % REC
Toluene-d8 (75-125) - 103 % REC
4-Bromofluorobenzene (75-125) - 112 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690354 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	8.7 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	32 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ-< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ-< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690354

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	3.5 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690354

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 113 % REC
Toluene-d8 (75-125) - 92 % REC
4-Bromofluorobenzene (75-125) - 95 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690355 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/23/15		RRB	
Acetone	EPA 8260C	04/23/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/23/15		RRB	LQ- < 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690355

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/23/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/23/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/23/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/23/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/23/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/23/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690355

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/23/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/23/15		RRB	< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 111 % REC

Toluene-d8 (75-125) - 99 % REC

4-Bromofluorobenzene (75-125) - 100 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690356 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB LQ-	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690356

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690356

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 109 % REC
Toluene-d8 (75-125) - 100 % REC
4-Bromofluorobenzene (75-125) - 105 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690357 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB	LQ- < 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690357

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690357

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) - Continuing calibration recovery was outside acceptance limits. (+ is over - is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 127 % REC

Toluene-d8 (75-125) - 103 % REC

4-Bromofluorobenzene (75-125) - 110 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690358 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB LQ-	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690358

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690358

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 130 % REC
Toluene-d8 (75-125) - 100 % REC
4-Bromofluorobenzene (75-125) - 106 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690359 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB	LQ- < 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690359

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0 ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB	
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB	
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690359

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0 ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0 ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 108 % REC

Toluene-d8 (75-125) - 96 % REC

4-Bromofluorobenzene (75-125) - 99 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690360 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

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ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	< 5.0 ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	< 10 ug/L
Benzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromoform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB LQ-	< 2.0 ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
Chloroform	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	< 5.0 ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	< 3.0 ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	< 1.0 ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0 ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690360

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Styrene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Toluene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690360

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	< 1.0	ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-< 4.0	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 118 % REC
Toluene-d8 (75-125) - 100 % REC
4-Bromofluorobenzene (75-125) - 103 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690361 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	97% ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	114% ug/L
Benzene	EPA 8260C	04/24/15		RRB	93% ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	97% ug/L
Bromoform	EPA 8260C	04/24/15		RRB	93% ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	96% ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	109% ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB	69% ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	102% ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	96% ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	112% ug/L
Chloroform	EPA 8260C	04/24/15		RRB	97% ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	87% ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	106% ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	90% ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	112% ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	87% ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	93% ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	86% ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690361

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	89%	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	81%	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	88%	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	82%	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	92%	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	94%	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	104%	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	82%	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	98%	ug/L
Styrene	EPA 8260C	04/24/15		RRB	97%	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	92%	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	91%	ug/L
Toluene	EPA 8260C	04/24/15		RRB	89%	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	100%	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	90%	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	114%	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	95%	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	96%	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	108%	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	95%	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	94%	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	92%	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	96%	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	108%	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	89%	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	92%	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	89%	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	88%	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	91%	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690361

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	96% ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-79% ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 106 % REC
Toluene-d8 (75-125) - 96 % REC
4-Bromofluorobenzene (75-125) - 96 % REC



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690362 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 3

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Acrylonitrile	EPA 8260B	04/24/15		RRB	106% ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	04/24/15		RRB	
Acetone	EPA 8260C	04/24/15		RRB	92% ug/L
Benzene	EPA 8260C	04/24/15		RRB	89% ug/L
Bromodichloromethane	EPA 8260C	04/24/15		RRB	105% ug/L
Bromoform	EPA 8260C	04/24/15		RRB	106% ug/L
Bromomethane	EPA 8260C	04/24/15		RRB	98% ug/L
2-Butanone	EPA 8260C	04/24/15		RRB	110% ug/L
Carbon Disulfide	EPA 8260C	04/24/15		RRB	54% ug/L
Carbon Tetrachloride	EPA 8260C	04/24/15		RRB	100% ug/L
Chlorobenzene	EPA 8260C	04/24/15		RRB	93% ug/L
Chloroethane	EPA 8260C	04/24/15		RRB	105% ug/L
Chloroform	EPA 8260C	04/24/15		RRB	83% ug/L
Chloromethane	EPA 8260C	04/24/15		RRB	76% ug/L
2-Chloroethylvinylether	EPA 8260C	04/24/15		RRB	132% ug/L
Dibromochloromethane	EPA 8260C	04/24/15		RRB	108% ug/L
Dichlorodifluoromethane	EPA 8260C	04/24/15		RRB	98% ug/L
1,1-Dichloroethane	EPA 8260C	04/24/15		RRB	67% ug/L
1,2-Dichloroethane	EPA 8260C	04/24/15		RRB	101% ug/L
1,1-Dichloroethene	EPA 8260C	04/24/15		RRB	71% ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690362

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	78%	ug/L
trans-1,2-Dichloroethene	EPA 8260C	04/24/15		RRB	69%	ug/L
1,2-Dichloropropane	EPA 8260C	04/24/15		RRB	95%	ug/L
cis-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	111%	ug/L
trans-1,3-Dichloropropene	EPA 8260C	04/24/15		RRB	111%	ug/L
Ethylbenzene	EPA 8260C	04/24/15		RRB	89%	ug/L
2-Hexanone	EPA 8260C	04/24/15		RRB	107%	ug/L
Methylene Chloride	EPA 8260C	04/24/15		RRB	83%	ug/L
4-Methyl-2-Pentanone	EPA 8260C	04/24/15		RRB	122%	ug/L
Styrene	EPA 8260C	04/24/15		RRB	86%	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	04/24/15		RRB	95%	ug/L
Tetrachloroethene	EPA 8260C	04/24/15		RRB	99%	ug/L
Toluene	EPA 8260C	04/24/15		RRB	89%	ug/L
1,1,1-Trichloroethane	EPA 8260C	04/24/15		RRB	95%	ug/L
1,1,2-Trichloroethane	EPA 8260C	04/24/15		RRB	106%	ug/L
Trichlorofluoromethane	EPA 8260C	04/24/15		RRB	85%	ug/L
Trichloroethene	EPA 8260C	04/24/15		RRB	104%	ug/L
Vinyl Acetate	EPA 8260C	04/24/15		RRB	76%	ug/L
Vinyl Chloride	EPA 8260C	04/24/15		RRB	104%	ug/L
Total Xylenes	EPA 8260C	04/24/15		RRB	86%	ug/L
1,3-Dichlorobenzene	EPA 8260C	04/24/15		RRB	93%	ug/L
1,4-Dichlorobenzene	EPA 8260C	04/24/15		RRB	92%	ug/L
1,2-Dichlorobenzene	EPA 8260C	04/24/15		RRB	94%	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	04/24/15		RRB	116%	ug/L
1,2-Dibromoethane	EPA 8260	04/24/15		RRB	103%	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	04/24/15		RRB	113%	ug/L
EPA 8260 Scan	EPA 8260	04/24/15		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	04/24/15		RRB	101%	ug/L
1,2,3-Trichloropropane	EPA 8260	04/24/15		RRB	95%	ug/L
Bromochloromethane	EPA 8260	04/24/15		RRB	82%	ug/L



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CONTINUATION OF DATA FOR SAMPLE NUMBER 690362

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	04/24/15		RRB	104%	ug/L
Idomethane	EPA 8260	04/24/15		RRB	LQ-78%	ug/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

(Q) – Continuing calibration recovery was outside acceptance limits. (+ is over – is under)

