2016 ANNUAL POST-CLOSURE MONITORING REPORT

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

Prepared for:

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TOWN OF CLAY LANDFILL

2016 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 2016 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 June 28, 2016. 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 March 25, 2016, June 28, 2016, September 29, 2016, and November, 30, 2016. An interpretation and discussion of the 2016 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 June 28, 2016. 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 (H_2S), 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 two (MW-4SR, MW-9S) of the thirteen wells sampled showed VOCs above MDLs.

VOCs Detected above MDLs

		Monitoring Wells	
Parameter	**Class GA Standard**	**MW-4SR**	**MW-9S**
Benzene	1	6.3	15
Chlorobenzene	5	37	54
1,1-Dichloroethane	5		
cis-1,2-Dichloroethene	5		
1,4-Dichlorobenzene	3	5	3.2
1,2-Dichlorobenzene	3		

Note: Shading denotes parameters detected above standards or guidance values. All units are in ppb.

Overall, the greatest number of Class GA exceedences were in downgradient shallow wells MW-4SR 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. Surface water sample SW-2, a downstream location within Shaver Creek, was dry at the time of sample. The analytical report, sample characterization sheets, and chain-of-custody documentation submitted by the contract laboratory for the surface water sample collected are included in Appendix A. The analytical results for the surface water sample collected was 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 exceeded the 0.3 mg/l Class C surface water standard for iron (1.22 mg/l). 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 June 2016 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.

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

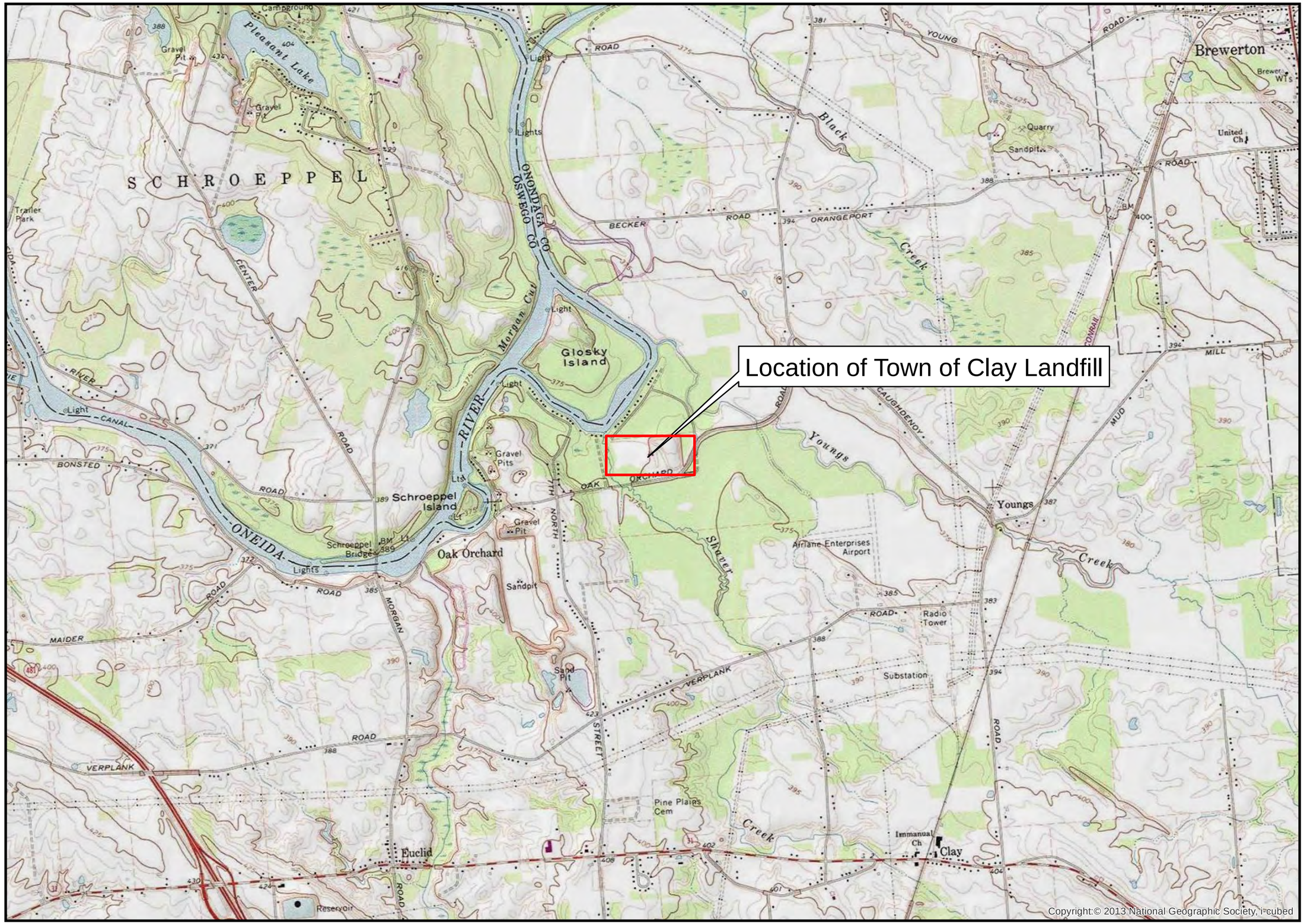
The landfill inspection and combustible gas monitoring reports that were previously submitted to the Town and the NYSDEC are attached as Appendix B. A summary of the quarterly landfill gas monitoring results is included in Table 9.

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 2016 monitoring event were consistent with historical conditions at the landfill.

FIGURES



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Feet

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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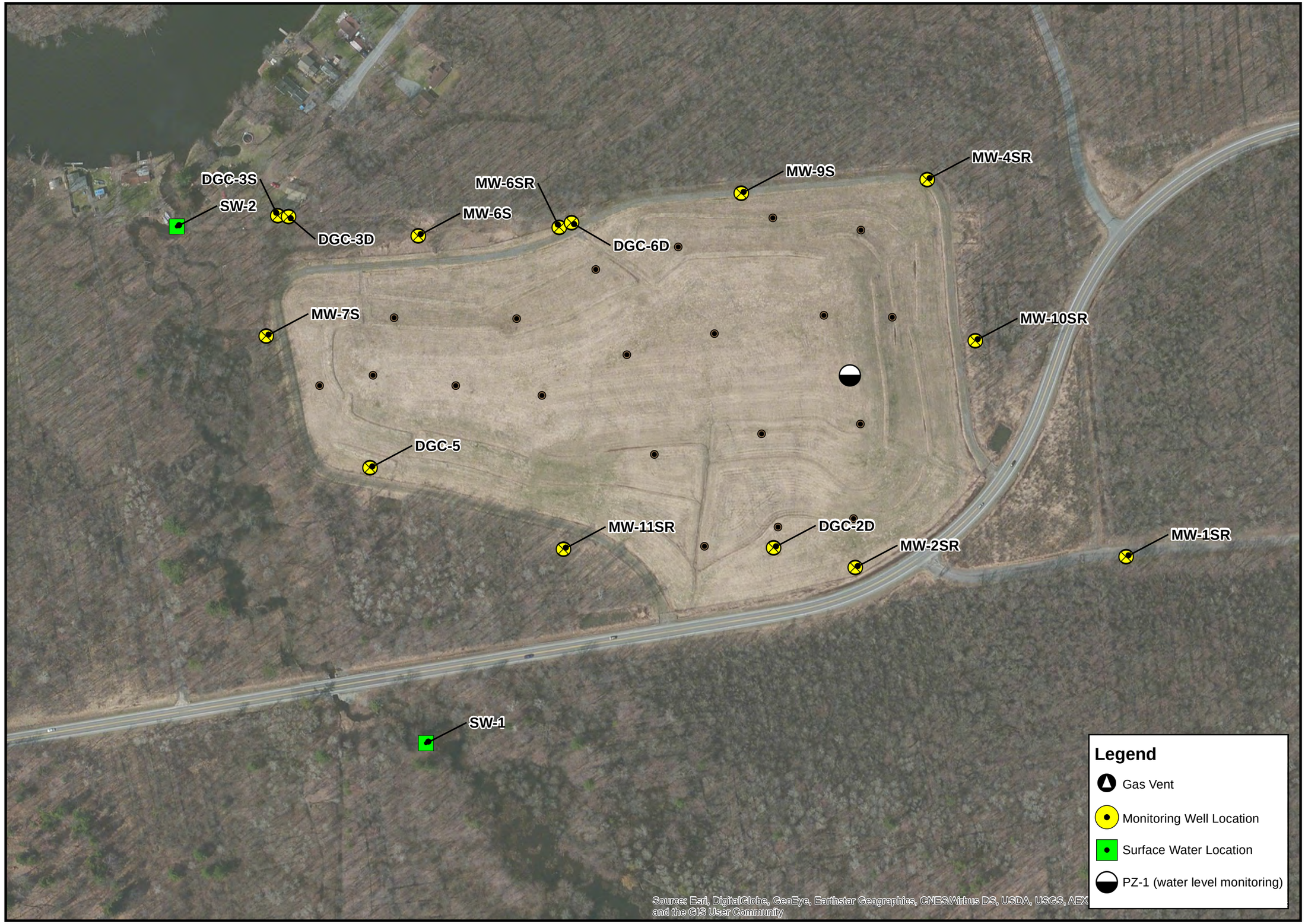
Site Location Map

FIGURE 1



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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
Shallow Monitoring Wells	**(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
Deep Monitoring Wells			
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	370.3	366.51	370.34	372.15	372.39	372.29	368.08	368.91	376.65
6/16		373.02	361.97	369.19	370.54	364.91	365.86	364.14	369.02	371.24	369.22	370.98	366.97	367.54	376.31

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 - TOWN OF CLAY LANDFILL: GROUNDWATER ANALYTICAL DATA JUNE 2016

	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				6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016
Specific Conductivity	mS/cm			0.983	0.318	2.39	0.667	0.263	0.670	1.47	2.58	0.572	0.885	0.282	0.237	2.28
Eh	MV			122	160	13	-50	56	29	-92	16	164	223	119	117	-25
Field pH	S.U.	6.5-8.5		7.53	7.56	6.89	6.96	8.28	7.21	7.71	7.19	7.53	7.52	8.39	7.83	6.81
Temperature	deg. C			18.1	14.6	16.3	16.7	18.3	15.9	16.3	17.3	16.2	17.1	15.3	15.1	17.2
Turbidity	NTU			29	118	64	22	91	15	83	73	32	18	104	52	346
TOC	mg/l			5.2	<1.0	44	6.4	< 1.0	4.0	7.9	70	1.5	11	1.6	1.6	70
Alkalinity as CaCo3	mg/l			446	166	1030	415	166	440	305	799	280	435	164	176	1060
Ammonia as N	mg/l	2		0.17	0.19	**114**	**8.03**	0.17	1.48	0.27	**117**	0.24	0.15	0.48	0.63	**41.8**
Biological Oxygen Demand	mg/l			<4.0	<4.0	8.3	<4.0	<4.0	<4.0	<4.0	21	<4.0	<4.0	<4.0	<4.0	13
Chloride	mg/l	250		110	<5	190	<10	<5	14	**330**	**400**	37	98	<5	<5	**410**
Chemical Oxygen Demand	mg/l			15	<5	164	26	10	10	26	236	<5	51	< 5	10	256
Color	units	15		<5	10	**40**	8	5	8	**20**	**40**	<5	8	5	<5	**40**
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	<0.01
Hexachrome	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	< 0.004
Nitrate as N	mg/l	10		<0.05	0.13	<0.05	< 0.05	<0.05	<0.05	0.07	0.07	0.05	0.23	0.20	<0.05	0.15
Total Hardness as CaCo3	mg/l			447	152	551	731	149	445	398	603	317	397	151	119	834
Kjeldahl Nitrogen as N	mg/l			0.73	0.95	127	9.08	<0.5	1.82	0.93	142	0.62	0.83	0.95	0.94	46.2
Phenolics, Total	mg/l	0.001		< 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, Total Dissolved	mg/l	500		**652**	178	**1050**	384	148	460	**940**	**1240**	372	**648**	192	148	**1620**
Sulfate as SO4	mg/l	250		12.9	14.9	<10.0	<10.0	15.6	17.6	14.8	<10.0	21.6	11.40	17.3	10.3	<10.0
Bromide	mg/l		2000	0.623	<0.10	2.29	0.172	<0.10	0.131	0.959	4.86	0.390	0.891	<0.10	<0.10	3.87
Mercury	mg/l	700		<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007
Aluminum	mg/l			<0.20	2.26	1.56	11.2	0.74	<0.20	0.64	9.14	0.59	0.58	2.49	1.03	2.04
Antimony	mg/l	3000		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Arsenic	mg/l	25000		<0.02	<0.02	<0.02	0.04	<0.02	<0.02	0.096	0.11	<0.02	0.036	<0.02	<0.02	0.072
Barium	mg/l	1000000		0.23	0.079	0.75	0.72	0.15	0.25	0.27	1.28	0.14	0.28	0.20	0.24	2.47
Beryllium	mg/l		3000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Boron	mg/l	1000000		0.13	0.11	0.79	<0.02	0.026	0.029	0.33	0.74	0.14	0.29	0.050	0.091	1.12
Cadmium	mg/l	5000		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Calcium	mg/l			88.8	35.9	137	206	34.9	142	74.6	129	48.6	84.8	36.9	25.8	157
Chromium	mg/l	50000		<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	200000		<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
Iron	mg/l	300000		0.86	2.86	9.81	31.8	0.97	3.23	4.90	16.7	0.88	1.04	3.15	1.44	13.3
Lead	mg/l	25000		<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		35000000	54.8	15.0	51.0	52.7	15.0	22.0	51.3	68.2	47.5	45.0	14.3	13.3	107
Manganese	mg/l	300000		0.096	0.086	0.80	1.74	0.031	0.88	0.14	0.44	0.043	0.22	0.050	0.075	0.20
Nickel	mg/l	100000		<0.02	<0.02	0.035	0.024	<0.02	<0.02	<0.02	0.053	<0.02	0.025	<0.02	<0.02	0.052
Potassium	mg/l			1.13	1.44	75.1	13.1	2.05	3.18	1.65	63.0	2.49	1.68	3.54	3.45	31.1
Selenium	mg/l	10000		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Silver	mg/l	50000		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	mg/l	20000000		67.0	20.1	162	16.9	6.86	9.45	166	200	27.0	80.7	11.8	15.2	255
Thallium	mg/l		500	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
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	<0.04
Zinc	mg/l		2000000	<0.02	<0.02	0.027	0.039	<0.02	<0.02	<0.02	0.043	<0.02	<0.02	<0.02	<0.02	<0.02

