
CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Second Quarter 2015



Department of Natural Resources and Parks
Solid Waste Division

**KING COUNTY SOLID WASTE
CEDAR HILLS REGIONAL LANDFILL
QUARTERLY ENVIRONMENTAL MONITORING REPORT**

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Cedar Hills Regional Landfill Summary of Quarterly Environmental Monitoring Second Quarter of 2015

This summary contains a discussion of quarterly environmental monitoring results for groundwater and surface water quality and landfill gas migration monitoring for Cedar Hills Regional Landfill.

Environmental samples were collected and analyzed in accordance with the Quality Assurance Project Plan for Environmental Monitoring at King County Solid Waste Facilities (QAPP). This document contains procedures to ensure data quality, consistency and documentation.

The planned construction of a new disposal area at Cedar Hills, Area 8, has necessitated the abandonment of five monitoring wells located within the new area. On April 1, 2015, regional aquifer wells MW-70, MW-77, MW-78 and perched zone wells MW-96 and MW-97 were decommissioned per Chapter 173-160-381 WAC by a licensed well contractor.

1.0 Quarterly Results and Analysis

This Section discusses the monitoring results and how they compare to previously collected data at the site.

1.1 Groundwater

Groundwater monitoring well details and locations are presented in Table 1 and Figure 1. Monitoring activities for the third quarter are listed in Table 2.

1.11 Regional Aquifer

Regional aquifer analysis results for this quarter are consistent with past results.

For discussion and graphical presentation, monitoring wells are grouped together according to the flow path analysis for the regional aquifer.

Groundwater elevations and potentiometric surfaces are within historical ranges and reflect seasonal responses to precipitation. Potentiometric Surface Map and Groundwater Flow Analysis can be found in Appendix A. Elevations measured this quarter conform to the current hydrogeologic model.

Exceedances of regulatory standards are tabulated and presented in Table 3. Groundwater samples were analyzed for both dissolved and total metal fractions per WAC 173-351-430(2)(b)(ii) as revised. Results for metals listed in WAC 173-351-990 Appendix I were compared to water quality standards. This has resulted in more exceedances for arsenic but does not indicate a change in water quality as the dissolved concentrations remained similar. These results reflect the change in analytical procedure.

Primary Ground Water Quality Criteria were exceeded for total arsenic in upgradient and crossgradient wells MW-93 and MW-21, MW-99, which generally has arsenic levels exceeding the primary standard was not sampled for metals this quarter. Wells

interior, vertical to facilities MW-64, MW-67, MW-68 and MW-100; and downgradient wells MW-69, MW-80, MW-86, MW-89 and MW-91 also exceeded the standard for arsenic. Trichloroethene exceeded the groundwater criterion in upgradient wells MW-76 and MW-82; and vinyl chloride exceeded criteria in MW-65. Secondary standards (dissolved iron and dissolved manganese) were exceeded in numerous regional wells. These results are consistent with past analyses.

The change to a comparison of Appendix I metals to standards using the total fraction leads to concentration increases as a result of dissolving particulates in the sample rather than filtering them out. This was an expected result of the methodology change.

Trilinear Diagrams (Figures 2 through 6) indicate water quality type (hydrochemical facie) based on dissolved ion distribution. The diagrams are useful to recognize spatial variability, potential analytical error or change in hydrochemical facie over time. All regional samples are within the calcium-magnesium-bicarbonate hydrochemical facie. Data are consistent with previous quarters. Ion balance calculations (Table 4) indicate no analytical error in regional aquifer samples as all samples are within 10% on the ion balance.

Intra-well prediction limits are calculated annually using data collected through the end of the previous calendar year (2014). Comparison to calculated prediction limits provides an indication of whether a change in concentration represents normal variability or a change in water quality. This quarter, nitrate in upgradient wells MW-56, MW-76 and MW-94 and exceeded prediction limits (Table 5). Adequate background data sets for total metals have now been collected and used to establish initial prediction limit values for Appendix I metals. These calculations indicate limit exceedances for arsenic and barium in down gradient well MW-80. These results will be evaluated per the protocol described in the *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill*.