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130) - 116 % REC

Toluene-d8 (75-125) - 99 % REC

4-Bromofluorobenzene (75-125) - 101 % REC



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CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: Town of Clay Landfill,
2015 Post Closure Monitoring Event

CES LOG NUMBERS

(INTERNAL USE DO NOT WRITE)

CES LOG NUMBERS	Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION
	Date	Time			
690347	4/1/15	14:45	GW	Grab	MW-2SR
348		15:45	GW	Grab	DGC-3S
349		13:45	GW	Grab	MW-4SR
350		12:20	GW	Grab	DGC-5
351		13:05	GW	Grab	MW-6SR
352		12:37	GW	Grab	MW-7S
353		12:50	GW	Grab	MW-8S
354		13:30	GW	Grab	MW-9S
355		14:15	GW	Grab	MW-10SR
356	✓	11:00	GW	Grab	MW-11SR

Number of Containers

1 2 3 4 5 6 7 8 9 10
12 x
12 x
12 x
12 x
12 x
12 x
12 x
12 x
12 x
12 x

Remarks

Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

2 VOC's

Sample bottle:

Type Size

NA NA

Preservative Code:

NA

Preservative Codes: A= Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃ G=Na₂S₂O₃ H=

Preservative Code: I=

Preservative Code: J=

Preservative Code: K=

Preservative Code: L=

Preservative Code: M=

Preservative Code: N=

Preservative Code: O=

Preservative Code: P=

Preservative Code: Q=

Preservative Code: R=

Preservative Code: S=

Preservative Code: T=

Preservative Code: U=

Preservative Code: V=

Preservative Code: W=

Preservative Code: X=

Preservative Code: Y=

Preservative Code: Z=

Preservative Code: AA=

Preservative Code: AB=

Preservative Code: AC=

Preservative Code: AD=

Preservative Code: AE=

Preservative Code: AF=

Preservative Code: AG=

Preservative Code: AH=

Preservative Code: AI=

Preservative Code: AJ=

Preservative Code: AK=

Preservative Code: AL=

Preservative Code: AM=

Preservative Code: AN=

Preservative Code: AO=

Preservative Code: AP=

Preservative Code: AQ=

Preservative Code: AR=

Preservative Code: AS=

Preservative Code: AT=

Preservative Code: AU=

Preservative Code: AV=

Preservative Code: AW=

Preservative Code: AX=

Preservative Code: AY=

Preservative Code: AZ=

Preservative Code: BA=

Preservative Code: BB=

Preservative Code: BC=

Preservative Code: BD=

Preservative Code: BE=

Preservative Code: BF=

Preservative Code: BG=

Preservative Code: BH=

Preservative Code: BI=

Preservative Code: BJ=

Preservative Code: BK=

Preservative Code: BL=

Preservative Code: BM=

Preservative Code: BN=

Preservative Code: BO=

Preservative Code: BP=

Preservative Code: BQ=

Preservative Code: BR=

Preservative Code: BS=

Preservative Code: BT=

Preservative Code: BU=

Preservative Code: BV=

Preservative Code: BW=

Preservative Code: BX=

Preservative Code: BY=

Preservative Code: BZ=

Preservative Code: CA=

Preservative Code: CB=

Preservative Code: CC=

Preservative Code: CD=

Preservative Code: CE=

Preservative Code: CF=

Preservative Code: CG=

Preservative Code: CH=

Preservative Code: CI=

Preservative Code: CJ=

Preservative Code: CK=

Preservative Code: CL=

Preservative Code: CM=

Preservative Code: CN=

Preservative Code: CO=

Preservative Code: CP=

Preservative Code: CQ=

Preservative Code: CR=

Preservative Code: CS=

Preservative Code: CT=

Preservative Code: CU=

Preservative Code: CV=

Preservative Code: CW=

Preservative Code: CX=

Preservative Code: CY=

Preservative Code: CZ=

Preservative Code: DA=

Preservative Code: DB=

Preservative Code: DC=

Preservative Code: DD=

Preservative Code: DE=

Preservative Code: DF=

Preservative Code: DG=

Preservative Code: DH=

Preservative Code: DI=

Preservative Code: DJ=

Preservative Code: DK=

Preservative Code: DL=

Preservative Code: DM=

Preservative Code: DN=

Preservative Code: DO=

Preservative Code: DP=

Preservative Code: DQ=

Preservative Code: DR=

Preservative Code: DS=

Preservative Code: DT=

Preservative Code: DU=

Preservative Code: DV=

Preservative Code: DW=

Preservative Code: DX=

Preservative Code: DY=

Preservative Code: DZ=

Preservative Code: EA=

Preservative Code: EB=

Preservative Code: EC=

Preservative Code: ED=

Preservative Code: EE=

Preservative Code: EF=

Preservative Code: EG=

Preservative Code: EH=

Preservative Code: EI=

Preservative Code: EJ=

Preservative Code: EK=

Preservative Code: EL=

Preservative Code: EM=

Preservative Code: EN=

Preservative Code: EO=

Preservative Code: EP=

Preservative Code: EQ=

Preservative Code: ER=

Preservative Code: ES=

Preservative Code: ET=

Preservative Code: EU=

Preservative Code: EV=

Preservative Code: EW=

Preservative Code: EX=

Preservative Code: EY=

Preservative Code: EZ=

Preservative Code: FA=

Preservative Code: FB=

Preservative Code: FC=

Preservative Code: FD=

Preservative Code: FE=

Preservative Code: FF=

Preservative Code: FG=

Preservative Code: FH=

Preservative Code: FI=

Preservative Code: FJ=

Preservative Code: FK=

Preservative Code: FL=

Preservative Code: FM=

Preservative Code: FN=

Preservative Code: FO=

Preservative Code: FP=

Preservative Code: FQ=

Preservative Code: FR=

Preservative Code: FS=

Preservative Code: FT=

Preservative Code: FU=

Preservative Code: FV=

Preservative Code: FW=

Preservative Code: FX=

Preservative Code: FY=

Preservative Code: FZ=

Preservative Code: GA=

Preservative Code: GB=

Preservative Code: GC=

Preservative Code: GD=

Preservative Code: GE=

Preservative Code: GF=

Preservative Code: GG=

Preservative Code: GH=

Preservative Code: GI=

Preservative Code: GJ=

Preservative Code: GK=

Preservative Code: GL=

Preservative Code: GM=

Preservative Code: GN=

Preservative Code: GO=

Preservative Code: GP=

Preservative Code: GQ=

Preservative Code: GR=

Preservative Code: GS=

Preservative Code: GT=

Preservative Code: GU=

Preservative Code: GV=

Preservative Code: GW=

Preservative Code: GX=

Preservative Code: GY=

Preservative Code: GZ=

Preservative Code: HA=

Preservative Code: HB=

Preservative Code: HC=

Preservative Code: HD=

Preservative Code: HE=

Preservative Code: HF=

Preservative Code: HG=

Preservative Code: HH=

Preservative Code: HI=

Preservative Code: HJ=

Preservative Code: HK=

Preservative Code: HL=

Preservative Code: HM=

Preservative Code: HN=

Preservative Code: HO=

Preservative Code: HP=

Preservative Code: HQ=

Preservative Code: HR=

Preservative Code: HS=

Preservative Code: HT=

Preservative Code: HU=

Preservative Code: HV=

Preservative Code: HW=

Preservative Code: HX=

Preservative Code: HY=

Preservative Code: HZ=

Preservative Code: IA=

Preservative Code: IB=

Preservative Code: IC=

Preservative Code: ID=

Preservative Code: IE=

Preservative Code: IF=

Preservative Code: IG=

Preservative Code: IH=

Preservative Code: II=

Preservative Code: IJ=

Preservative Code: IK=

Preservative Code: IL=

Preservative Code: IM=

Preservative Code: IN=

Preservative Code: IO=

Preservative Code: IP=

Preservative Code: IQ=

Preservative Code: IR=

Preservative Code: IS=

Preservative Code: IT=

Preservative Code: IU=

Preservative Code: IV=

Preservative Code: IW=

Preservative Code: IX=

Preservative Code: IY=

Preservative Code: IZ=

Preservative Code: JA=

Preservative Code: JB=

Preservative Code: JC=

Preservative Code: JD=

Preservative Code: JE=

Preservative Code: JF=

Preservative Code: JG=

Preservative Code: JH=

Preservative Code: JI=

Preservative Code: JJ=

Preservative Code: JK=

Preservative Code: JL=

Preservative Code: JM=

Preservative Code: JN=

Preservative Code: JO=

Preservative Code: JP=

Preservative Code: JQ=

Preservative Code: JR=

Preservative Code: JS=



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Sample Receiving Checklist

Client Name: CES

Batch Number: <u>E4061</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK:	☒	☐	_____

(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 921

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690219 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	120. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	11.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	644. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Note: The method blank results associated with the BOD analysis are greater than the established limit.

Rachel R. Bonczyk
Technical Director



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C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690220 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	12. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	375. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690221 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	22. mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	160. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 50 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	985. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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499 Col. E. Collins Blvd.
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690222 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	< 4. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	264. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690223 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	14. mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	155. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 15 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	0.08 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	859. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690224 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	< 2. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 15 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	0.06 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	397. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690225 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	5.6 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	310. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 10 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	14.1 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	935. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690226 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1236	KSH	22. mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	320. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 45 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1534	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	1186. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690227 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	30. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	17.6 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	357. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690228 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	34. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 15 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	13.8 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	542. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Note: The method blank results associated with the BOD analysis are greater than the established limit.

Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690229 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	< 2. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	245. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690230 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	< 2. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T < 5 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	12.1 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	170. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Note: The method blank results associated with the BOD analysis are greater than the established limit.

Rachel R. Bonczyk
Technical Director



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Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690231 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	85. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 50 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	284. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690232 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	< 4.0 mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	9. mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	T 15 units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	< 0.004 mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	< 0.05 mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	< 10.0 mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	360. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690233 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		04/22/15		KC	0.9	Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	87%	mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	104%	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	112%	units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	97%	mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	106%	mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	88%	mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	228.Dup	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Note: The method blank results associated with the BOD analysis are greater than the established limit.

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/30/2015

SAMPLE NUMBER- 690234 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Biochemical Oxygen Dem-01, -11	SM 5210B	04/22/15	1344	KSH	88% mg/L
Chloride-97, -11	SM4500Cl-B	04/29/15		KSH	104% mg/L
COLOR (A=Apparent T=True)	SM18 2120B	04/22/15	1118	JDC	108% units
Hexavalent Chromium	EPA 7196A	04/22/15	0942	AG	99% mg/L
Nitrate as N (SM)-00, -11	4500-NO3 E	04/22/15	1650	JDC	109% mg/L
Sulfate-97, -11	SM4500SO4E	04/30/15		RRB	92% mg/L
Total Dissolved Solids-97, -11	SM 2540C	04/22/15		BLD	234.Trip mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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Rachel R. Bonczyk
Technical Director



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CES BATCH NO: E4053 OF 10

Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered
Turn-Around Time: next day business. Rush TAT subject to laboratory approval and surcharges.
☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: C&S Engineers CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667
ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
PROJECT #/NAME/PO #: Town of Clay Landfill,
2015 Post Closure Monitoring Event
CONTACT NAME: Christen M. Craig

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)			Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION										Number of Containers	Remarks
			Date	Time														
690219			4/21/15	14:45	GW	Grab	MW-2SR										12	x
220				15:45	GW	Grab	DGC-3S										12	x
221				13:45	GW	Grab	MW-4SR										12	x
222				12:20	GW	Grab	DGC-5										12	x
223				13:05	GW	Grab	MW-6SR										12	x
224				12:37	GW	Grab	MW-7S										12	x
225				12:50	GW	Grab	MW-8S										12	x
226				13:30	GW	Grab	MW-9S										12	x
227				14:15	GW	Grab	MW-10SR										12	x
228				11:00	GW	Grab	MW-11SR										12	x

Parameter and Method: 6 NYCRR Part 360 Baseline (See Attached List)
BOD, Cl, Color, Cr-Hex, NO₃, SO₄, TDS

Preservative Codes: A= Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃
G=Na₂S₂O₃ H=

Sample bottle: Type NA Size NA Preservative Code: NA

Samples Collected By: Name (Print): B. M. M. M. Signature: [Signature] Company: CES

RELINQUISHED BY: Name: B. M. M. M. Signature: [Signature] Date: 4/21/15 Time: 17:20

RECEIVED BY: Name: KC ramp Signature: [Signature] Date: 4/22/15 Time: 0734

Samples Received in Good Condition: ☒ Yes ☐ No Receipt Temperature: 0.7228

[illegible]



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Sample Receiving Checklist

Client Name: GS

Batch Number: <u>E4053</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK: (If preservation required note Lot # associated with preservative if available.)	☒	☐	_____

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690251 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	9. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	0.16 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/26/15		JDC	0.71 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690252 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	< 5. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	0.10 mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	04/30/15		JDC	< 0.5 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690253 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/29/15		RRB	136. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	92.2 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	97.0 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690254 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	18. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	2.56 mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	04/30/15		JDC	3.13 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690255 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/29/15		RRB	93. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	28.4 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	30.9 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690256 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	14. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	04/29/15		MPB	1.65 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	2.13 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690257 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	41. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	0.34 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	1.58 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690258 SAMPLE ID- MW-9S SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1330
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/29/15		RRB	215. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	120. mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	122. mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690259 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	< 5. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	0.21 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	< 0.5 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690260 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	14. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	< 0.1 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	< 0.5 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



**Certified
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7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690261 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	< 5. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	1.25 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	1.37 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690262 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97, -11	SM 5220C	04/23/15		RRB	< 5. mg/L
Ammonia as N (SM)-97, -11	4500NH3D/E	05/01/15		MPB	0.15 mg/L
Total Kjeldahl Nit. (SM)-97, -11	4500NH3D/E	04/30/15		JDC	0.70 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690263 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	27. mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	0.16 mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	0.68 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690264 SAMPLE ID- SW-2 SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1130
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97, -11	SM 5220C	04/23/15		RRB	14. mg/L
Ammonia as N (SM)-97, -11	4500NH3D/E	05/01/15		MPB	0.10 mg/L
Total Kjeldahl Nit. (SM)-97, -11	4500NH3D/E	04/30/15		JDC	< 0.5 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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C & S Engineers, Inc.
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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690265 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97, -11	SM 5220C	04/23/15		RRB	118% mg/L
Ammonia as N (SM)-97, -11	4500NH3D/E	05/01/15		MPB	95% mg/L
Total Kjeldahl Nit. (SM)-97, -11	4500NH3D/E	04/30/15		JDC	88% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Rachel R. Bonczyk
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C & S Engineers, Inc.
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Attn: Ms. Christen Craig

PROJECT NAME: Y/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690266 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	04/23/15		RRB	108% mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	05/01/15		MPB	98% mg/L
Total Kjeldahl Nit. (SM)-97,-11	4500NH3D/E	04/30/15		JDC	95% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: **Town of Clay Landfill,
2015 Post Closure Monitoring Event**

CES LOG NUMBERS

(INTERNAL USE/DO NOT WRITE)

650261

262

263

264

265

266

CLIENT ID/SAMPLE LOCATION

DGC-2D

DGC-6D

QA/QC

SW-1

SW-2

DGC-2D MC

DGC-2D MSD

VC 4/22/15

Grab or Comp.