TABLE 3 - TOWN OF CLAY LANDFILL: GROUNDWATER ANALYTICAL DATA JUNE 2016

	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				6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016
Acetone	ug/l		50	< 10	< 10	< 10	18	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dichloroethane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/l	5		<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	2.5
1,1,1,2-Tetrachloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/l	0.6		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromoethane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/l	3		<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/l	3		<1	<1	5.0	<1	<1	<1	<1	3.2	<1	<1	<1	<1	<1
2-Hexanone	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	ug/l	1		<1	<1	6.3	<1	<1	<1	<1	15	<1	<1	<1	<1	<1
Bromochloromethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<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	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Carbon Disulfide	ug/l			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/l	5		<1	<1	37	<1	<1	<1	<1	54	<1	<1	<1	<1	<1
Chloroethane	ug/l			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	ug/l	7		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/l	5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
cis-1,2-Dichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4
cis-1,3-Dichloropropene	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/l	0.4		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	ug/l	5		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
MEK (2-Butanone)	ug/l		50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methyl isobutyl ketone (MIBK)	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Xylenes, total	ug/l	2		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Styrene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/l	0.4		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/l	5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Vinyl Acetate	ug/l	0.04		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	ug/l	2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

TABLE 4 - SURFACE WATER ANALYTICAL RESULTS

Parameters	Units	Class C Standard	SW-1	SW-2
Sample Collection Date			**6/28/2016**	**6/28/2016**
Specific Conductivity	ms/cm		0.563	Location Dry
Eh (mV)	mV		217	
Field pH	SU	6.5 - 8.5	7.9	
Temperature (deg. C)	deg C		27.9	
Turbidity (NTU)	NTU		29	
Dissolved Oxygen	mg/l		6.78	
TOC	mg/l		15	
Alkalinity as CaCo3	mg/l		172	
Ammonia as N	mg/l	2	0.18	
Biological Oxygen Demand	mg/l		<4.0	
Chloride	mg/l		92	
Color	Units		60	
Chemical Oxygen Demand	mg/l		36	
Nitrate as N	mg/l		<0.05	
Total Hardness as CaCo3	mg/l		161	
Kjeldahl Nitrogen as N	mg/l		0.87	
Total Phenols	mg/l	0.005	<0.010	
Solids, Dissolved	mg/l		320	
Sulfate as SO4	mg/l		<10.0	
Bromide	mg/l	2	0.117	
Cyanide, Total	mg/l	9	<0.01	
Hexavalent Chromium	mg/l	0.011	<0.004	
Boron	mg/l	10	<0.02	
Aluminum	mg/l	0.1	<0.2	
Antimony	mg/l	0.003	<0.006	
Arsenic	mg/l		<0.02	
Barium	mg/l	1	<0.053	
Beryllium	mg/l	1100	<0.002	
Cadmium	mg/l	2.7	<0.0025	
Calcium	mg/l		41.9	
Chromium	mg/l	97	<0.02	
Cobalt	mg/l	0.005	<0.02	
Copper	mg/l	11.9	<0.02	
Iron	mg/l	0.3	1.22	
Lead	mg/l	5.4	<0.02	
Magnesium	mg/l		13.6	
Manganese	mg/l		0.51	
Mercury	mg/l	0.0007	<0.0007	
Nickel	mg/l	69	<0.02	
Potassium	mg/l		1.72	
Selenium	mg/l	0.0046	<0.015	
Silver	mg/l	0.0001	<0.005	
Sodium	mg/l		51.3	
Thallium	mg/l	0.008	<0.005	
Vanadium	mg/l	0.014	<0.02	
Zinc	mg/l	109	<0.02	

TABLE 4 - SURFACE WATER ANALYTICAL RESULTS

Parameters	Units	Class C Standard	SW-1	SW-2
Sample Collection Date			**6/28/2016**	**6/28/2016**
Acrylonitrile	ug/l		<5	
Acetone	ug/l		<10	
Benzene	ug/l	1	<1.0	
Bromodichloromethane	ug/l	5	<1	
Bromoform	ug/l		<1	
Bromomethane	ug/l		<3	
2-Butanone	ug/l		<5	
Carbon Disulfide	ug/l		<2	
Carbon Tetrachloride	ug/l		<1	
Chlorobenzene	ug/l	5	<1	
Chloroethane	ug/l	5	<3	
Chloroform	ug/l	5	<1	
Chloromethane	ug/l		<3	
2-Chloroethylvinylether	ug/l		<5	
Dibromochloromethane	ug/l	7	<1	
Dichlorodifluoromethane	ug/l		<3	
1,1 Dichloroethane	ug/l	5	<1	
1,2-Dichloroethane	ug/l	5	<1	
1,1-Dichloroethene	ug/l	0.6	<1	
cis-1,2-Dichloroethene	ug/l	5	<1	
trans-1,2-Dichloroethene	ug/l	5	<1	
1,2 Dichloropropane	ug/l	5	<1	
cis-1,3-Dichloropropene	ug/l	1	<1	
trans-1,3-Dichloropropene	ug/l	0.4	<1.0	
Ethylbenzene	ug/l	0.4	<1.0	
2-Hexanone	ug/l	5	<5.0	
Methylene Chloride	ug/l	5	<5.0	
MIBK (4 methyl-2-pentanone)	ug/l		<5	
Styrene	ug/l		<1.0	
1,1,2,2-Tetrachloroethane	ug/l	5	<1.0	
Tetrachloroethene	ug/l	5	<1.0	
Toluene	ug/l	5	<1.0	
1,1,1-Trichloroethane	ug/l	5	<1.0	
1,1,2-Trichloroethane	ug/l	5	<1.0	
Trichlorofluoromethane	ug/l	5	<3.0	
Trichloroethene	ug/l	1	<1.0	
Vinyl Acetate	ug/l	0.04	<5.0	
Vinyl Chloride	ug/l	2	<2.0	
Xylenes	ug/l	2	<3.0	
1,3-Dichlorobenzene	ug/l	5	<1.0	
1,4-Dichlorobenzene	ug/l	3	<1.0	
1,2-Dichlorobenzene	ug/l	5	<1.0	
1,2-Dibromo-3-chloropropane	ug/l		<1.0	
1,2-Dibromoethane	ug/l		<1.0	
Trans-1,4-Dichloro-2-butene	ug/l	5	<5.0	
1,1,1,2-Tetrachloroethane	ug/l	5	<1.0	
1,2,3-Trichloropropane	ug/l	5	<1.0	
Bromochloromethane	ug/l	5	<1	
Dibromomethane	ug/l		<1	
Iodomethane	ug/l		<2	
Methyl ethyl ketone	ug/l	5	<5	

* Cadmium	(0.85)exp(0.7852 {ln (hardness)}-2.715
* Chromium	(0.86)exp(0.819 {ln (hardness)}+0.6848
* Copper	(0.96)exp(0.8545 {ln (hardness)}-1.702
* Lead	{1.46203-[ln (hardness) (0.145712)]}exp(1.273 [ln (hardness)]-4.297
* Nickel	(0.997)exp(0.846 [ln (hardness)]+0.0584)

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

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

TABLE 5 - DRAINAGE DITCH ANALYTICAL RESULTS

Parameter	Units	Drainage Ditch SW-3
Sample Collection Date		**6/28/2016**
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
Sample Collection Date		**6/28/2016**
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
Sample Collection Date		**6/28/2016**
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	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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	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	6.4			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	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	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	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	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	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	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	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
MW-2SR	06/28/16	122	0.983	29	7.53	18.1	<4.0	0.623	<5	<0.004	<0.05	446	110	15	0.17	12.9	0.13	<0.01	652	0.73	5.2	<0.010	447

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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				<.050	352	5.81	<10	<.1	36			376	1.11	7.1	<.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
DGC-3S	06/28/16	160	0.318	118	7.56	14.6	<4.0	<0.10	10	<0.004	0.13	166	<5	<5	0.19	14.9	0.11	<0.01	178	0.95	<1.0	<0.010	152

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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
MW-4SR	06/28/16	13	2.39	64	6.89	16.3	8.3	2.29	40	<0.004	<0.05	1030	190	164	114	<10.0	0.79	<0.01	1050	127	44	<0.010	551

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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
DGC-5	06/28/16	-50	0.667	22	6.96	16.7	<4.0	0.172	8	<0.004	<0.05	415	<10	26	8.03	<10.0	<0.02	<0.01	384	9.08	6.4	<0.010	731

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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
MW-6SR	06/28/16	56	0.263	91	8.28	18.3	<4.0	<0.10	5	<0.004	<0.05	166	<5	10	0.17	15.6	0.026	<0.01	148	<0.5	<1.0	<0.010	149

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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
MW-7S	06/28/16	29	0.67	15	7.21	15.9	<4.0	0.131	8	<0.004	<0.05	440	14	10	1.48	17.6	0.029	<0.01	460	1.82	4	<0.010	445

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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	58	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	9.35	1.58	13.3	<0.010	371
MW-8S	06/28/16	-92	1.47	83	7.71	16.3	<4.0	0.959	20	<0.004	0.07	305	330	26	0.27	14.8	0.33	<0.01	940	0.93	7.9	<0.010	398

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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
MW-9S	06/28/16	16	2.58	73	7.19	17.3	21	4.86	40	<0.004	0.07	799	400	236	117	<10.0	0.74	<0.01	1240	142	70	<0.010	603

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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				<.05	347	53.2	<10	<.1	30			409	2.1	1.4	<.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
MW-10SR	06/28/16	164	0.572	32	7.53	16.2	<4.0	0.39	<5	<0.004	0.05	280	37	<5	0.24	21.6	0.14	<0.01	372	0.62	1.5	<0.010	317

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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
MW-11SR	06/28/16	223	0.885	18	7.52	17.1	<4.0	0.892	8	<0.004	0.23	435	98	51	0.15	11.4	0.29	<0.01	648	0.83	11	<0.010	397

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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
DGC-2D	06/28/16	119	0.282	104	8.39	15.3	<4.0	<0.100	5	<0.004	0.2	164	<5	<5	0.48	17.3	0.05	<0.01	192	0.95	1.6	<0.010	151

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Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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	250	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
DGC-3D	06/28/16	117	0.237	52	7.83	15.1	<4.0	<0.10	<5	<0.004	<0.05	176	<5	10	0.63	10.3	0.091	<0.01	148	0.94	1.6	<0.010	119

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Bromide	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	mS/cm	NTU	SU	degC	mg/l	mg/L	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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				<.05	189	<1	<10	<.1	19			153	<1	<1	<.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	54	<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
DGC-6D	06/28/16	-25	2.28	346	6.81	17.2	13	3.87	40	<0.004	0.15	1060	410	256	41.8	<10.0	1.12	<0.01	1620	46.2	70	<0.010	834