Volatile Organic Compound (VOC) detections are presented in Table 6. Present are regularly occurring detections of chlorinated VOCs and their breakdown products from the upgradient Queen City Farms (QCF) Site, which include trichloroethene (TCE) in monitoring wells MW-76, MW-82, MW-83, and MW-94; *cis*-1,2-dichloroethene was detected in MW-56, MW-59 and MW-76; tetrachloroethene (PCE) in MW-76 and vinyl chloride (VC) in MW-65. These upgradient well detections are consistent with past data and continuing migration from QCF.

Methylene chloride and chloromethane were detected in Field and Trip Blanks as well as in samples from wells MW-99, MW-75 and MW-87-, all attributable to blank contamination. Quality Assurance /Quality Control (QA/QC) samples (field blanks, trip blanks, and method blanks) detections appear in Table 13.

1.12 Perched Zones

Analysis results for the perched zones this quarter are consistent with past results.

Groundwater elevations measured during the quarter are within historical ranges. Samples were collected from nine perched wells, four in the north and west areas of the landfill (MW-27A, MW-28, MW-29, and MW-55), four in the east perched zone (MW-30A, MW-47, MW-62 and MW-EB6); and MW-101 in the South Solid Waste Area. Groundwater quality data for the regularly sampled Perched Zone samples collected during the second quarter of 2015 are consistent with previous samples.

Exceedances of regulatory standards are tabulated and presented in Table 7. All are consistent with past analyses and known impacts.

Trilinear plots for perched zones samples are all within the calcium-magnesium-bicarbonate hydrochemical facie, as in past samples (Table 8 and Figures 7-9). Cation/Anion balances indicate potential analytical error (greater than 10% ion imbalance) only in perched well MW-62.

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2014 and any exceedances of these limits by current results are tabulated (Table 9). There were no prediction limits exceedances in the perched zone.

Volatile Organic Compound detections in the perched zones are presented in Table 10. All are consistent with previous analyses.

1.2 Surface Water

Surface water sampling is attempted monthly at stations located along the drainage courses around the landfill. Samples were collected at 13 surface water stations having adequate flow during the quarter. Monitoring activities are listed in Table 11.

Cedar Hills Regional Landfill is covered by an Industrial Stormwater General Permit issued by the Washington State Department of Ecology. The permit defines discharge Benchmarks, applicable to all facilities and Effluent Limits, applicable specifically to landfills. These values are reproduced in Table 15. Stations SW-N4, SW-SL3 and SW-GS1 are the designated points for comparison to permit benchmarks and effluent limits. At least one sample was obtained from each designated compliance station monthly this quarter. There were no benchmark or effluent limit exceedances ((Table 12).

1.3 Landfill Gas

A network of compliance probes are monitored for landfill gas migration around the perimeter of the landfill. Probes are monitored by the landfill gas crew monthly to monitor system performance and quarterly for compliance. No compliance probes exceeded the 5% criteria this quarter.

Detections above the regulatory limit in landfill gas probe GP-33C in September of 2011 prompted actions including: monitoring frequency increases, operational adjustments to increase LFG recovery rates, off-site structure monitoring and preparation of a response plan.

Operational review resulted in modifications to enhance extraction from unlined areas and under liner spaces that could potentially act as gas conveyance pathways.

The plan resulted in installation of 13 borings targeting the potential zone of LFG migration in the native sediments. Eight borings serve as LFG extraction wells and five as monitoring probes. The extraction wells and probes are currently monitored bimonthly. Methane was not detected in any migration monitoring probe during the second quarter.

Data indicate the system has been effective in controlling LFG migration to the perimeter probes with no methane detections this quarter.

Compliance Probe, On-site Buildings and supplemental Monitoring Probe results are presented in Appendix B.