Grab

Grab

Grab

Grab

Grab

Grab

↓

↓

Matrix

GW

GW

GW

GW

GW

↓

Collected Date

4/21/15

15:00

13:15

13:25

16:10

11:30

Time

15:00

13:15

13:25

16:10

11:30

Number of Containers

12

12

12

12

12

12

12

12

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12

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Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

2

3

4

5

6

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Sample bottle:

Type

Size

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

Preservative Code:

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

NA

Preservative Codes: A=Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃

G=Na₂S₂O₃ H=

I=

J=

K=

L=

M=

N=

O=

P=

Q=

R=

S=

T=

U=

V=

W=

X=

Y=

Z=

AA=

AB=

Samples Collected By:

Name (Print): *Bol Marzocchi*

Signature: *[Signature]*

Company: *CES*

RELINQUISHED BY:

Name: *Bol Marzocchi*

Signature: *[Signature]*

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Remarks:

RECEIVED BY:

Date

Time

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Signature:

Name:

Signature:

Samples Received in Good Condition:

☐ Yes ☐ No

Receipt Temperature: *0.70°C*



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Sample Receiving Checklist

Client Name: CES

Batch Number: E4055 Yes No If No Explain:

1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK:	☒	☐	_____
- (If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690315 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690316 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690317 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690318 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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REPORT OF ANALYSES

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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690319 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690320 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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C & S Engineers, Inc.
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690321 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690322 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Rachel R. Bonczyk
Technical Director



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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690323 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690324 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/28/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/29/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690325 SAMPLE ID- DGC-2D SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1500
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690326 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/28/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/29/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690327 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi
SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/28/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/29/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

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PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690328 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/28/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/29/15		JDC	< 0.01 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690329 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	86% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 04/29/2015

SAMPLE NUMBER- 690330 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	04/24/15		JDC	Prep Complete
Total Cyanide (SM18-21)	4500-CN E	04/24/15		JDC	84% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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CES BATCH NO: E4059

PAGE 0F

Turn-Around Time: Standard ☐ 5 Working Days ☐ 3 Working Days
Rush TAT subject to laboratory approval and surcharges.

CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.

Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: Town of Clay Landfill,
2015 Post Closure Monitoring Event

CES LOG NUMBERS

(INTERNAL USE/DO NOT WRITE)

CLIENT ID/SAMPLE LOCATION

Number of Containers

Remarks

1 2 3 4 5 6 7 8 9 10

Standard ☐ 5 Working Days ☐ 3 Working Days

2 Working Days ☐ 1 Working Days

Preservative Codes: A= Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃

G=Na₂S₂O₃ H=

Samples Collected By:

Name (Print): Paul Mazzanti

Signature: [Signature]

Company: CES

RELINQUISHED BY:

Name: Paul Mazzanti

Signature: [Signature]

Name: [Signature]

Signature: [Signature]

RECEIVED BY:

Name: [Signature]

Signature: [Signature]

Receipt Temperature: 0.70°C

Samples Received in Good Condition: ☐ Yes ☐ No

Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

Sample bottle: Type NA Size NA

Preservative Code: NA

Remarks:

Grab or Comp. Matrix Collected Date Time

325 15:00 4/21/15

326 13:15

327 13:25

328 16:10

329 11:30

330 DGC-20 ms

DGC-20 ms

4/22/15



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Sample Receiving Checklist

Client Name: C&S

Batch Number: E4039 Yes No If No Explain:

1. Proper Full and Complete Documentation: ☒ ☐ _____
2. Appropriate Sample Containers: ☒ ☐ _____
3. Adequate Sample Volume: ☒ ☐ _____
4. Hold Time(OK): ☒ ☐ _____
5. Proper Sample Labeling: ☒ ☐ _____
6. Sample Temperature: ☒ ☐ _____
7. Preservation OK: ☒ ☐ _____
(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 921
HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690267 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	6.21 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690268 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	2.62 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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Rachel R. Bonczyk
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Note: Analysis performed by ELAP #11393.



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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690269 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	45.7 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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Rachel R. Bonczyk
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Note: Analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690270 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	3.77 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690271 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	30.9 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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Rachel R. Bonczyk
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Note: Analysis performed by ELAP #11393.



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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690272 SAMPLE ID- MW-7S SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1237
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	6.31 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690273 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	13.3 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690274 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	73.2 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690275 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	1.69 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Rachel R. Bonczyk
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Note: Analysis performed by ELAP #11393.



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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690276 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	5.69 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690277 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	1.89 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Rachel R. Bonczyk
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690278 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	< 1.00 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690279 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	9.69 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690280 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	7.78 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690281 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	84 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690282 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Total Organic Carbon	SM18-5310B	04/28/15		SA	83% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Analysis performed by ELAP #11393.



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Sample Receiving Checklist

Client Name: C&S

Batch Number: <u>E4056</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	
2. Appropriate Sample Containers:	☒	☐	
3. Adequate Sample Volume:	☒	☐	
4. Hold Time(OK):	☒	☐	
5. Proper Sample Labeling:	☒	☐	
6. Sample Temperature:	☒	☐	
7. Preservation OK: (If preservation required note Lot # associated with preservative if available.)	☒	☐	

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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7280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: **Town of Clay Landfill,
2015 Post Closure Monitoring Event**

CES BATCH NO: **EY056**

PAGE **OF**

Turn-Around Time: Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered next day business. Rush TAT subject to laboratory approval and surcharges.

☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CES LOG NUMBERS

(INTERNAL USE DO NOT WRITE)

CES LOG NUMBERS	Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers										Remarks
	Date	Time				1	2	3	4	5	6	7	8	9	10	
690267	4/21/15	14:45	GW	Grab	MW-2SR	12	x									
268		15:45	GW	Grab	DGC-3S	12	x									
269		13:45	GW	Grab	MW-4SR	12	x									
270		12:20	GW	Grab	DGC-5	12	x									
271		13:05	GW	Grab	MW-6SR	12	x									
272		12:37	GW	Grab	MW-7S	12	x									
273		12:50	GW	Grab	MW-8S	12	x									
274		13:30	GW	Grab	MW-9S	12	x									
275		14:15	GW	Grab	MW-10SR	12	x									
276	✓	11:00	GW	Grab	MW-11SR	12	x									

Parameter and Method:

1	6 NYCRR Part 360 Baseline (See Attached List)	Sample bottle: Type NA Size NA	Preservative Code: NA	Preservative Codes: A= Unpreserved B=H ₂ SO ₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO ₃ G=Na ₂ S ₂ O ₃ H=

2	70C	Samples Collected By: B. Morandi		Remarks:
3		Name (Print): B. Morandi		
4		Signature: [Signature]		
5		Company: CES		

6	7	8	9	10	RELINQUISHED BY:	Date	Time	RECEIVED BY:
					Name: B. Morandi	4/21/15	17:20	Name:
					Signature: [Signature]			Signature:
					Name:			Name: KC ramp
					Signature:	4/22/15	0734	Signature: [Signature]

Samples Received in Good Condition: ☒ Yes ☐ No

Receipt Temperature: **0.70°C**



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CES BATCH NO: E4056 PAGE OF
Turn-Around Time: Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered "next day business." Rush TAT subject to laboratory approval and surcharges.

CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.

Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: **Town of Clay Landfill,**

2015 Post Closure Monitoring Event

CES LOG NUMBERS

(INTERNAL USE ONLY - NOT WRITE)

	CES LOG NUMBERS	Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers										Remarks
		Date	Time				1	2	3	4	5	6	7	8	9	10	
690	277	4/21/15	15:00	GW	Grab	DGC-2D	12	x									
	278		13:15	GW	Grab	DGC-6D	12	x									
	279		13:25	GW	Grab	QA/QC	12	x									
	280		16:10	GW	Grab	SW-1	12	x									
	281		11:30	GW	Grab	SW-2	12	x									
	282					DGC-2D MS											
						DGC-2D MSO											
						4/21/15											

Parameter and Method:

1 6 NYCRR Part 360 Baseline (See Attached List)

Sample bottle:
Type Size

Preservative Code:

Preservative Codes: A=Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃
G=Na₂S₂O₃ H= _____ I= _____

Samples Collected By:

Name (Print): Bob Mazzuchelli

Signature: [Signature]

Company: CES

Remarks:

RELINQUISHED BY:

Name: Bob Mazzuchelli

Signature: [Signature]

Name: _____

Signature: _____

Date

Time

RECEIVED BY:

Name:

Signature:

Name: K. C. V. u. a. r.

Signature: [Signature]

Samples Received in Good Condition:

☐ Yes ☐ No

Receipt Temperature: 0.799°C



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690299 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/29/15		RS	420. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690300 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/29/15		RS	347. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690301 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	913. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

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(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690302 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	247. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690303 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	667. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

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Technical Director



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REPORT OF ANALYSES

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690304 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	380. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
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REPORT OF ANALYSES

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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690305 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/29/15		RS	353. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690306 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	804. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
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REPORT OF ANALYSES

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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690307 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/29/15		RS	327. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690308 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/29/15		RS	467. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690309 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/29/15		RS	216. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690310 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/30/15		RS	136. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690311 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/30/15		RS	124. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**



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REPORT OF ANALYSES

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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690312 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/30/15		RS	316. mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



**Certified
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Services, Inc.**

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690313 SAMPLE ID- DGC-2D MS
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97,-11	SM 2320B	04/30/15		RS	216.dup mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/01/2015

SAMPLE NUMBER- 690314 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
Alkalinity as CaCO ₃ -97, -11	SM 2320B	04/30/15		RS	220.trip mg/L CaCO ₃

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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Technical Director

CHAIN OF CUSTODY RECORD (SEE BACK FOR TERMS & CONDITIONS)



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CES BATCH NO: E4058 PAGE OF

Turn-Around Time: ☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: C&S Engineers
ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
CONTACT NAME: Christen M. Craig
CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667
PROJECT #/NAME/PO #: **Town of Clay Landfill,
2015 Post Closure Monitoring Event**

Remarks

CES LOG NUMBERS (INTERNAL USE DO NOT WRITE)

CES LOG NUMBERS (INTERNAL USE DO NOT WRITE)	Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION										Remarks
	Date	Time			1	2	3	4	5	6	7	8	9	10	
690299	4/1/15	14:45	GW	Grab	MW-2SR										
300		15:45	GW	Grab	DGC-3S	12	x								
301		13:45	GW	Grab	MW-4SR	12	x								
302		12:20	GW	Grab	DGC-5	12	x								
303		13:05	GW	Grab	MW-6SR	12	x								
304		12:37	GW	Grab	MW-7S	12	x								
305		12:50	GW	Grab	MW-8S	12	x								
306		13:30	GW	Grab	MW-9S	12	x								
307		14:15	GW	Grab	MW-10SR	12	x								
308	✓	11:00	GW	Grab	MW-11SR	12	x								

Parameter and Method:

	Sample bottle:		Preservative Code:	Samples Collected By:										Remarks:
	Type	Size												
1	6 NYCRR Part 360 Baseline (See Attached List)	NA	NA	Name (Print): <u>Bulmarch</u>										
2				Signature: <u>[Signature]</u>										
3				Company: <u>CES</u>										
4														
5														
6														
7														
8														
9														
10														

RELINQUISHED BY:

Name: Bulmarch
Signature: [Signature]
Name: KC vung
Signature: [Signature]

RECEIVED BY:

Name: KC vung
Signature: [Signature]

Samples Received in Good Condition: ☒ Yes ☐ No

Receipt Temperature: 0.728



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Sample Receiving Checklist

Client Name: CS

Batch Number: E4058 Yes No If No Explain:

1. Proper Full and Complete Documentation: ☒ ☐ _____
2. Appropriate Sample Containers: ☒ ☐ _____
3. Adequate Sample Volume: ☒ ☐ _____
4. Hold Time(OK): ☒ ☐ _____
5. Proper Sample Labeling: ☒ ☐ _____
6. Sample Temperature: ☒ ☐ _____
7. Preservation OK: ☒ ☐ _____
(If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 921

HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690331 SAMPLE ID- MW-2SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690332 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690333 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690334 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690335 SAMPLE ID- MW-6SR SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1305
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690336 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690337 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		04/22/15		KC	0.9	Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690338 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		04/22/15		KC	0.9	Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010	mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690339 SAMPLE ID- MW-10SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1415
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690340 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

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499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690341 SAMPLE ID- DGC-2D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690342 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/03/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690343 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/03/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690344 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/03/15		JDC	< 0.010 mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690345 SAMPLE ID- DGC-2 MS SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1325
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	98% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/04/2015

SAMPLE NUMBER- 690346 SAMPLE ID- DGC-2 MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
TOTAL PHENOLS	EPA 420.1	05/01/15		JDC	101% mg/L

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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CHAIN OF CUSTODY RECORD (SEE BACK FOR TERMS & CONDITIONS)

7280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CLIENT NAME: C&S Engineers

ADDRESS: 499 Col. Eileen Collins Blvd.

Syracuse, NY 13212

CONTACT NAME: Christen M. Craig

CLIENT PHONE: (315) 455-2000

FAX: (315) 455-9667

PROJECT #/NAME/PO #: Town of Clay Landfill,
2015 Post Closure Monitoring Event

CES BATCH NO: E4060

PAGE 0F

Turn-Around Time: Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered next day business. Rush TAT subject to laboratory approval and surcharges.

☐ Standard ☐ 5 Working Days ☐ 3 Working Days

☐ 2 Working Days ☐ 1 Working Days

Remarks

ADDRESS:		499 Col. Eileen Collins Blvd. Syracuse, NY 13212		CONTACT NAME: Christen M. Craig		PROJECT #/NAME/PO #: Town of Clay Landfill, 2015 Post Closure Monitoring Event		CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667	
CES LOG NUMBERS		Collected		Matrix		Grab or Comp.		CLIENT ID/SAMPLE LOCATION	
INTERNAL USE (DO NOT WRITE)		Date	Time						
		11/1	11/1						

12 x

12 x

12 x

12 x

12 x

DGC-20 MS

DGC-20 MSD

Parameter and Method:

Sample bottle:
Type NA Size NA

Preservative
Code: NA

Preservative Codes: A=Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃
G=Na₂S₂O₃ H=

1 16 NYCRR Part 360 Baseline (See Attached List)

Samples Collected By:

Name (Print): Paul Mazzanti

Signature:

Company: CES

Remarks:

RELINQUISHED BY:

Name: Paul Mazzanti

Signature:

Name:

Signature:

Date Time

4/21/15 17:20

Name:

Signature:

Name: K. C. V. u. a. r

Signature:

Samples Received in Good Condition:

☐ Yes ☐ No

Receipt Temperature: 0.70°C



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7280 Caswell Street
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Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: CS

Batch Number: E4060 Yes No If No Explain:

1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK:	☒	☐	_____
- (If preservation required note Lot # associated with preservative if available.)