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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	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
MW-2SR	06/28/16	<0.2	<0.006	<0.02	0.23	<0.002	<0.0025	88.8	<0.02	<0.02	0.86	<0.02	54.8	0.096	<0.0007	<0.02	1.13	<0.015	<0.005	67	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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*
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	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	120			12	0.042	42	0.32			<1			20			
DGC-3S	02/17/99						<0.01	87			5.2	<0.01	26	0.27			1.3			8			
DGC-3S	03/30/99						<0.005	79			0.236	0.002	21.5	0.191			<0.500			8.52			
DGC-3S	06/29/99						<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	48.4	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	0.0.93	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
DGC-3S	06/28/16	2.26	<0.006	<0.02	0.079	<0.002	<0.0025	35.9	<0.02	<0.02	2.86	<0.02	15	0.086	<0.0007	<0.02	1.44	<0.015	<0.005	20.1	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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						<.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
MW-4SR	06/28/16	1.56	<0.006	<0.02	0.75	<0.002	<0.0025	137	<0.02	<0.02	9.81	<0.02	51	0.8	<0.0007	0.035	75.1	<0.015	<0.005	162	<0.005	<0.02	0.027

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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*
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	490			70	0.041	180	3.6			62			110			
DGC-5	11/18/97						<0.01	700			130	0.07	250	8.4			49			82			
DGC-5	04/28/98						<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	990			230	0.28	310	7			23			210			
DGC-5	02/17/99						<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	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						<.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	115			38.7	0.003	19.5	3.1			3.1			5.92			
DGC-5	09/21/00						<0.005	178			48.6	0.003	39.3	3.39			9.96			24.6			
DGC-5	12/06/00	140	<0.003	0.3	3.2	0.006	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	262			49.3	0.02	95	1.8			57.9			190			
DGC-5	12/04/01						<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
DGC-5	06/28/16	11.2	<0.006	0.04	0.72	<0.002	<0.0025	206	<0.02	<0.02	31.8	<0.02	52.7	1.74	<0.0007	0.024	13.1	<0.015	<0.005	16.9	<0.005	<0.02	0.039

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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	12/06/00	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
MW-6SR	06/28/16	0.74	<0.006	<0.02	0.15	<0.002	<0.0025	34.9	<0.02	<0.02	0.97	<0.02	15	0.031	<0.0007	<0.02	2.05	<0.015	<0.005	6.86	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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	8.7	<0.06	0.076	0.43	<0.01	<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						<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						<.005	170			52	<.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	<0.1	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
MW-7S	06/28/16	<0.2	<0.006	<0.02	0.25	<0.002	<0.0025	142	<0.02	<0.02	3.23	<0.02	22	0.88	<0.0007	<0.02	3.18	<0.015	<0.005	9.45	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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	<.001	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	<0.0.1	150	0.027	0.027	35	<0.01	68	1.2	<0.0002	0.37	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-8S	06/28/16	0.64	<0.006	0.096	0.27	<0.002	<0.0025	74.6	<0.02	<0.02	4.9	<0.02	51.3	0.14	<0.0007	<0.02	1.65	<0.015	<0.005	166	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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
MW-9S	06/28/16	9.14	<0.006	0.11	1.28	<0.002	<0.0025	129	<0.02	<0.02	16.7	<0.02	68.2	0.44	<0.0007	0.053	63	<0.015	<0.005	200	<0.005	<0.02	0.043

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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
MW-10SR	06/28/16	0.59	<0.006	<0.02	0.14	<0.002	<0.0025	48.6	<0.02	<0.02	0.88	<0.02	47.5	<0.043	<0.0007	<0.02	2.49	<0.015	<0.005	27	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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-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						<.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	12/06/00	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
MW-11SR	06/28/16	0.58	<0.006	0.036	0.28	<0.002	<0.0025	84.8	<0.02	<0.02	1.04	<0.02	45	0.22	<0.0007	0.025	1.68	<0.015	<0.005	80.7	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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*
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						<.005	16.3			0.94	<.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
DGC-2D	06/28/16	2.49	<0.006	<0.02	0.2	<0.002	<0.0025	36.9	<0.02	<0.02	3.15	<0.02	14.3	0.05	<0.0007	<0.02	3.54	<0.015	<0.005	11.8	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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*
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	<0.01	19	<0.03		0.16
DGC-3D	08/27/97						0.026	730			200	0.25	280	8.1			38			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	<.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
DGC-3D	06/28/16	1.03	<0.006	<0.02	0.24	<0.002	<0.0025	25.8	<0.02	<0.02	1.44	<0.02	13.3	<0.075	<0.0007	<0.02	3.45	<0.015	<0.005	15.2	<0.005	<0.02	<0.02

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	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*
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
DGC-6D	06/28/16	2.04	<0.006	0.072	2.47	<0.002	<0.0025	157	<0.02	<0.02	13.3	<0.02	107	0.2	<0.0007	0.052	31.1	<0.015	<0.005	255	<0.005	<0.04	<0.02

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

Monitoring Well	Date Sampled	Eh	Cond(fld)	Turb(fld)	pH	Temp	BOD-5	Color	Hex-Cr	NO3	Alk	Cl-	COD	NH3	SO4	B	Br	CN-	TDS	TKN	TOC	Phenols	Hard
Units		mV	umhos/cm	NTU	SU	degC	mg/l	PCCU	mg/l	mg/l	mg/lCaCO3	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/lCaCO3
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	182
SW-1	09/30/99	-12	950	8.2	7.71	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			<.05	97.5	77.1	14.2	<.1	48				338	<1	11	<.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	<0.02	0.131	<0.01	284	0.68	9.69	<0.010	139
SW-1	06/28/16	217	0.563	29	7.9	27.9	<4.0	60	<0.004	<0.05	172	92	36	0.18	<10.0	<0.02	0.117	<0.01	320	0.87	15	<0.010	161
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			<.05	129	79.9	17.6	<.1	44				326	2.4	11	0.00729	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	<0.03	35	<0.5		<0.01	200	1.2	5.7	<0.003	140
SW-2	12/16/2008	126	252	0	8.3	0.2	<4	30	<0.01	<0.1	110	52	20	0.23	9.3	<0.5		<0.01	200	0.42	7.5	<0.003	120
SW-2	6/10/2010	193.4	200	12.23	7.53	18.2	<4	20	<0.004	<0.5	203	34	36	0.11	37.9	<0.1		<0.005	196	1.64	6.8	<0.010	130
SW-2	6/13/2011	-59.4	540	302	7.23	18.1	83	35	<0.004	<0.05	313	6	1020	1.13	129	<0.1		<0.005	405	24.8	72.2	<0.010	242
SW-2	9/20/2012	77	568	24	7.33	19.3	<24	35	<0.004	0.06	180	60	41	0.31	6.48	<0.1	<80	<0.005	351	1.32	11.9	<0.010	335
SW-2	11/25/2013	-68	0.751	22.5	7.47	3.4	<24	25	<0.004	<0.05	472	28	49	0.17	8.39	0.065	<1.0	<0.01	4628	1	14.7	<0.010	582
SW-2	4/21/2015	-31	0.533	0	7.31	9.53	<4.0	15	<0.004	<0.05	316	9	14	0.1	<10.0	0.047	0.25	<0.01	360	<0.5	7.78	<0.010	298
SW-2	6/28/2016	Sample Location Dry										Sample Location Dry											

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

Monitoring Well	Date Sampled	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	Zn
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
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						<0.01	56			2.3	<0.01	14	0.35			2.1			40		
SW-1	11/18/97						<0.01	42			0.39	<0.01	12	0.024			3.4			39		
SW-1	4/28/98						<0.01	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						<0.01	52			0.61	0.016	14	0.12			<1			50		
SW-1	02/17/99						<0.01	70			60	0.073	8.6	7.8			4.2			120		
SW-1	03/29/99						<0.005	18.3			0.138	<0.001	4.81	<0.005			0.871			11.9		
SW-1	06/29/99						<0.005	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						<.005	49.9			0.24	<.001	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	0.048	<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												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-1	06/28/16	<0.2	<0.006	<0.02	0.053	<0.002	<0.0025	41.9	<0.02	<0.02	1.22	<0.02	13.6	0.51	<0.0007	<0.02	1.72	<0.015	<0.005	51.3	<0.005	<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						<0.01	33			0.35	<0.01	7.9	0.18			1.4			8.7		
SW-2	11/18/97						<0.01	41			0.46	<0.01	12	0.045			3.5			41		
SW-2	4/28/98						<0.01	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						<0.01	51			0.62	0.022	14	0.3			<1			49		
SW-2	03/29/99						<0.005	20.3			0.411	<0.001	5.46	0.006			0.992			13.3		
SW-2	06/29/99						<0.005	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						<.005	50.5			0.188	<.001	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	35	<0.01	<0.01	1.2	0.01	8.9	0.15	<0.0002	0.011	2.4	<0.01	<0.01	34	<0.01	0.057
SW-2	6/10/2010	<0.20	<0.02	<0.02	0.04	<0.02	<0.02	37	<0.02	<0.02	0.21	0.02	9.3	0.13	<0.001	<0.02	1.2	<0.02	<0.02	18	<0.02	<0.02
SW-2	6/13/2011	46	<0.02	0.2	1.4	<0.02	<0.02	69	0.04	0.04	270	0.11	17	0.39	<0.001	0.04	5.1	<0.02	<0.02	5.1	0.013	<0.02
SW-2	9/20/2012	<0.20	<0.02	<0.02	0.13	<0.02	<0.02	53	<0.02	<0.02	1.2	<0.02	15	1.9	<0.0008	<0.02	3	<0.02	<0.02	49	<0.01	<0.02
SW-2	11/25/2013	0.43	<0.024	<0.02	0.19	<0.02	<0.02	136	<0.02	<0.02	7.2	<0.02	34	0.59	<0.0008	<0.02	1.5	<0.02	<0.02	12	<0.01	<0.02
SW-2	4/21/2015	0.43	<0.012	<0.02	0.11	<0.02	<0.02	90.5	<0.02	<0.02	2.39	<0.02	17.5	0.26	<0.0002	<0.02	6.64	<0.02	<0.02	8.78	<0.010	<0.02
SW-2	6/28/2016	Sample Location Dry												Sample Location Dry								

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-Dibromoethane	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	<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	6/28/2016
EPA 8260																			
Acetone	ug/l	<10	<10	<25	<25	<25	<25	<25	<10	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l													<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l													<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l													<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<1.0
Tetrachloroethene	ug/l	<5	<5	<5	<5	<5	<5	--	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	<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	<1.0
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	<1.0
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	<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	<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	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	<5	<5	<5	<5	--	<5	<1	<1	<1	<1	<1.0	<1.0	<1.0	<1	<1.0	<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	<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	<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	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<25	<10	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	<10	<10	<40	<10	<25	<25	<25	<25	<25	<10	<10	<10	<10	***21***	<10	<50	<10	<10	<10	<10.0
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	<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***	***6.3***
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	<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	<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	<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	<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	<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	<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	<1.0
Chlorobenzene	ug/l	***14***	***23***	***42***	***38***	***68***	***92***	***39***	<5	***48***	***45***	***47***	***66***	***47***	***64***	***61***	***79***	***88***	***45***	***34***	***37***
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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<25	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<10	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<5.0	<1.0	NA	<1.0	<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***	***1.3***
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***	***5***
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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	<10	<10	<40	<10	***39***	<25	<25	<25	<25	***15***	***24***	<10	<10	***25***	***13***	<10	***16***	<10	<10	***18***
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	<5
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	<1
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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	***12***	<10	<40	<10	***30***	<25	***27***	<25	<25	<10	<10	<10	<10	<10	<10	<10	***15***	<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	<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***	<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	<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	<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	<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	<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	<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	<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	<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***	<1.0
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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	***4.5***	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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***	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<20	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	***1.6***	<1	<1.0	<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	<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***	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																				
Acetone	ug/l	<10	***29***	***19***	<10	***33***	<25	<25	<25	<25	<10	***20***	<10	***13***	<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	<5.0	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	--	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0	<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	<1.0
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	<1.0
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	<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	<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	<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	<1.0	<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	<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	<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	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	<10	<10	<10	<10	***62***	<25	<25	<25	<25	<10	***120***	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<3.0