2.0 Analytical Methods

Groundwater quality is evaluated by comparison of analysis results to regulatory standards, geochemical analysis and statistical evaluation. Water quality analytical results for surface water runoff discharged from the landfill site are compared to the limits set in the Industrial Stormwater General Permit. Following is a brief description of each.

2.1 Regulatory Standards

Groundwater monitoring results are compared to Washington State Groundwater Quality Criteria, WAC 173-200 (Table 14). Surface water monitoring results are compared to the *Industrial Stormwater General Permit* Benchmark Criteria or WAC 173-201A Water Quality Standards for Surface Waters of the State of Washington.

2.2 Trilinear Diagrams and Major Ion Balance

Geochemical data are presented on trilinear diagrams. Major cations and anions are plotted on individual triangles as percentages of total milliequivalents per liter (meq/L). These diagrams illustrate differences in major ion chemistry between groundwater samples and can be used to categorize water composition into identifiable groups or hydrochemical facies. These hydrochemical facies reflect distinct compositions of cation and anion concentrations. The value of the diagram lies in pointing out relationships that exist among individual samples. Trilinear Diagrams are included with ionic balance calculations in this report. Ion balance calculations are useful for determining analytical correctness and can be of value in detecting laboratory error or variation in field sampling procedures.

2.3 Prediction Limits

The Prediction Limit is an intra-well statistical test that compares an analytical result to a computed limit value. The limit value is derived from past analytical results from the same well, considered representative historical well data. A value outside of this limiting value is considered evidence that the result is not drawn from the same sample population distribution. The prediction limits generated in this report are based on a 1% false positive rate (type I error) and depend on the background distribution. For each parameter tested, an appropriate background data set is chosen. This background set is updated annually to include recent data that more accurately defines background water quality. The data set is tested for normality by application of the Shapiro-Wilk Test for Normality. If the data fail the test for normality, log transformed data are tested. When normal or transformed normal data sets are determined, a parametric prediction limit is calculated and future results compared to this value. When transformations fail the test for normality, a non-parametric method is applied and future results are compared to this limit.

This test is performed on parameters listed in WAC 173-351-990 Appendix I and is used to detect a change in the population distribution of the individual well. Exceedances detected in Appendix I parameters for the quarter are presented in Table 5 (Regional Aquifer Wells) and Table 9 (Perched Zones Wells).

2.4 Laboratory Data Quality

Laboratory analytical data is reviewed to verify meeting data quality objectives (DQOs) as defined in the Quality Assurance Project Plan for Environmental Monitoring at King County Solid Waste Facilities (QAPP). Occasionally, results identified during this process are deemed to be unsuitable for evaluation purposes. A summary of suspect results can be found in Table 16.