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 921
HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690235 SAMPLE ID- MW-2SR SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1445
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		04/22/15		KC	0.9	Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.757	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690236 SAMPLE ID- DGC-3S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1545
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	< 0.10 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690237 SAMPLE ID- MW-4SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1345
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	2.36 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690238 SAMPLE ID- DGC-5
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1220
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	< 0.10 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690239 SAMPLE ID- MW-6SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1305
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	1.41 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690240 SAMPLE ID- MW-7S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1237
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	< 0.10 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690241 SAMPLE ID- MW-8S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1250
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	1.10 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690242 SAMPLE ID- MW-9S
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1330
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	5.02 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690243 SAMPLE ID- MW-10SR SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1415
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.566 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690244 SAMPLE ID- MW-11SR
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1100
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.501 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
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REPORT OF ANALYSES

C & S Engineers, Inc.
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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690245 SAMPLE ID- DGC-2D SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1500
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.149 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
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Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690246 SAMPLE ID- DGC-6D
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1315
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	< 0.10 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690247 SAMPLE ID- SW-1
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1610
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.131 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690248 SAMPLE ID- SW-2
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1130
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	0.250 mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690249 SAMPLE ID- DGC-2D MS SAMPLE MATRIX- WW
DATE SAMPLED- 04/21/15 TIME SAMPLED- 1325
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES) RECEIVED BY- KC
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	105% mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director



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REPORT OF ANALYSES

C & S Engineers, Inc.
499 Col. E. Collins Blvd.
North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: T/O Clay LF 2015 Post Closure
DATE: 05/05/2015

SAMPLE NUMBER- 690250 SAMPLE ID- DGC-2D MSD
DATE SAMPLED- 04/21/15
DATE RECEIVED- 04/22/15 SAMPLER- Paul Marzocchi (CES)
TIME RECEIVED- 0734 DELIVERED BY- Paul Marzocchi

SAMPLE MATRIX- WW
TIME SAMPLED- 1325
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS
Sample Receipt Temperature		04/22/15		KC	0.9 Degrees C
BROMIDE	SM15 p.44	05/03/15		SA	105% mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CHAIN OF CUSTODY RECORD (SEE BACK FOR TERMS & CONDITIONS)



7280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
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CES BATCH NO: EU054 PAGE OF

Turn-Around Time: Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered next day business. Rush TAT subject to laboratory approval and surcharges.
☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: C&S Engineers
 ADDRESS: 499 Col. Eileen Collins Blvd.
 Syracuse, NY 13212
 CONTACT NAME: Christen M. Craig
 CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667
 PROJECT #/NAME/PO #: **Town of Clay Landfill, 2015 Post Closure Monitoring Event**

CES LOG NUMBERS (INTERNAL USE ONLY - NOT WRITE)			Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers										Remarks
Date	Time							1	2	3	4	5	6	7	8	9	10	
690235	4/21/15	14:45	GW	Grab	GW	Grab	MW-2SR	12	x									
236		15:45	GW	Grab	GW	Grab	DGC-3S	12	x									
237		13:45	GW	Grab	GW	Grab	MW-4SR	12	x									
238		12:20	GW	Grab	GW	Grab	DGC-5	12	x									
239		13:05	GW	Grab	GW	Grab	MW-6SR	12	x									
240		12:37	GW	Grab	GW	Grab	MW-7S	12	x									
241		12:50	GW	Grab	GW	Grab	MW-8S	12	x									
242		13:30	GW	Grab	GW	Grab	MW-9S	12	x									
243		14:15	GW	Grab	GW	Grab	MW-10SR	12	x									
244		11:00	GW	Grab	GW	Grab	MW-11SR	12	x									

Preservative Codes: A= Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃
 G=Na₂S₂O₃ H= _____ I= _____

Parameter and Method: 1 6 NYCRR Part 360 Baseline (See Attached List)
 2 *Bottle*
 3
 4
 5
 6
 7
 8
 9
 10

Sample bottle: Type NA Size NA

Preservative Code: NA

Samples Collected By: Name (Print): Bull Moratchi
 Signature: [Signature]
 Company: CES

RELINQUISHED BY: Name: Bull Moratchi
 Signature: [Signature]
 Date: 4/21/15 Time: 17:20

RECEIVED BY: Name: KC ramp
 Signature: [Signature]
 Date: 4/22/15 Time: 0734

Samples Received in Good Condition: ☒ Yes ☐ No
 Receipt Temperature: 0.70°C



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1280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
Fax 315-478-2107

CES BATCH NO: E4054 PAGE 01 OF 01

Standard TAT is end of day, 10 working days after lab receipt. Samples received after 2 pm are considered "next day business. Rush TAT subject to laboratory approval and surcharges.
☐ Standard ☐ 5 Working Days ☐ 3 Working Days
☐ 2 Working Days ☐ 1 Working Days

CLIENT NAME: C&S Engineers
ADDRESS: 499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
CONTACT NAME: Christen M. Craig
CLIENT PHONE: (315) 455-2000 FAX: (315) 455-9667
PROJECT #/NAME/PO #: **Town of Clay Landfill,
2015 Post Closure Monitoring Event**

CES LOG NUMBERS (INTERNAL USE DO NOT WRITE)					Collected		Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number									
					Date	Time				1	2	3	4	5	6	7	8	9	10
690245					4/21/15	15:00	GW	Grab	DGC-2D	12	x								
246						13:15	GW	Grab	DGC-6D	12	x								
						13:25	GW	Grab	QA/QC	12	x								
247						16:10	GW	Grab	SW-1	12	x								
248						11:30	GW	Grab	SW-2	12	x								
249									DGC-2D MS										
250									DGC-2D MSD										
									KC4/22/15										

Parameter and Method: 1 6 NYCRR Part 360 Baseline (See Attached List)
Sample bottle: Type NA Size NA
Preservative Code: NA
Preservative Codes: A= Unpreserved B=H₂SO₄ C=HCl D=NaOH E=Ascorbic Acid F=HNO₃ G=Na₂S₂O₃ H= _____ I= _____
Samples Collected By: Name (Print): Bob Mazzuchelli
Signature: [Signature]
Company: CES

RELINQUISHED BY: Name: Bob Mazzuchelli
Signature: [Signature]
Date: 4/21/15 Time: 17:20
Name: KC Cuellar
Signature: [Signature]
Date: 4/22/15 Time: 0734

RECEIVED BY: Name: _____
Signature: _____
Date: _____ Time: _____
Receipt Temperature: 0.70°C
☐ Yes ☐ No



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7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: CES