NA - Not Analyzed

Bold & Italics - 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	6/28/2016
EPA 8260												
Acetone	ug/l	<10	<10	<25	<10	<10	<10	<10	<50	<10	<10	<10
Acrylonitrile	ug/l	NA	NA	<20	<5	<5	<20	<5.0	<25	<5	<5.0	<5.0
Benzene	ug/l	***13***	***13***	***6***	***10***	***9.7***	<1	***14***	***18***	***14***	***8.7***	***15***
Bromochloromethane	ug/l	NA	***NA***	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Bromodichloromethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Bromomethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0	<3.0
2-Butanone (MEK)	ug/l	<10	<10	<25	<10	<10	<10	<5.0	<25	<10	<5.0	<5.0
Carbon Disulfide	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<2.0	<2.0
Carbon Tetrachloride	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Chlorobenzene	ug/l	***130***	***89***	***15***	***32***	***33***	<1	***50***	***57***	***66***	***32***	***54***
Chloroethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0	<3.0
Chloromethane	ug/l	<10	<10	<5	<5	<1	<1	<2.0	<10	<1	<3.0	<3.0
2-chloroethylvinylether	ug/l							<5.0	<25	NA	<5.0	<5.0
Chloroform (Trichloromethane)	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Dibromochloromethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Dichlorodifluoromethane	ug/l							<2.0	<10	NA	<3.0	<3.0
1,2-Dibromo-3-chloropropane	ug/l	NA	NA	<20	<5	<1	<1	<1.0	<5.0	<5	<1.0	<1.0
1,2-Dibromoethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Dibromomethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,3 -Dichlorobenzene	ug/l							<1.0	<5.0	NA	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	NA	NA	<2	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	NA	NA	<2	<5	***1.5***	<1	***1.5***	<5.0	***3.6***	***3.5***	***3.2***
trans-1,4-Dichloro-2-butene	ug/l	NA	NA	<5	<5	<5	<5	<5.0	<25	<5	<5.0	<5.0
1,1-Dichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,2-Dichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,1-Dichloroethene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
cis-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
trans-1,2-Dichloroethene	ug/l	NA	NA	NA	NA	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,2-Dichloropropane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
cis-1,3,Dichloropropene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
trans-1,3-Dichloropropene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Ethylbenzene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
2-Hexanone	ug/l	<10	<10	<10	<10	<10	<10	<5.0	<25	<5	<5.0	<5.0
Iodomethane	ug/l	NA	NA	<5	<5	<1	<5	<1.0	<5.0	<2	<4.0	<2.0
Methylene Chloride	ug/l	<10	***1***	<5	<10	<2	<1	<5.0	<25	<2	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	ug/l	<10	<10	<10	<10	<10	<10	<5.0	<25	<5	<5.0	<5.0
Styrene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Tetrachloroethene	ug/l	<10	<10	--	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Toluene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Trichloroethene	ug/l	<10	<10	<5	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Trichlorofluoromethane	ug/l	NA	NA	<5	<5	<1	<1	<1.0	<5.0	<1	<3.0	<3.0
1,2,3-Trichloropropane	ug/l	NA	NA	--	<5	<1	<1	<1.0	<5.0	<1	<1.0	<1.0
Vinyl Acetate	ug/l	NA	NA	<5	<10	<5	<5	<5.0	<25	<2	<5.0	<5.0
Vinyl Chloride	ug/l	<10	<10	<2	<5	<1	<1	<1.0	<5.0	<1	<2.0	<2.0
Total Xylene	ug/l	***6***	***7***	<5	***8.4***	***5.6***	<1	<3.0	<15	***1.5***	<3.0	<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	6/28/2016
EPA 8260																					
Acetone	ug/l	***28***	<10	<10	<10	<25	<25	<25	<25	<25	<10	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l															<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l															<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l															<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<3.0

NA - Not Analyzed

Bold & Italics - 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	6/28/2016
EPA 8260																			
Acetone	ug/l	<10	<10	<10	<10	<25	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10.0
Acrylonitrile	ug/l	NA	NA	NA	NA	<20	<5	<5	<20	<5	<5	<20	<20	<20	<5.0	<5.0	<5	<5.0	<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	<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	<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	<1.0
Bromoform (Tribromomethane)	ug/l	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
Methylene Chloride	ug/l	***2***	***2***	<10	<10	<5	<5	<5	<5	<10	<2	<5	<1	<1	<5.0	<5.0	<2	<5.0	<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	<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	<1.0
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	<1.0
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	<1.0
Tetrachloroethene	ug/l	<10	<10	<5	<5	<5	<5	<5	--	<5	<1	<1	<1	<1	<1.0	<1.0	<1	<1.0	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																				
Acetone	ug/l	<10	<10	<10	<25	<25	<25	<25	<25	<10	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																				
Acetone	ug/l	***12***	<10	<10	<25	<25	<25	<25	<25	<10	<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	<5
Benzene	ug/l	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<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	6/28/2016
EPA 8260																				
Acetone	ug/l	***21***	<10	<10	<25	<25	<25	<25	<25	<10	<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	<5.0
Benzene	ug/l	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<3.0
2-chloroethylvinylether	ug/l														<5.0	<5.0	<5.0	NA	<5.0	<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	<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	<1.0
Dichlorodifluoromethane	ug/l														<2.0	<2.0	<2.0	NA	<3.0	<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	<1.0
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	<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	<1.0
1,3 -Dichlorobenzene	ug/l														<1.0	<1.0	<1.0	NA	<1.0	<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	<1.0
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	<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	<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	***2.5***
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	<1.0
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	<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	***1.4***
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	<1.0
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	<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	<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	<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	<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	<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	<2.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<1.0
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	<1.0
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	<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	<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	<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	<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	<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	<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	<3.0

NA - Not Analyzed

Bold & Italics - Substances detected above method d

TABLE 9 - 2016 QUARTERLY LANDFILL GAS VENT MONITORING

Date Monitored	*3/25/2016*	*6/28/2016*	*9/29/2016*	*11/30/2016*	*3/25/2016*	*6/28/2016*	*9/29/2016*	*11/30/2016*	*3/25/2016*	*6/28/2016*	*9/29/2016*	*11/30/2016*	*3/25/2016*	*6/28/2016*	*9/29/2016*	*11/30/2016*
GAS VENT	**%LEL**	**%LEL**	**%LEL**	**%LEL**	**CO (ppm)**	**CO (ppm)**	**CO (ppm)**	**CO (ppm)**	**H_2S (ppm)**	**H_2S (ppm)**	**H_2S (ppm)**	**H_2S (ppm)**	**PID (ppm)**	**PID (ppm)**	**PID (ppm)**	**PID (ppm)**
GV-1	0.0	0.0	0.0	0.0	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-2	0.0	0.0	0.0	0.0	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-3	>100	0.0	0.0	>100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
GV-4	0.0	0.0	0.0	0.0	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-5	0.0	0.0	>100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
GV-6	>100	0.0	0.0	>100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
GV-7	>100	>100	>100	>100	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-8	0.0	0.0	0.0	0.0	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-9	0.0	0.0	0.0	0.0	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-10	>100	>100	>100	>100	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-11	>100	>100	>100	>100	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-12	0.0	0.0	0.0	>100	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	>100	>100	>100	>100	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-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	0.0	0.0	0.0	0.0
GV-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
GV-16	0.0	0.0	>100	>100	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-17	>100	>100	>100	>100	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-18	> 100	> 100	> 100	> 100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
GV-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	0.0	0.0	0.0	0.0
GV-21	> 100	> 100	> 100	> 100	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-22	>100	>100	>100	>100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	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	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	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	0.0	0.0	0.0	0.0

APPENDIX A

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

TOWN OF CLAY LANDFILL: GROUNDWATER ANALYTICAL DATA JUNE 2016

	UNITS	Class GA Standard	Class GA Guidance	MW-2SR	DGC-3S	DGC-5	MW-6SR	MW-7S	MW-8S	MW-9S	MW-10SR	DGC-2D	DGC-6D	DGC-3D	MW-4SR	MW-11SR	SW-1	SW-2
Date Sampled				6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	
Specific Conductivity (field)	mS/cm			0.983	0.318	0.667	0.263	0.670	1.47	2.58	0.572	0.282	2.28	0.237	2.39	0.885	0.563	
Eh (field)	MV			122	160	-50	56	29	-92	16	164	119	-25	117	13	223	217	
Field pH	S.U.	6.5-8.5		7.53	7.56	6.96	8.28	7.21	7.71	7.19	7.53	8.39	6.81	7.83	6.89	7.52	7.90	
Temperature (field)	deg. C			18.1	14.6	16.7	18.3	15.9	16.3	17.3	16.2	15.3	17.2	15.1	16.3	17.1	27.9	
Turbidity (field)	NTU			29	118	22	91	15	83	73	32	104	346	52	64	18	29	
TOC	mg/l			5.2	<1.0	6.4	< 1.0	4.0	7.9	70	1.5	1.6	70	1.6	44	11	15	
Alkalinity as CaCo3	mg/l			446	166	415	166	440	305	799	280	164	1060	176	1030	435	172	
Ammonia as N	mg/l	2		0.17	0.19	**8.03**	0.17	1.48	0.27	**117**	0.24	0.48	**41.8**	0.63	**114**	0.15	0.18	
Biological Oxygen Demand	mg/l			<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	21	<4.0	<4.0	13	<4.0	8.3	<4.0	<4.0	
Chloride	mg/l	250		110	<5	<10	<5	14	**330**	**400**	37	<5	**410**	<5	190	98	92	
Chemical Oxygen Demand	mg/l			15	<5	26	10	10	26	236	<5	< 5	256	10	164	51	36	
Color	units	15		<5	10	8	5	8	**20**	**40**	<5	5	**40**	<5	**40**	8	**60**	
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	<0.01	<0.01	
Hexachrome	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	< 0.004	<0.004	
Nitrate as N	mg/l	10		<0.05	0.13	< 0.05	<0.05	<0.05	0.07	0.07	0.05	0.20	0.15	<0.05	<0.05	0.23	<0.05	
Total Hardness as CaCo3	mg/l			447	152	731	149	445	398	603	317	151	834	119	551	397	161	
Kjeldahl Nitrogen as N	mg/l			0.73	0.95	9.08	<0.5	1.82	0.93	142	0.62	0.95	46.2	0.94	127	0.83	0.87	
Phenolics, Total	mg/l	0.001		< 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	< 0.010	
Solids, Total Dissolved	mg/l	500		**652**	178	384	148	460	**940**	**1240**	372	192	**1620**	148	**1050**	**648**	320	
Sulfate as SO4	mg/l	250		12.9	14.9	<10.0	15.6	17.6	14.8	<10.0	21.6	17.3	<10.0	10.3	<10.0	11.40	<10.0	
Bromide	mg/l		2000	0.623	<0.10	0.172	<0.10	0.131	0.959	4.86	0.390	<0.10	3.87	<0.10	2.29	0.891	0.117	
Mercury	mg/l	700		<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	
Aluminum	mg/l			<0.20	2.26	11.2	0.74	<0.20	0.64	9.14	0.59	2.49	2.04	1.03	1.56	0.58	<0.20	
Antimony	mg/l	3000		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
Arsenic	mg/l	25000		<0.02	<0.02	0.04	<0.02	<0.02	0.096	0.11	<0.02	<0.02	0.072	<0.02	<0.02	0.036	<0.02	
Barium	mg/l	1000000		0.23	0.079	0.72	0.15	0.25	0.27	1.28	0.14	0.20	2.47	0.24	0.75	0.28	0.053	
Beryllium	mg/l		3000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Boron	mg/l	1000000		0.13	0.11	<0.02	0.026	0.029	0.33	0.74	0.14	0.050	1.12	0.091	0.79	0.29	<0.02	
Cadmium	mg/l	5000		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
Calcium	mg/l			88.8	35.9	206	34.9	142	74.6	129	48.6	36.9	157	25.8	137	84.8	41.9	
Chromium	mg/l	50000		<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	<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	<0.02	
Copper	mg/l	200000		<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	<0.02	
Iron	mg/l	300000		0.86	2.86	31.8	0.97	3.23	4.90	16.7	0.88	3.15	13.3	1.44	9.81	1.04	1.22	
Lead	mg/l	25000		<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	<0.02	
Magnesium	mg/l		35000000	54.8	15.0	52.7	15.0	22.0	51.3	68.2	47.5	14.3	107	13.3	51.0	45.0	13.6	
Manganese	mg/l	300000		0.096	0.086	1.74	0.031	0.88	0.14	0.44	0.043	0.050	0.20	0.075	0.80	0.22	0.51	
Nickel	mg/l	100000		<0.02	<0.02	0.024	<0.02	<0.02	<0.02	0.053	<0.02	<0.02	0.052	<0.02	0.035	0.025	<0.02	
Potassium	mg/l			1.13	1.44	13.1	2.05	3.18	1.65	63.0	2.49	3.54	31.1	3.45	75.1	1.68	1.72	
Selenium	mg/l	10000		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Silver	mg/l	50000		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Sodium	mg/l	20000000		67.0	20.1	16.9	6.86	9.45	166	200	27.0	11.8	255	15.2	162	80.7	51.3	
Thallium	mg/l		500	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium	mg/l			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	
Zinc	mg/l		2000000	<0.02	<0.02	0.039	<0.02	<0.02	<0.02	0.043	<0.02	<0.02	<0.02	<0.02	0.027	<0.02	<0.02	

TOWN OF CLAY LANDFILL: GROUNDWATER ANALYTICAL DATA JUNE 2016

	UNITS	Class GA Standard	Class GA Guidance	MW-2SR	DGC-3S	DGC-5	MW-6SR	MW-7S	MW-8S	MW-9S	MW-10SR	DGC-2D	DGC-6D	DGC-3D	MW-4SR	MW-11SR	SW-1	SW-2
Date Sampled				6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	6/28/2016	
Acetone	ug/l		50	< 10	< 10	18	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
1,2-Dichloroethane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethane	ug/l	5		<1	<1	<1	1.3	<1	<1	<1	<1	<1	2.5	<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,1-Trichloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1,2-Trichloroethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,1-Dichloroethene	ug/l	0.6		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dibromo-3-chloropropane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dibromoethane	ug/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	ug/l	3		<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,4-Dichlorobenzene	ug/l	3		<1	<1	<1	<1	<1	<1	3.2	<1	<1	<1	<1	5.0	<1	<1	
2-Hexanone	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Benzene	ug/l	1		<1	<1	<1	<1	<1	<1	15	<1	<1	<1	<1	6.3	<1	<1	
Bromochloromethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromodichloromethane	ug/l		50	<1	<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	<1	
Bromomethane	ug/l	5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Carbon Disulfide	ug/l			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Carbon Tetrachloride	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzene	ug/l	5		<1	<1	<1	<1	<1	<1	54	<1	<1	<1	<1	37	<1	<1	
Chloroethane	ug/l			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	ug/l	7		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloromethane	ug/l	5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
cis-1,2-Dichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4	<1	<1	<1	<1	
cis-1,3-Dichloropropene	ug/l	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Dibromochloromethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ethylbenzene	ug/l	0.4		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Iodomethane	ug/l	5		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
MEK (2-Butanone)	ug/l		50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Methyl isobutyl ketone (MIBK)	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Methylene Chloride	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Xylenes, total	ug/l	2		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Styrene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Toluene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-Dichloropropene	ug/l	0.4		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	ug/l	5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	ug/l	5		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Trichlorofluoromethane	ug/l	5		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Vinyl Acetate	ug/l	0.04		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	ug/l	2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716727 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1440	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	110.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T < 5	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	12.9	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	652.	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716728 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1440	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	< 5.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 10	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.13	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	14.9	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	178.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716729 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1440	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	< 10.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 8	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	< 10.0	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	384.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716730 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1440	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	< 5.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 5	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	15.6	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	148.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716731 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	14.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 8	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	17.6	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	460.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716732 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	330.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 20	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.07	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	14.8	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	940.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716733 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	21.	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	400.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 40	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.07	mg/L
Sulfate-97,-11	SM4500SO4E	06/30/16	0915	RRB	< 10.0	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	1240.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716734 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	37.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T < 5	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.05	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	21.6	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	372.	mg/L

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

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716735 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	< 5.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 5	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.20	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	17.3	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	192.	mg/L

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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716736 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	13.	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	410.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T 40	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.15	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	< 10.0	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	1620.	mg/L

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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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716737 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	< 5.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1234	JDC	T < 5	units
Hexavalent Chromium	EPA 7196A	06/29/16	0950	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	10.3	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	148.	mg/L

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)

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

CES BATCH NO: 7+2029 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716727	6-28-16	1150	GW	Grab	MW-2SR	12	X										pH 7.53
728		1020			DGC-3S	12	X										pH 7.50
~~729~~					MW-4SR	12	X										
729		1230			DGC-5	12	X										pH 6.96
730		1330			MW-6SR	12	X										pH 8.28
731		1245			MW-7S	12	X										pH 7.21
732		1300			MW-8S	12	X										pH 7.71
733		1415			MW-9S	12	X										pH 7.19
734		1105			MW-10SR	12	X										pH 7.53
			↓	↓	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:		1415 1515 6-28-16	Name: Ryan Shedora
Signature:			Signature:
Name: Ryan Shedora	6/28/16	1515	Name: K C Crump
Signature:			Signature: K C Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C IC

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

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

CES BATCH NO: 72029 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716735		1130	GW	Grab	DGC-2D	12	X										pH 8.39
736		1400	"	"	DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
737		1000	GW	Grab	DGC-3D												pH 7.83

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zahs	6/28/16	1430	Name: Ryan Sheehan
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C ICE

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72029

	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.)

H_2SO_4 WC HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 Approved by: AG Date Put In Place: 10/9/14

CES Certified Environmental Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716738 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	0.623	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

CES Certified Environmental Services, Inc.

7280 Caswell Street
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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716739 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	< 0.100	mg/L

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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716740 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	0.172	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716741 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	< 0.100	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
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Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716742 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	0.131	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
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CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716743 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	0.959	mg/L

Note: Analysis performed by ELAP #11393.

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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716744 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	4.86	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716745 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
BROMIDE	SM15 p.44	06/30/16		SA	0.390	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
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CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716746 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	< 0.100	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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716747 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
BROMIDE	SM15 p.44	06/30/16		SA	3.87	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
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CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716748 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
BROMIDE	SM15 p.44	06/30/16		SA	< 0.100	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)

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

CES BATCH NO: ~~AT~~ 72030/7203 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716738	6-28-16	1150	GW	Grab	MW-2SR	12	X										pH 7.53
739		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
740		1230			DGC-5	12	X										pH 6.96
741		1330			MW-6SR	12	X										pH 8.28
742		1245			MW-7S	12	X										pH 7.21
743		1300			MW-8S	12	X										pH 7.7
744		1415			MW-9S	12	X										pH 7.19
745		1105			MW-10SR	12	X										pH 7.53
			↓	↓	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C

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

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

CES BATCH NO: 72030 / 72031 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716746		1130	GW	Grab	DGC-2D	12	X										pH 8.59
747		1400			DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
748		1000	GW	Grab	DGC-3D												pH 7.63

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print): _____

Signature: _____

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zahs Signature:	6/28/16	1430	Name: Ryan Sheehan Signature:
Name: Signature:	6/28/16	1515	Name: K Crump Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C ICE

CES
Conestoga-Rovers & Associates, Inc.
7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: C+S

Batch Number: 7 2030 / 7 2031

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES 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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716749 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/08/16		RRB	15.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.17	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.73	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

7280 Caswell Street
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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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716750 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/08/16		RRB	< 5.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.19	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.95	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716751 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/08/16		RRB	26.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	8.03	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	9.08	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

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

PROJECT NAME: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716752 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	10.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.17	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/14/16		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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REPORT OF ANALYSES

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

PROJECT NAME: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716753 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	10.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	1.48	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	1.82	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716754 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	26.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.27	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.93	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716755 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	236.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	117.	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	142.	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716756 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	< 5.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.24	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.62	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

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

PROJECT NAME: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716757 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	< 5.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.48	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.95	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

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

PROJECT NAME: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716758 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	256.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	41.8	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/14/16		JDC	46.2	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716759 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	10.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.63	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.94	mg/L

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)

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

CES BATCH NO: 72032 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716749	6-28-16	1150	GW	Comp	MW-2SR	12	X										pH 7.53
750		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
751		1230			DGC-5	12	X										pH 6.96
752		1330			MW-6SR	12	X										pH 8.28
753		1245			MW-7S	12	X										pH 7.21
754		1300			MW-8S	12	X										pH 7.71
755		1415			MW-9S	12	X										pH 7.19
756		1105			MW-10SR	12	X										pH 7.53
			"	"	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C IR

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

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

CES BATCH NO: 12032 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716757		1130	GW	Grab	DGC-2D	12	X										pH 8.39
758		1400			DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
759		1000	GW	Grab	DGC-3D												pH 7.69

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs Signature:	10/28/16	1430	Name: Ryan Shuster Signature:
Name: Signature:	10/28/16	1515	Name: K Crump Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C
ICE

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 7 2032

	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.)

H_2SO_4 **WC** 10108 HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES Certified Environmental Services, Inc.

7280 Caswell Street
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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716760 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	5.2	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

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716761 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	< 1.0	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716762 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Total Organic Carbon	SM18-5310B	07/01/16		SA	6.4	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716763 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	< 1.0	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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716764 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	4.0	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel K 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716765 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	7.9	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716766 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	70.	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716767 SAMPLE ID- MW-10
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Total Organic Carbon	SM18-5310B	07/01/16		SA	1.5	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716768 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	1.6	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716769 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	70.	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
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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716770 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Total Organic Carbon	SM18-5310B	07/01/16		SA	1.6	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)

CES Certified Environmental Services, Inc.
7280 Caswell St. (Hancock Air Park)
North Syracuse, New York 13212
Phone 315-478-2374
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CES BATCH NO: 72033 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716760	6-28-16	1150	GW	Comp	MW-2SR	12	X										pH 7.53
761		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
762		1230			DGC-5	12	X										pH 6.96
763		1330			MW-6SR	12	X										pH 8.28
764		1245			MW-7S	12	X										pH 7.21
765		1300			MW-8S	12	X										pH 7.71
766		1415			MW-9S	12	X										pH 7.19
767		1105			MW-10SR	12	X										pH 7.53
			↓	↓	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C

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

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

CES BATCH NO: 42033 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716768		1130	GW	Grab	DGC-2D	12	X										pH 8.39
769		1400			DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
770		1000	GW	Grab	DGC-3D												pH 7.03

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print): _____

Signature: _____

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Wicks	6/28/16	1430	Name: Ryan Sheehan
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C ICE

CES

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Sample Receiving Checklist

Client Name: C+S

Batch Number: 72033

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence one vial broke @ lab

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716771 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.13	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	447.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.2	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.23	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	88.8	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.86	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	54.8	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.096	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	1.13	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716771

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	67.0	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver 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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716772 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.11	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	152.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	2.26	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.079	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	35.9	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	2.86	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	15.0	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.086	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	1.44	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716772

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	20.1	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716773 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	< 0.02	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	731.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	11.2	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.040	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.72	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	206.	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	31.8	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	52.7	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	1.74	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.024	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	13.1	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716773

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	16.9	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/08/16		AG	0.039	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		AG	< 0.02	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Note: Antimony, Beryllium, Cadmium, Selenium, Silver 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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716774 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.026	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	149.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.74	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.15	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	34.9	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.97	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	15.0	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.031	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	2.05	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716774

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	6.86	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver 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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716775 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.029	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	445.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.2	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.25	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	142.	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	3.23	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	22.0	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/13/16		AG	0.88	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	3.18	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716775

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	9.45	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716776 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.33	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	398.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.64	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.096	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.27	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	74.6	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	4.90	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	51.3	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.14	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	1.65	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716776

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	166.	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver 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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716777 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.74	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	603.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	9.14	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.11	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	1.28	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	129.	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	16.7	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	68.2	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.44	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.053	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	63.0	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716777

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	200.	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.043	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver 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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716778 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.14	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	317.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.59	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.14	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	48.6	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.88	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	47.5	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.043	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	2.49	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716778

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	27.0	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716779 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.050	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	151.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	2.49	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.20	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	36.9	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	3.15	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	14.3	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.050	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	3.54	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716779

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	11.8	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716780 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	1.12	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	834.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	2.04	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.072	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	2.47	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	157.	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	13.3	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	107.	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.20	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.052	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	31.1	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716780

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	255.	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		AG	< 0.04	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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

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North Syracuse, NY 13212
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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: Clay Landfill
DATE: 07/20/2016

SAMPLE NUMBER- 716781 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.091	mg/L
Hardness	EPA 200.7	06/29/16	AG	07/15/16		AG	119.	mg/L
Aluminum, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	1.03	mg/L
Antimony, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.24	mg/L
Beryllium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	25.8	mg/L
Chromium, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	1.44	mg/L
Lead, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	13.3	mg/L
Manganese, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	0.075	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	3.45	mg/L
Selenium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716781

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/29/16	AG	07/15/16		AG	15.2	mg/L
Thallium, Total	EPA 200.7	06/29/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/29/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/29/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

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

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

CES BATCH NO: 72034 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716771	6-28-16	1150	GW	Comp	MW-2SR	12	X										pH 7.53
772		1020	"	"	DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
773		1230			DGC-5	12	X										pH 6.96
774		1330			MW-6SR	12	X										pH 8.28
775		1245			MW-7S	12	X										pH 7.21
776		1300			MW-8S	12	X										pH 7.71
777		1415			MW-9S	12	X										pH 7.19
778		1105			MW-10SR	12	X										pH 7.53
			"	"	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C

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

CES Certified Environmental Services, Inc.

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

CES BATCH NO: 72034 | 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716779		1130	GW	Grab	DGC-2D	12	X										pH 8.39
780		1400	↓	↓	DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
781		1000	GW	Grab	DGC-3D												pH 7.63

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=________ I=________

Samples Collected By:
Name (Print): ________
Signature: ________
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zoks Signature:	6/28/16	1430	Name: [illegible] Signature: [signature]
Name: Signature:	6/28/16	1515	Name: K Crump Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C ICE

CES
Environmental Conservation Services, Inc.
7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72034

	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.)

H_2SO_4 **WC** HNO_3 **MP 210** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES Certified Environmental Services, Inc.