Batch Number: <u>E4054</u>	Yes	No	If No Explain:
1. Proper Full and Complete Documentation:	☒	☐	_____
2. Appropriate Sample Containers:	☒	☐	_____
3. Adequate Sample Volume:	☒	☐	_____
4. Hold Time(OK):	☒	☐	_____
5. Proper Sample Labeling:	☒	☐	_____
6. Sample Temperature:	☒	☐	_____
7. Preservation OK: (If preservation required note Lot # associated with preservative if available.)	☒	☐	_____

H₂SO₄ WC 770 HNO₃ MP 155 NaOH WCSP 3122 Ascorbic Acid WC 421
HCl WCSP 3420 Na₂S₂O₃ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914

Approved by: AG

Date Put In Place: 10/9/14

APPENDIX B

LANDFILL INSPECTION/GAS MONITORING REPORTS



C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
p: (315) 455-2000
f: (315) 455-9667
www.cscos.com

June 30, 2015

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2015 First Quarter Landfill Inspection

File: 195.767.015

Dear Mr. Ulatowski:

In accordance with our 2015 Post-Closure Environmental Monitoring Program Agreement, the 2015 First Quarter landfill inspection and combustible gas vent monitoring was completed on April 30, 2015. Quarterly landfill inspection is required by the NYSDEC. The landfill inspection included the inspection of the groundwater monitoring network and the landfill cap system, including the landfill gas vent system, vegetative cover, drainage swales, perimeter fence and gate, and surface water retention ponds. Items observed during the inspection are detailed on the attached Town of Clay Landfill – April 30, 2015 Post-Closure Field Inspection Report.

A combustible gas survey was also completed at the site on April 30, 2015. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. The combustible gases released from each gas vent were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization Detector (PID) with 3-D sensor. The results of the combustible gas survey are included on the attached Clay Landfill Gas Vent Monitoring Summary Table.

In addition to landfill gas vent monitoring, perimeter gas monitoring was also completed at the landfill. Perimeter monitoring was completed at each corner (at 90 degree intervals) of the landfill in the center of the access road. The results of the perimeter monitoring are as follows: %LEL readings were 0%; carbon monoxide and hydrogen sulfide readings were nondetectable; and the presence of total VOC concentrations was not detected. The results of perimeter monitoring indicate that landfill gases are not migrating away from the landfill at detectable concentrations.

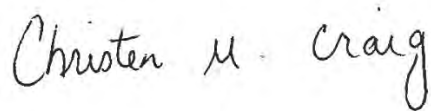
Mr. Damian Ulatowski
June 30, 2015
Page 2

As recommended on the attached Post-Closure Field Inspection Report, brush should be removed/cut from the perimeter fence in order to prevent damage to the fence. In general, the landfill gas vents and drainage culverts appeared to be in good condition.

It should be noted that the 2015 First Quarter landfill inspection was originally scheduled for March 2015. Since the landfill was still covered by a significant amount of snow in March 2015, C&S contacted Ms. Stephanie Fitzgerald at the NYSDEC and requested that the first quarter inspection be rescheduled for the end of April 2015. Ms. Fitzgerald agreed to reschedule the first quarter inspection in order to wait for more snowmelt which would allow for a better visual inspection of the landfill.

Very truly yours,

C&S ENGINEERS, INC.



Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC

Town of Clay Landfill – April 30, 2015 - Post-Closure Field Inspection Report
Inspector: Wayne Randall

- The landfill cap system appears to be in good shape with no repairs needed.
- The landfill gas vents appear to be in good condition with no repairs needed.
- The drainage culverts appear to be in good condition with no obstructions observed.
- Brush should be removed/cut around perimeter fence to prevent damage to the fence.

4/30/2015					
CLAY LANDFILL GAS VENT MONITORING					
VENT	%LEL	CO (ppm)	H ₂ S (ppm)	PID (ppm)	Comments
GV-1	0.0	0.0	0.0	0.0	
GV-2	0.0	0.0	0.0	0.0	
GV-3	0.0	0.0	0.0	1.0	
GV-4	>100	0.0	0.0	0.0	
GV-5	0.0	0.0	0.0	1.0	
GV-6	>100	0.0	0.0	1.0	
GV-7	0.0	0.0	0.0	0.0	
GV-8	0.0	0.0	0.0	0.0	
GV-9	0.0	0.0	0.0	0.0	
GV-10	>100	0.0	0.0	0.0	
GV-11	0.0	0.0	0.0	0.0	
GV-12	0.0	0.0	0.0	0.0	
GV-13	0.0	0.0	0.0	0.0	
GV-14	0.0	0.0	0.0	0.0	
GV-15	>100	0.0	0.0	1.0	
GV-16	>100	0.0	0.0	0.0	
GV-17	>100	0.0	0.0	0.0	
GV-18	0.0	0.0	0.0	1.0	
GV-19	0.0	0.0	0.0	1.0	
GV-20	0.0	0.0	0.0	0.0	
GV-21	0.0	0.0	0.0	0.0	
GV-22	0.0	0.0	0.0	1.0	
North Boundary	0.0	0.0	0.0	0.0	
East Boundary	0.0	0.0	0.0	0.0	
South Boundary	0.0	0.0	0.0	0.0	
West Boundary	0.0	0.0	0.0	0.0	
PZ-1 Water Level	feet	41.25			

Town of Clay Landfill

Post-Closure Monitoring – April 2015



Town of Clay Landfill

Post-Closure Monitoring – April 2015



Town of Clay Landfill

Post-Closure Monitoring – April 2015



Town of Clay Landfill

Post-Closure Monitoring – April 2015





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f: (315) 455-9667
www.cscos.com

July 16, 2015

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2015 Second Quarter Landfill Inspection

File: 195.767.015

Dear Mr. Ulatowski:

In accordance with our 2015 Post-Closure Environmental Monitoring Program Agreement, the 2015 Second Quarter landfill inspection and combustible gas vent monitoring was completed on June 17, 2015. Quarterly landfill inspection is required by the NYSDEC. The landfill inspection included the inspection of the groundwater monitoring network and the landfill cap system, including the landfill gas vent system, vegetative cover, drainage swales, perimeter fence and gate, and surface water retention ponds. Items observed during the inspection are detailed on the attached Town of Clay Landfill – June 17, 2015 Post-Closure Field Inspection Report and photographs taken during the inspection are attached.

A combustible gas survey was also completed at the site on June 17, 2015. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. The combustible gases released from each gas vent were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization Detector (PID) with 3-D sensor. The results of the combustible gas survey are included on the attached Clay Landfill Gas Vent Monitoring Summary Table.

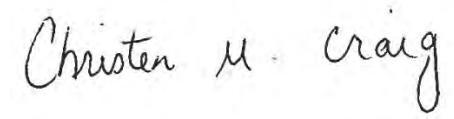
In addition to landfill gas vent monitoring, perimeter gas monitoring was also completed at the landfill. Perimeter monitoring was completed at each corner (at 90 degree intervals) of the landfill in the center of the access road. The results of the perimeter monitoring are as follows: %LEL readings were 0%; carbon monoxide and hydrogen sulfide readings were nondetectable; and the presence of total VOC concentrations was not detected. The results of perimeter monitoring indicate that landfill gases are not migrating away from the landfill at detectable concentrations.

Mr. Damian Ulatowski
July 16, 2015
Page 2

As recommended on the attached Post-Closure Field Inspection Report, brush should be removed/cut from the perimeter fence in order to prevent damage to the fence and vector holes should be filled with the appropriate fill and cover material in order to prevent damage to the landfill cap. In general, the landfill gas vents and drainage culverts appeared to be in good condition. The 2015 Third Quarter landfill inspection and combustible gas vent monitoring event is tentatively scheduled for September 2015.