7280 Caswell Street
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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716782 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	446.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)
Rachel R. Bonczyk
Technical Director

CES 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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716783 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	166.	mg/L CaCO3

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.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716784 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	415.	mg/L CaCO3

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.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716785 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	166.	mg/L CaCO3

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.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716786 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	440.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716787 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	305.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716788 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	799.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716789 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	280.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES 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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716790 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	164.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716791 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	1060.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716792 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	176.	mg/L CaCO3

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)

CES Certified Environmental Services, Inc.

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

CES BATCH NO: 7-20345 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716782	6-28-16	1150	GW	Grab	MW-2SR	12	X										pH 7.53
783		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
784		1230			DGC-5	12	X										pH 6.96
785		1330			MW-6SR	12	X										pH 8.28
786		1245			MW-7S	12	X										pH 7.21
787		1300			MW-8S	12	X										pH 7.71
788		1415			MW-9S	12	X										pH 7.19
789		1105			MW-10SR	12	X										pH 7.53
			↓	↓	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=______ I=______

Samples Collected By:
Name (Print): ______
Signature: ______
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: / Signature:			Name: / Signature:
Name: / Signature:	6/28/16	1515	Name: K Crump / Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C

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

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

CES BATCH NO: 72035 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716290		1130	GW	Grab	DGC-2D	12	X										pH 8.39
791		1400	↓	↓	DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
			↓		DGC-2D MS/MSD	12	X										
			DI	↓	Trip Blank	2	X										
792		1000	GW	Grab	DGC-3D												pH 7.83

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=____ I=____

Samples Collected By:
Name (Print): ____
Signature: ____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zuks Signature:	6/28/16	1430	Name: [signature] Signature: [signature]
Name: Signature:	6/28/16	1515	Name: K Crump Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C ICE

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72035

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716793 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/05/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/06/16		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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716794 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Cyanide, Prep (SM18-20)	4500-CN C	07/05/16		JDC	Prep Complete	
Total Cyanide (SM18-21)	4500-CN E	07/06/16		JDC	< 0.01	mg/L

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716795 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/05/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/06/16		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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716796 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/05/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/06/16		JDC	< 0.01	mg/L

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716797 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/05/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/06/16		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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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716798 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716799 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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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North Syracuse, NY 13212-
Attn: Ms. Christen Craig

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716800 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep Complete	
Total Cyanide (SM18-21)	4500-CN E	07/08/16		JDC	< 0.01	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

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

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716801 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		JDC	< 0.01	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716802 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		JDC	< 0.01	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716803 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep Complete	
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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

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

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

CES BATCH NO: 72036 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716793	6-28-16	1150	GW	Comp	MW-2SR	12	X										pH 7.53
794		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
795		1230			DGC-5	12	X										pH 6.96
796		1330			MW-6SR	12	X										pH 8.28
797		1245			MW-7S	12	X										pH 7.21
798		1300			MW-8S	12	X										pH 7.71
799		1415			MW-9S	12	X										pH 7.19
800		1105			MW-10SR	12	X										pH 7.53
			"	"	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C

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

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

CES BATCH NO: 72036 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716801		1130	GW	Grab	DGC-2D	12	X										pH 8.59
802		1400			DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
					DGC-2D MS/MSD	12	X										
			DI		Trip Blank	2	X										
803		1000	GW	Grab	DGC-3D												pH 7.05

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zahs	6/28/16	1430	Name: Ryan Sheehan
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature:

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C ICE

CES Certified Environmental Services, Inc.
7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: C+S

Batch Number: 7 2036

	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.)

H_2SO_4 **WC** ____ HNO_3 **MP** ____ NaOH **WCSP** 4847 Ascorbic Acid **WC** 802

HCl **WCSP** ____ $Na_2S_2O_3$ **WC** ____ Other ____ Not Available ☐

Additional Comments/Client Correspondence: added NaOH to DGC-5, MW-9S, & DGC-6D to adjust pH to >12 6/28/16 @ 1126 kc

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716804 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

Certified Environmental Services, Inc.

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North Syracuse, NY 13212
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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716805 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716806 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716807 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716808 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716809 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 0.010	mg/L

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

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

PROJECT NAME: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716810 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716811 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 0.010	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel K 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716812 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716813 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716814 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

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

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

CES BATCH NO: 72037 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
116804	6-28-16	1150	GW	Grab	MW-2SR	12	X										pH 7.53
805		1020			DGC-3S	12	X										pH 7.50
					MW-4SR	12	X										
806		1230			DGC-5	12	X										pH 6.96
807		1330			MW-6SR	12	X										pH 8.28
808		1245			MW-7S	12	X										pH 7.21
809		1300			MW-8S	12	X										pH 7.71
810		1415			MW-9S	12	X										pH 7.19
811		1105			MW-10SR	12	X										pH 7.53
			↓	↓	MW-11SR	12	X										

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C

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

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

CES BATCH NO: 7 2037 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716812		1130	GW	Grab	DGC-2D	12	X										pH 8.59
813		1400	↓	↓	DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
			↓		DGC-2D MS/MSD	12	X										
			DI	↓	Trip Blank	2	X										
814		1000	GW	Grab	DGC-3D												pH 7.83

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print): _____

Signature: _____

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zuks	6/28/16	1430	Name: Ryan Sheehan
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No

Receipt Temperature: 8.4 °C ICE

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 7 2037

	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.)

H_2SO_4 WC 1068 HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716815 SAMPLE ID- MW-2SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1150
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	06/30/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	06/30/16		RRB		
Acetone	EPA 8260C	06/30/16		RRB	< 10	ug/L
Benzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	06/30/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	06/30/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716815

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	06/30/16		RRB	LQ< 5.0	ug/L
Vinyl Chloride	EPA 8260C	06/30/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	06/30/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	06/30/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	06/30/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	06/30/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

7280 Caswell Street
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716815

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	06/30/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	96 % REC
Toluene-d8 (75-125)	-	80 % REC
4-Bromofluorobenzene (75-125)	-	92 % REC

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716816 SAMPLE ID- DGC-3S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1020
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716816

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716816

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	91 % REC
Toluene-d8 (75-125)	-	82 % REC
4-Bromofluorobenzene (75-125)	-	94 % REC

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716817 SAMPLE ID- DGC-5
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1230
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	06/30/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	06/30/16		RRB		
Acetone	EPA 8260C	06/30/16		RRB	18	ug/L
Benzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	06/30/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	06/30/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716817

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	06/30/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	06/30/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	06/30/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	06/30/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	06/30/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	06/30/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	06/30/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	06/30/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	06/30/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716817

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	06/30/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	06/30/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)
Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	96 % REC
Toluene-d8 (75-125)	-	80 % REC
4-Bromofluorobenzene (75-125)	-	92 % REC

CES Certified Environmental Services, Inc.
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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716818 SAMPLE ID- MW-6SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716818

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716818

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	91 % REC
Toluene-d8 (75-125)	-	83 % REC
4-Bromofluorobenzene (75-125)	-	95 % REC

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716819 SAMPLE ID- MW-7S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1245
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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North Syracuse, NY 13212
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716819

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716819

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	90 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	94 % 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716820 SAMPLE ID- MW-8S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1300
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716820

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 716820

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	94 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	91 % REC

CES Certified Environmental Services, Inc.
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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716821 SAMPLE ID- MW-9S
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	15	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	54	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716821

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	3.2	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716821

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	90 % REC
Toluene-d8 (75-125)	-	82 % REC
4-Bromofluorobenzene (75-125)	-	90 % 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716822 SAMPLE ID- MW-10SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1105
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716822

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

7280 Caswell Street
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Phone 315-478-2374
Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 716822

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	92 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	93 % REC

Certified Environmental Services, Inc.
7280 Caswell Street
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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716823 SAMPLE ID- DGC-2D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

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

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716823

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716823

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	92 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	91 % REC

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716824 SAMPLE ID- DGC-6D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1400
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample	Rec.On Ice
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	2.5	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716824

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	1.4	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716824

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	97 % REC
Toluene-d8 (75-125)	-	83 % REC
4-Bromofluorobenzene (75-125)	-	92 % REC

CES Certified Environmental Services, Inc.
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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716825 SAMPLE ID- Trip Blank
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/01/16		RRB		
Acetone	EPA 8260C	07/01/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/01/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716825

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/01/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/01/16		RRB	LQ-< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/01/16		RRB	< 2.0	ug/L
Total Xylenes	EPA 8260C	07/01/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/01/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/01/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/01/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/01/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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Fax 315-478-2107

CONTINUATION OF DATA FOR SAMPLE NUMBER 716825

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/01/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/01/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	101 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	92 % REC

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716826 SAMPLE ID- DGC-3D
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/28/16 SAMPLER- CES Personnel
TIME RECEIVED- 1515 DELIVERED BY- Ryan Sheehan

SAMPLE MATRIX- WW
TIME SAMPLED- 1000
RECEIVED BY- KC
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/28/16		KC	8.4	Degrees C
Sample Receipt Temperature		06/28/16		KC	Sample Rec.On Ice	
Acrylonitrile	EPA 8260B	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716826

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ-< 2.0	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716826

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Bromochloromethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Dibromomethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/05/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	96 % REC
Toluene-d8 (75-125)	-	94 % REC
4-Bromofluorobenzene (75-125)	-	91 % REC

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

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

CES BATCH NO: 72038 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716815	6-28-16	1150	GW	Grab	MW-2SR	12	X										
816		1020			DGC-3S	12	X										pH 7.53
					MW-4SR	12	X										pH 7.50
817		1230			DGC-5	12	X										
818		1330			MW-6SR	12	X										pH 6.96
819		1245			MW-7S	12	X										pH 8.28
820		1300			MW-8S	12	X										pH 7.21
821		1415			MW-9S	12	X										pH 7.71
822		1105			MW-10SR	12	X										pH 7.19
~~823~~			↓	↓	MW-11SR	12	X										pH 7.53

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

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name:			Name:
Signature:			Signature:
Name:	6/28/16	1515	Name: KC Crump
Signature:			Signature: KC Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C IR

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

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

CES BATCH NO: F2038 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716824 23		1130	GW	Grab	DGC-2D	12	X										pH 8.39
825 24		1400	↓	↓	DGC-6D	12	X										pH 6.61
					SW-1	12	X										
					SW-2	12	X										
			↓		DGC-2D MS/MSD	12	X										
826 25			DI	↓	Trip Blank	2	X										
827 26		1000	GW	Grab	DGC-3D												pH 7.63

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Zoks	6/28/16	1430	Name: Ryan Sheedy
Signature:			Signature:
Name:	6/28/16	1515	Name: K Crump
Signature:			Signature: K Crump

Samples Received in Good Condition: ☑ Yes ☐ No
Receipt Temperature: 8.4 °C ICE

CES Certified Environmental Services, Inc
7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72038

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** 5001 $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES 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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716830 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	8.3	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	190.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1307	JDC	T 40	units
Hexavalent Chromium	EPA 7196A	06/29/16	1050	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	< 10.0	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	1050.	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES 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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716831 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	98%	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	100%	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1307	JDC	80%	units
Hexavalent Chromium	EPA 7196A	06/29/16	1050	AG	77%	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	98%	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	103%	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	1110.Dup	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
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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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716832 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	88%	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	104%	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1307	JDC	80%	units
Hexavalent Chromium	EPA 7196A	06/29/16	1050	AG	81%	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	100%	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	98%	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	1030.Dup	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716833 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	98.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1307	JDC	T 8	units
Hexavalent Chromium	EPA 7196A	06/29/16	1050	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	0.23	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	11.4	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	648.	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: Clay Landfill
DATE: 07/15/2016

SAMPLE NUMBER- 716834 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Biochemical Oxygen Dem-01,-11	SM 5210B	06/29/16	1544	KSH	< 4.0	mg/L
Chloride-97,-11	SM4500Cl-B	07/08/16		KSH	92.	mg/L
COLOR (A=Apparent T=True)	SM18 2120B	06/29/16	1307	JDC	T 60	units
Hexavalent Chromium	EPA 7196A	06/29/16	1050	AG	< 0.004	mg/L
Nitrate as N (SM)-00,-11	4500-NO3 E	06/29/16	1756	JDC	< 0.05	mg/L
Sulfate-97,-11	SM4500SO4E	07/14/16		RRB	< 10.0	mg/L
Total Dissolved Solids-97,-11	SM 2540C	06/29/16		BLD	320.	mg/L

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)

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

CES BATCH NO: 12042 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716830	6/28/16	1450	GW	Grab	MW-4SR	12	X										
831-832	6/28/16	1450			MW-4SR MS/MSD	12	X										
833	6/28/16	1540			MW-11SR	12	X										
834	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print):

Signature:

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shea
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No

Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72042

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716835 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
BROMIDE	SM15 p.44	06/30/16		SA	2.29	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

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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716836 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
BROMIDE	SM15 p.44	06/30/16		SA	94%	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

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716837 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
BROMIDE	SM15 p.44	06/30/16		SA	107%	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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716838 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
BROMIDE	SM15 p.44	06/30/16		SA	0.892	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716839 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
BROMIDE	SM15 p.44	06/30/16		SA	0.117	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)

CES Certified Environmental Services, Inc.

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

CES BATCH NO: 72043 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716835	6/28/16	1450	GW	Grab	MW-4SR	12	X										
836-837	6/28/16	1450			MW-4SR MS/MSD	12	X										
838	6/28/16	1540			MW-11SR	12	X										
839	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shedlock
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No

Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72043

	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.)

H_2SO_4 WC HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 Approved by: AG Date Put In Place: 10/9/14

Certified Environmental Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
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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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716840 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	164.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	114.	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	127.	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.

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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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716841 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	112%	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	97%	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716842 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	102%	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	100%	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	110%	mg/L

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

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

PROJECT NAME: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716843 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	51.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.15	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.83	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: Clay Landfill
DATE: 07/18/2016

SAMPLE NUMBER- 716844 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Chemical Oxygen Demand-97,-11	SM 5220C	07/15/16		RRB	36.	mg/L
Ammonia as N (SM)-97,-11	4500NH3D/E	07/13/16		MPB	0.18	mg/L
Total Kjeldahl Nit.(SM)-97,-11	4500NH3D/E	07/10/16		JDC	0.87	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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

CES BATCH NO: J2044 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
116840	6/28/16	1450	GW	Grab	MW-4SR	12	X										
841842	6/28/16	1450			MW-4SR MS/MSD	12	X										
843	6/28/16	1540			MW-11SR	12	X										
844	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print): _____

Signature: _____

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shedd
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No

Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72044

	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.)

H_2SO_4 WC 1068 HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716845 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Total Organic Carbon	SM18-5310B	07/01/16		SA	44.	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

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716846 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Total Organic Carbon	SM18-5310B	07/01/16		SA	102%	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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716847 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Total Organic Carbon	SM18-5310B	07/01/16		SA	102%	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

CES Certified Environmental Services, Inc.

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North Syracuse, NY 13212
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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716848 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Total Organic Carbon	SM18-5310B	07/01/16		SA	11.	mg/L

Note: Analysis performed by ELAP #11393.

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel K Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716849 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Total Organic Carbon	SM18-5310B	07/01/16		SA	15.	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)

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

CES BATCH NO: 72045 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716845	6/28/16	1450	GW	Grab	MW-4SR	12	X										
846-847	6/28/16	1450			MW-4SR MS/MSD	12	X										
848	6/28/16	1540			MW-11SR	12	X										
849	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shedlock
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No
Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72045

	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.)

H_2SO_4 WC HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other H3PO4 Not Available ☐

Additional Comments/Client Correspondence

DOCUMENT ID: SRCL 100914 Approved by: AG Date Put In Place: 10/9/14

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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716850 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/29/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.79	mg/L
Hardness	EPA 200.7	06/30/16	AG	07/15/16		AG	551.	mg/L
Aluminum, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	1.56	mg/L
Antimony, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.75	mg/L
Beryllium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	137.	mg/L
Chromium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	9.81	mg/L
Lead, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	51.0	mg/L
Manganese, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.80	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.035	mg/L
Potassium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	75.1	mg/L
Selenium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L

Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716850

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	162.	mg/L
Thallium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.027	mg/L
Vanadium, Total	EPA 200.7	06/30/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716851 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/29/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	116%	mg/L
Hardness	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Aluminum, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	238%	mg/L
Antimony, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	100%	mg/L
Arsenic, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	103%	mg/L
Barium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	99%	mg/L
Beryllium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	103%	mg/L
Cadmium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	89%	mg/L
Calcium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	84%	mg/L
Chromium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	110%	mg/L
Cobalt, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	97%	mg/L
Copper, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	108%	mg/L
Iron, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	DO	mg/L
Lead, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	98%	mg/L
Magnesium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Manganese, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	150%	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	98%	mg/L
Nickel, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	98%	mg/L
Potassium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Selenium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	102%	mg/L
Silver, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	97%	mg/L

CES Certified Environmental Services, Inc.

7280 Caswell Street
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Phone 315-478-2374
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716851

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Thallium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	92%	mg/L
Zinc, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	98%	mg/L
Vanadium, Total	EPA 200.7	06/30/16	AG	07/14/16		AG	112%	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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716852 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/29/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	112%	mg/L
Hardness	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Aluminum, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	282%	mg/L
Antimony, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	110%	mg/L
Arsenic, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	106%	mg/L
Barium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	86%	mg/L
Beryllium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	116%	mg/L
Cadmium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	101%	mg/L
Calcium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	76%	mg/L
Chromium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	110%	mg/L
Cobalt, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	97%	mg/L
Copper, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	108%	mg/L
Iron, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	DO	mg/L
Lead, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	97%	mg/L
Magnesium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Manganese, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	154%	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	96%	mg/L
Nickel, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	97%	mg/L
Potassium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Selenium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	111%	mg/L
Silver, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	105%	mg/L

CES Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716852

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	*NA	mg/L
Thallium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	103%	mg/L
Zinc, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	98%	mg/L
Vanadium, Total	EPA 200.7	06/30/16	AG	07/14/16		AG	110%	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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

Certified Environmental Services, Inc.

7280 Caswell Street
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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716853 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/29/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	0.29	mg/L
Hardness	EPA 200.7	06/30/16	AG	07/15/16		AG	397.	mg/L
Aluminum, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.58	mg/L
Antimony, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.036	mg/L
Barium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.28	mg/L
Beryllium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	84.8	mg/L
Chromium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	1.04	mg/L
Lead, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	45.0	mg/L
Manganese, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.22	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.025	mg/L
Potassium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	1.68	mg/L
Selenium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L

CES Certified Environmental Services, Inc.

7280 Caswell Street
North Syracuse, NY 13212
Phone 315-478-2374
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716853

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	80.7	mg/L
Thallium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/30/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716854 SAMPLE ID- SW-1
DATE SAMPLED- 06/29/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Boron, Total (Prep: SW3010A)	EPA 200.7			07/14/16		AG	< 0.02	mg/L
Hardness	EPA 200.7	06/30/16	AG	07/15/16		AG	161.	mg/L
Aluminum, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.2	mg/L
Antimony, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.006	mg/L
Arsenic, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Barium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	0.053	mg/L
Beryllium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.002	mg/L
Cadmium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.0025	mg/L
Calcium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	41.9	mg/L
Chromium, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Cobalt, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Copper, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Iron, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	1.22	mg/L
Lead, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Magnesium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	13.6	mg/L
Manganese, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	E 0.51	mg/L
Mercury, Total (Hg)	EPA 245.1			07/01/16		AG	< 0.0007	mg/L
Nickel, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Potassium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	1.72	mg/L
Selenium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.015	mg/L
Silver, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L

Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716854

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sodium, Total	EPA 200.7	06/30/16	AG	07/15/16		AG	51.3	mg/L
Thallium, Total	EPA 200.7	06/30/16	AG	07/11/16		SA	< 0.005	mg/L
Zinc, Total	EPA 200.7	06/30/16	AG	07/12/16		AG	< 0.02	mg/L
Vanadium, Total	EPA 200.7	06/30/16	AG	07/14/16		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, Beryllium, Cadmium, Selenium, Silver and Thallium analysis performed by ELAP #11393.

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

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

CES BATCH NO: 12046 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716850	6/28/16	1450	GW	Grab	MW-4SR	12	X										
851-852	6/28/16	1450			MW-4SR MS/MSD	12	X										
853	6/28/16	1540			MW-11SR	12	X										
854	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shealy
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No
Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72046

	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.)

H_2SO_4 WC HNO3 MP 210 NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

CES 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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716855 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	1030.	mg/L CaCO3

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.

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North Syracuse, NY 13212
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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716856 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	1050.Dup	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES 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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716857 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	1070.Dup	mg/L CaCO3

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.

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716858 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	435.	mg/L CaCO3

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

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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: Clay Landfill
DATE: 07/01/2016

SAMPLE NUMBER- 716859 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Alkalinity as CaCO3-97,-11	SM 2320B	07/01/16		KSH	172.	mg/L CaCO3

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)

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

CES BATCH NO: 72047 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716855		1450	GW	Grab	MW-4SR	12	X										
856-857		1450			MW-4SR MS/MSD	12	X										
858 ~~859~~ KC 6/29/16		1540			MW-11SR	12	X										
859		1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print): _____
Signature: _____
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shedd
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No
Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72047

	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.)

H_2SO_4 **WC** HNO_3 **MP** NaOH **WCSP** Ascorbic Acid **WC**

HCl **WCSP** $Na_2S_2O_3$ **WC** Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716860 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716861 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		JDC	84%	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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716862 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep Complete	
Total Cyanide (SM18-21)	4500-CN E	07/08/16		JDC	82%	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716863 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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

Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716864 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Cyanide, Prep (SM18-20)	4500-CN C	07/07/16		JDC	Prep	Complete
Total Cyanide (SM18-21)	4500-CN E	07/08/16		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

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

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

CES BATCH NO: 72048 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig
CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716860	6/28/16	1450	GW	Grab	MW-4SR	12	X										
861-862	6/28/16	1450			MW-4SR MS/MSD	12	X										
863	6/28/16	1540			MW-11SR	12	X										
864	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shea
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No

Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72048

	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.)

H_2SO_4 WC HNO3 MP NaOH WCSP 4847 Ascorbic Acid WC 802

HCl WCSP $Na_2S_2O_3$ WC Other Not Available ☐

Additional Comments/Client Correspondence Added NaOH to MW4SR, MW4SR ms/msd to adjust ph to >12 6/29/16 @ 1046 kc

DOCUMENT ID: SRCL 100914 Approved by: AG Date Put In Place: 10/9/14

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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716865 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

CES 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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716866 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	94%	mg/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

CES Certified Environmental Services, Inc.

7280 Caswell Street
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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716867 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	96%	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.

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North Syracuse, NY 13212
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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716868 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/13/2016

SAMPLE NUMBER- 716869 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
TOTAL PHENOLS	EPA 420.1	07/11/16		MPB	< 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

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

CES Certified Environmental Services, Inc.

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

CES BATCH NO: 72049 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716865	6/28/16	1450	GW	Grab	MW-4SR	12	X										
866-867	6/28/16	1450			MW-4SR MS/MSD	12	X										
868	6/28/16	1540			MW-11SR	12	X										
869	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3
G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:
Name (Print):
Signature:
Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shed
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No
Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72049

	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.)

H_2SO_4 WC 10687 HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP $Na_2S_2O_3$ WC Other _____ Not Available ☐

Additional Comments/Client Correspondence _____

DOCUMENT ID: SRCL 100914 **Approved by: AG** **Date Put In Place: 10/9/14**

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716870 SAMPLE ID- MW-4SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Acrylonitrile	EPA 8260B	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/05/16		RRB	S+ 6.3	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	37	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716870

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ-< 2.0	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB	5.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB	1.3	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716870

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/05/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	94 % REC
Toluene-d8 (75-125)	-	96 % REC
4-Bromofluorobenzene (75-125)	-	98 % 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716871 SAMPLE ID- MW-4SR MS
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Acrylonitrile	EPA 8260B	07/05/16		RRB	100%	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	96%	ug/L
Benzene	EPA 8260C	07/05/16		RRB	129%	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	113%	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	109%	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	103%	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	92%	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	114%	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	106%	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	158%	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	87%	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	107%	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB	LQ- 89%	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	116%	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	103%	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB	LQ- 67%	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	107%	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	112%	ug/L
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	106%	ug/L

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716871

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	111%	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	104%	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB	116%	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	112%	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	104%	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB	118%	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB	111%	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB	80%	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB	120%	ug/L
Styrene	EPA 8260C	07/05/16		RRB	123%	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB	112%	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB	104%	ug/L
Toluene	EPA 8260C	07/05/16		RRB	110%	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB	106%	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB	101%	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB	80%	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB	105%	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB	83%	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ- 94%	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB	124%	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB	106%	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB	109%	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB	119%	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB	113%	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB	101%	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB	104%	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB	107%	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB	96%	ug/L
Bromochloromethane	EPA 8260	07/05/16		RRB	104%	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716871

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	07/05/16		RRB	108%	ug/L
Idomethane	EPA 8260	07/05/16		RRB	110%	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	97 % REC
Toluene-d8 (75-125)	-	90 % REC
4-Bromofluorobenzene (75-125)	-	89 % REC

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716872 SAMPLE ID- MW-4SR MSD
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1450
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Acrylonitrile	EPA 8260B	07/05/16		RRB	95%	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	99%	ug/L
Benzene	EPA 8260C	07/05/16		RRB	125%	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	112%	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	109%	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	115%	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	83%	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	114%	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	107%	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	141%	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	103%	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	107%	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB LQ-	115%	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	116%	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	104%	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB LQ-	111%	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	115%	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	114%	ug/L
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	104%	ug/L

CES Certified Environmental Services, Inc.
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716872

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY		RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB		120%	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB		109%	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB		114%	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB		110%	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB		104%	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB		121%	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB		101%	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB		77%	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB		105%	ug/L
Styrene	EPA 8260C	07/05/16		RRB		121%	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB		108%	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB		107%	ug/L
Toluene	EPA 8260C	07/05/16		RRB		111%	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB		107%	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB		98%	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB		84%	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB		108%	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB		78%	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ-	124%	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB		126%	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB		107%	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB		129%	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB		97%	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB			
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB		115%	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB		96%	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB		98%	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB			
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB		108%	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB		91%	ug/L
Bromochloromethane	EPA 8260	07/05/16		RRB		99%	ug/L

CES Certified Environmental Services, Inc.