Very truly yours,

C&S ENGINEERS, INC.



Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC

Town of Clay Landfill – June 17th 2015 - Post-Closure Field Inspection Report

Inspector: Wayne Randall

- The landfill cap system appears to be in good condition with the exception of small vector holes observed across the entire landfill. Vector holes should be filled with the appropriate fill and cover material.
- The landfill gas vents appear to be in good condition with no repairs needed.
- The drainage culverts appear to be in good condition with no obstructions observed.
- The perimeter fence should be cleared of all brush and limbs to prevent any damage.

6/17/2015					
CLAY LANDFILL GAS VENT MONITORING					
VENT	%LEL	CO (ppm)	H ₂ S (ppm)	PID (ppm)	Comments
GV-1	0.0	0.0	0.0	0.0	
GV-2	0.0	0.0	0.0	0.0	
GV-3	0.0	0.0	0.0	1.0	
GV-4	>100	0.0	0.0	0.0	
GV-5	>100	0.0	0.0	1.0	
GV-6	>100	0.0	0.0	1.0	
GV-7	0.0	0.0	0.0	0.0	
GV-8	>100	0.0	0.0	0.0	
GV-9	>100	0.0	0.0	0.0	
GV-10	>100	0.0	0.0	0.0	
GV-11	>100	0.0	0.0	0.0	
GV-12	0.0	0.0	0.0	0.0	
GV-13	>100	0.0	0.0	0.0	
GV-14	0.0	0.0	0.0	0.0	
GV-15	0.0	0.0	0.0	1.0	
GV-16	0.0	0.0	0.0	0.0	
GV-17	>100	0.0	0.0	0.0	
GV-18	> 100	0.0	0.0	1.0	
GV-19	0.0	0.0	0.0	1.0	
GV-20	0.0	0.0	0.0	0.0	
GV-21	> 100	0.0	0.0	0.0	
GV-22	>100	0.0	0.0	1.0	
North Boundary	0.0	0.0	0.0	0.0	
East Boundary	0.0	0.0	0.0	0.0	
South Boundary	0.0	0.0	0.0	0.0	
West Boundary	0.0	0.0	0.0	0.0	
PZ-1 Water Level	feet	41.12			

Town of Clay Landfill

Post-Closure Monitoring – June 2015



Town of Clay Landfill

Post-Closure Monitoring – June 2015



Town of Clay Landfill

Post-Closure Monitoring – June 2015



Town of Clay Landfill

Post-Closure Monitoring – June 2015



Town of Clay Landfill

Post-Closure Monitoring – June 2015





C&S Companies
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Syracuse, NY 13212
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f: (315) 455-9667
www.cscos.com

September 17, 2015

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2015 Third Quarter Landfill Inspection

File: 195.767.015

Dear Mr. Ulatowski:

In accordance with our 2015 Post-Closure Environmental Monitoring Program Agreement, the 2015 Third Quarter landfill inspection and combustible gas vent monitoring was completed on September 17, 2015. Quarterly landfill inspection is required by the NYSDEC. The landfill inspection included the inspection of the groundwater monitoring network and the landfill cap system, including the landfill gas vent system, vegetative cover, drainage swales, perimeter fence and gate, and surface water retention ponds. Items observed during the inspection are detailed on the attached Town of Clay Landfill – September 17, 2015 Post-Closure Field Inspection Report and photographs taken during the inspection are attached.

A combustible gas survey was also completed at the site on September 17, 2015. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. The combustible gases released from each gas vent were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization Detector (PID) with 3-D sensor. The results of the combustible gas survey are included on the attached Clay Landfill Gas Vent Monitoring Summary Table.

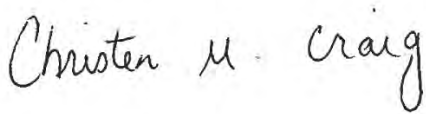
In addition to landfill gas vent monitoring, perimeter gas monitoring was also completed at the landfill. Perimeter monitoring was completed at each corner (at 90 degree intervals) of the landfill in the center of the access road. The results of the perimeter monitoring are as follows: %LEL readings were 0%; carbon monoxide and hydrogen sulfide readings were nondetectable; and the presence of total VOC concentrations was not detected. The results of perimeter monitoring indicate that landfill gases are not migrating away from the landfill at detectable concentrations.

Mr. Damian Ulatowski
September 17, 2015
Page 2

As recommended on the attached Post-Closure Field Inspection Report, brush should be removed/cut from the perimeter fence in order to prevent damage to the fence and vector holes should be filled with the appropriate fill and cover material in order to prevent damage to the landfill cap. In general, the landfill gas vents and drainage culverts appeared to be in good condition. The 2015 Fourth Quarter landfill inspection and combustible gas vent monitoring event is tentatively scheduled for November/December 2015.

Very truly yours,

C&S ENGINEERS, INC.



Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC
Mr. Terry King, Town of Clay DPW

Town of Clay Landfill – September 17, 2015 - Post-Closure Field Inspection Report

Inspector: Wayne Randall

- The landfill cap system appears to be in good condition. Some vector holes appear on the cap and should be filled with the appropriate fill and cover material.
- The landfill gas vents appear to be in good condition with no repairs needed.
- The drainage culverts appear to be in good condition with no obstructions observed.
- Brush should be removed/cut around perimeter fence to prevent damage to the fence. There are a few areas where dead tree limbs are resting on the fence. See pictures for reference.

9/17/2015					
CLAY LANDFILL GAS VENT MONITORING					
VENT	%LEL	CO (ppm)	H ₂ S (ppm)	PID (ppm)	Comments
GV-1	0.0	0.0	0.0	0.0	
GV-2	0.0	0.0	0.0	0.0	
GV-3	>100	0.0	0.0	1.0	
GV-4	0.0	0.0	0.0	0.0	
GV-5	0.0	0.0	0.0	1.0	
GV-6	>100	0.0	0.0	1.0	
GV-7	>100	0.0	0.0	0.0	
GV-8	>100	0.0	0.0	0.0	
GV-9	0.0	0.0	0.0	0.0	
GV-10	>100	0.0	0.0	0.0	
GV-11	>100	0.0	0.0	0.0	
GV-12	0.0	0.0	0.0	0.0	
GV-13	>100	0.0	0.0	0.0	
GV-14	0.0	0.0	0.0	0.0	
GV-15	0.0	0.0	0.0	1.0	
GV-16	>100	0.0	0.0	0.0	
GV-17	>100	0.0	0.0	0.0	
GV-18	> 100	0.0	0.0	1.0	
GV-19	>100	0.0	0.0	1.0	
GV-20	0.0	0.0	0.0	0.0	
GV-21	> 100	0.0	0.0	0.0	
GV-22	>100	0.0	0.0	1.0	
North Boundary	0.0	0.0	0.0	0.0	
East Boundary	0.0	0.0	0.0	0.0	
South Boundary	0.0	0.0	0.0	0.0	
West Boundary	0.0	0.0	0.0	0.0	
PZ-1 Water Level	feet	41.08			

Town of Clay Landfill

September 2015 Landfill Inspection



Town of Clay Landfill

September 2015 Landfill Inspection



Town of Clay Landfill

September 2015 Landfill Inspection



Town of Clay Landfill

September 2015 Landfill Inspection



Town of Clay Landfill

September 2015 Landfill Inspection



Town of Clay Landfill

September 2015 Landfill Inspection