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CONTINUATION OF DATA FOR SAMPLE NUMBER 716872

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	07/05/16		RRB	105%	ug/L
Idomethane	EPA 8260	07/05/16		RRB	117%	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	97 % REC
Toluene-d8 (75-125)	-	92 % REC
4-Bromofluorobenzene (75-125)	-	89 % REC

CES Certified Environmental Services, Inc.

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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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716873 SAMPLE ID- MW-11SR
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1540
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Acrylonitrile	EPA 8260B	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.
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CONTINUATION OF DATA FOR SAMPLE NUMBER 716873

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ-< 2.0	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716873

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/05/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	95 % REC
Toluene-d8 (75-125)	83 % REC
4-Bromofluorobenzene (75-125)	95 % REC

CES 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: Clay Landfill
DATE: 07/22/2016

SAMPLE NUMBER- 716874 SAMPLE ID- SW-1
DATE SAMPLED- 06/28/16
DATE RECEIVED- 06/29/16 SAMPLER- CES Personnel
TIME RECEIVED- 0730 DELIVERED BY- Jason Ruhs

SAMPLE MATRIX- WW
TIME SAMPLED- 1615
RECEIVED BY- RS
TYPE SAMPLE- Grab

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Sample Receipt Temperature		06/29/16		RS	3.2	Degrees C
Acrylonitrile	EPA 8260B	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan 5030B/8260B	EPA 8260C	07/05/16		RRB		
Acetone	EPA 8260C	07/05/16		RRB	< 10	ug/L
Benzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromodichloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromoform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Bromomethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
2-Butanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Carbon Disulfide	EPA 8260C	07/05/16		RRB	< 2.0	ug/L
Carbon Tetrachloride	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloroethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Chloroform	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Chloromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
2-Chloroethylvinylether	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Dibromochloromethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Dichlorodifluoromethane	EPA 8260C	07/05/16		RRB	LQ-< 3.0	ug/L
1,1-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L

CES Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716874

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
cis-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,2-Dichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichloropropane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
cis-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
trans-1,3-Dichloropropene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Ethylbenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
2-Hexanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Methylene Chloride	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
4-Methyl-2-Pentanone	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Styrene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Tetrachloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Toluene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,1-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,1,2-Trichloroethane	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Trichlorofluoromethane	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
Trichloroethene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
Vinyl Acetate	EPA 8260C	07/05/16		RRB	< 5.0	ug/L
Vinyl Chloride	EPA 8260C	07/05/16		RRB	LQ-< 2.0	ug/L
Total Xylenes	EPA 8260C	07/05/16		RRB	< 3.0	ug/L
1,3-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,4-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
1,2-Dichlorobenzene	EPA 8260C	07/05/16		RRB	< 1.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,2-Dibromo-3-Chloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2-Dibromoethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Trans-1,4-Dichloro-2-butene	EPA 8260	07/05/16		RRB	< 5.0	ug/L
EPA 8260 Scan	EPA 8260	07/05/16		RRB		
1,1,1,2-Tetrachloroethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
1,2,3-Trichloropropane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Bromochloromethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L

Certified Environmental Services, Inc.

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

CONTINUATION OF DATA FOR SAMPLE NUMBER 716874

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Dibromomethane	EPA 8260	07/05/16		RRB	< 1.0	ug/L
Idomethane	EPA 8260	07/05/16		RRB	< 2.0	ug/L

NYSDOH LAB ID NO. 11246 APPROVED BY: Rachel K Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

Surrogate Recovery:

1,2-Dichloroethane-d4 (70-130)	-	94 % REC
Toluene-d8 (75-125)	-	81 % REC
4-Bromofluorobenzene (75-125)	-	89 % REC

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

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

CES BATCH NO: 72050 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, Inc.
ADDRESS: 499 Col. E. Collins Blvd.
North Syracuse, NY 13212
CONTACT NAME: Ms. Christen Craig

CLIENT PHONE: 455-2000
Project Name: Clay Landfill

CES LOG NUMBERS (INTERNAL USE/DO NOT WRITE)	Collected Date	Collected Time	Matrix	Grab or Comp.	CLIENT ID/SAMPLE LOCATION	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
716870	6/28/16	1450	GW	Grab	MW-4SR	12	X										
871-872	6/28/16	1450			MW-4SR MS/MSD	12	X										
873	6/28/16	1540			MW-11SR	12	X										
874	6/28/16	1615			SW-1	12	X										

	Parameter and Method:	Sample bottle: Type	Sample bottle: Size	Preservative Code:
1	6 NYCCRR Part 360 Baseline(See Attached)			
2				
3				
4				
5				
6				
7				
8				
9				
10				

Preservative Codes: A= Unpreserved B=H_2SO_4 C=HCl D=NaOH E=Ascorbic Acid F=HNO_3 G=$Na_2S_2O_3$ H=_____ I=_____

Samples Collected By:

Name (Print): _____

Signature: _____

Company: CES, Inc.

RELINQUISHED BY:	Date	Time	RECEIVED BY:
Name: Jason Ruhs	6-29-16	0730	Name: Ryan Shed
Signature:			Signature:
Name:			Name:
Signature:			Signature:

Samples Received in Good Condition: ☐ Yes ☐ No

Receipt Temperature: 3.2 °C

CES

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

Sample Receiving Checklist

Client Name: C+S

Batch Number: 72050

	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.)

H_2SO_4 WC HNO_3 MP NaOH WCSP Ascorbic Acid WC

HCl WCSP 5001 $Na_2S_2O_3$ WC Other _____ 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 23, 2016

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2016 First Quarter Landfill Inspection

File: 195.767.016

Dear Mr. Ulatowski:

In accordance with our 2016 Post-Closure Environmental Monitoring Program Agreement, the 2016 First Quarter landfill inspection and combustible gas vent monitoring was completed on March 25, 2016. 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 – March 25, 2016 Post-Closure Field Inspection Report and photographs taken during the inspection are attached.

A combustible gas survey was also completed at the site on March 25, 2016. 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.

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 2016 Second Quarter landfill inspection and combustible gas vent monitoring event is tentatively scheduled for June 2016.

Very truly yours,

C&S ENGINEERS, INC.

Christen M. Craig

Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC

Town of Clay Landfill – March 25th, 2016 - Post-Closure Field Inspection Report
Inspector: Wayne Randall

- The landfill cap system appears to be in good condition with the exception of a large number 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. A few of the culverts were recently cleaned out and cleared of debris.

- There were a few tree limbs on the fence in the northwest section of the landfill that should be removed.

3/25/2016					
CLAY LANDFILL GAS VENT MONITORING					
VENT	**%LEL**	**CO (ppm)**	**H_2S (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	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	>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 – March 2016

Town of Clay Landfill
Post-Closure Monitoring – March 2016

Town of Clay Landfill
Post-Closure Monitoring – March 2016

Town of Clay Landfill
Post-Closure Monitoring – March 2016

Town of Clay Landfill
Post-Closure Monitoring – March 2016

Town of Clay Landfill
Post-Closure Monitoring – March 2016

C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
p: (315) 455-2000
f: (315) 455-9667
www.cscos.com

November 2, 2016

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2016 Second Quarter Landfill Inspection

File: 195.767.016

Dear Mr. Ulatowski:

In accordance with our 2016 Post-Closure Environmental Monitoring Program Agreement, the 2016 Second Quarter landfill inspection and combustible gas vent monitoring was completed on June 28, 2016. 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 28, 2016 Post-Closure Field Inspection Report and photographs taken during the inspection are attached.

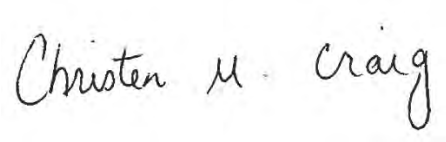
A combustible gas survey was also completed at the site on June 28, 2016. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. The combustible gases released from each gas vent were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization 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.

As recommended on the attached Post-Closure Field Inspection Report, tree limbs should be removed 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.

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 28, 2016 - 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. A few of the culverts were recently cleaned out and cleared of debris.

- There were a few tree limbs on the fence in the northwest section of the landfill that should be removed.

6/28/2016					
CLAY LANDFILL GAS VENT MONITORING					
VENT	**%LEL**	**CO (ppm)**	**H_2S (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	0.0	0.0	0.0	0.0	
GV-5	0.0	0.0	0.0	1.0	
GV-6	0.0	0.0	0.0	1.0	
GV-7	>100	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	>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	41.22			

Town of Clay Landfill
Post-Closure Monitoring – June 2016

Town of Clay Landfill
Post-Closure Monitoring – June 2016

Town of Clay Landfill
Post-Closure Monitoring – June 2016

Town of Clay Landfill
Post-Closure Monitoring – June 2016

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Town of Clay Landfill
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Town of Clay Landfill
Post-Closure Monitoring – June 2016

C&S Companies
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www.cscos.com

November 10, 2016

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2016 Third Quarter Landfill Inspection

File: 195.767.016

Dear Mr. Ulatowski:

In accordance with our 2016 Post-Closure Environmental Monitoring Program Agreement, the 2016 Third Quarter landfill inspection and combustible gas vent monitoring was completed on September 29, 2016. 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 29, 2016 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 29, 2016. 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.

As recommended on the attached Post-Closure Field Inspection Report, tree limbs should be removed 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 2016 fourth quarter landfill inspection and combustible gas vent monitoring is tentatively scheduled for December 2016.

Very truly yours,

C&S ENGINEERS, INC.

Christen M. Craig

Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC

Town of Clay Landfill – September 29, 2016 - 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. A few of the culverts were recently cleaned out and cleared of debris.

- Surrounding perimeter fence should be kept free of debris such as limbs and tall brush.

9/29/2016					
CLAY LANDFILL GAS VENT MONITORING					
VENT	**%LEL**	**CO (ppm)**	**H_2S (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	0.0	0.0	0.0	0.0	
GV-5	>100	0.0	0.0	1.0	
GV-6	0.0	0.0	0.0	1.0	
GV-7	>100	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	>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	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	41.22			

Town of Clay Landfill
Post-Closure Monitoring – September 2016

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C&S Companies
499 Col. Eileen Collins Blvd.
Syracuse, NY 13212
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November 10, 2016

Mr. Damian Ulatowski
Town Supervisor
Town of Clay
4401 Route 31
Clay, NY 13041-8707

Re: Town of Clay Landfill: 2016 Third Quarter Landfill Inspection

File: 195.767.016

Dear Mr. Ulatowski:

In accordance with our 2016 Post-Closure Environmental Monitoring Program Agreement, the 2016 Third Quarter landfill inspection and combustible gas vent monitoring was completed on September 29, 2016. 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 29, 2016 Post-Closure Field Inspection Report and photographs taken during the inspection are attached.

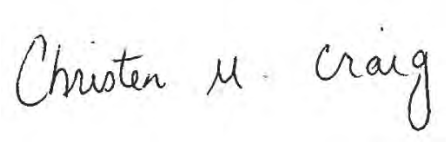
A combustible gas survey was also completed at the site on September 29, 2016. A total of 22 gas vents are incorporated into the gas venting trench system across the landfill. The combustible gases released from each gas vent were field screened utilizing a multi-gas monitor and a MiniRAE Photo Ionization 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.

As recommended on the attached Post-Closure Field Inspection Report, tree limbs should be removed 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 2016 fourth quarter landfill inspection and combustible gas vent monitoring is tentatively scheduled for December 2016.

Very truly yours,

C&S ENGINEERS, INC.



Christen M. Craig
Senior Project Environmental Scientist

cc: Ms. Stephanie M. Fitzgerald, NYSDEC

Town of Clay Landfill – November 30, 2016 - 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. A few of the culverts were recently cleaned out and cleared of debris.

- Surrounding perimeter fence should be kept free of debris such as limbs and tall brush.

11/30/2016					
CLAY LANDFILL GAS VENT MONITORING					
VENT	**%LEL**	**CO (ppm)**	**H_2S (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	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	>100	0.0	0.0	0.0	
GV-12	>100	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	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	41.59			

Town of Clay Landfill
Post-Closure Monitoring – December 2016

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