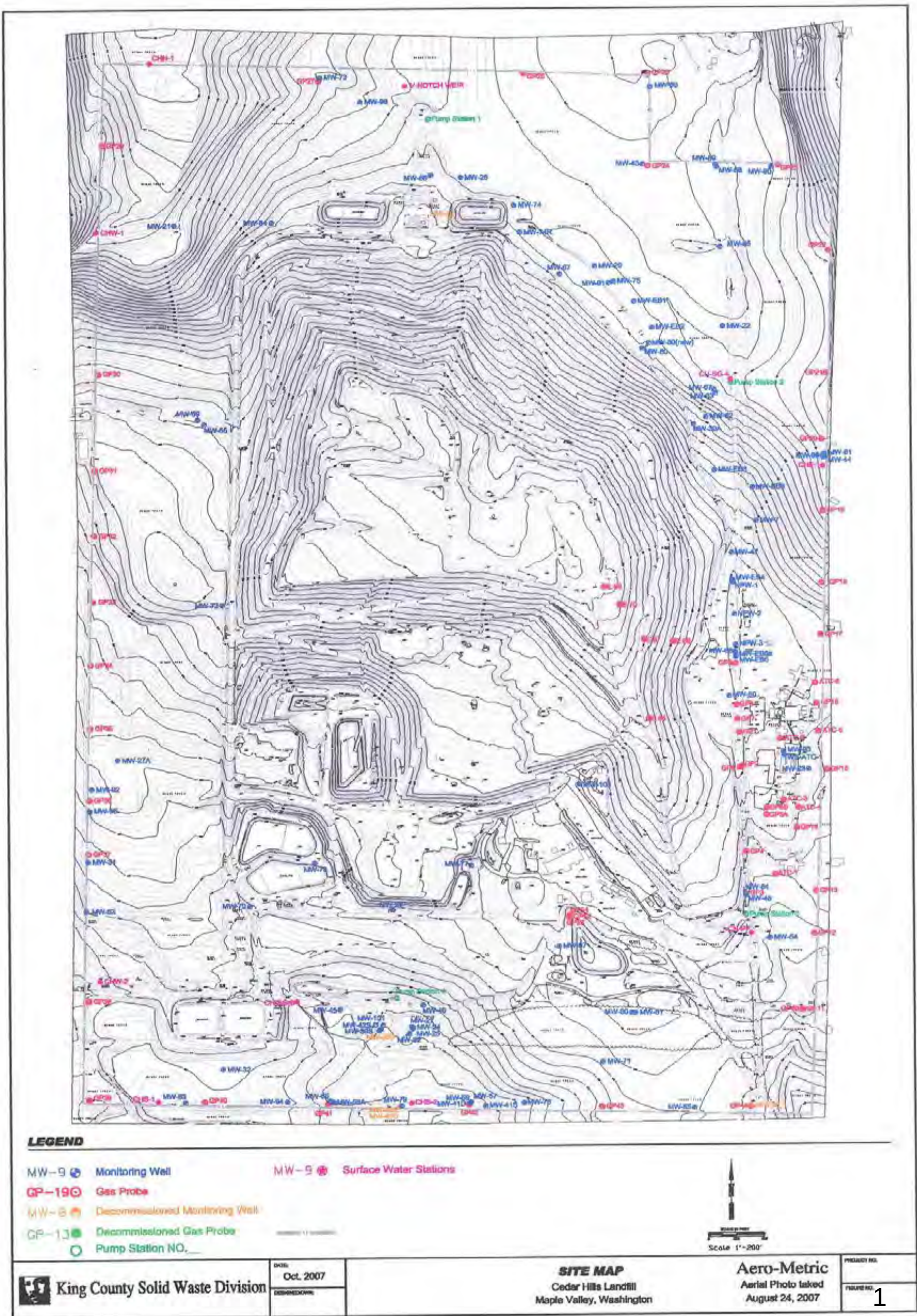


TABLE 2-1
SUMMARY OF CEDAR HILLS REGIONAL LANDFILL GROUNDWATER WELLS

Well Number	Date Constructed	Decommissioned	Aquifer	Zone ¹	Purpose ²	Ground	Top of	Total Well	Screened Interval		Screened Interval		Coordinates	
						Surface Elevation	Well Casing Elevation	Depth	Depth	Depth	Elevation	Elevation	Northing	Easting
MW-24	6/1/1983	--	Regional	US	WL/WQ	473.8	475.99	193.0	187	192	286.8	281.8	167767.76	1702441.65
MW-54	9/26/1986	--	Regional	US	WL	579.3	580.43	360.0	329	351	250.3	228.3	168435.53	1702154.28
MW-56	10/12/1988	--	Regional	US	WL/WQ	479.2	480.33	170.5	156	166	323.2	313.2	167214.82	1698980.77
MW-57	8/22/1988	--	Regional	US	WL/WQ	455.7	456.64	145.5	129	144	326.7	311.7	167201.99	1699993.32
MW-58A	9/26/1988	--	Regional	US	WL/WQ	478.6	479.27	220.5	208.5	218.5	270.1	260.1	167207.16	1699006.59
MW-59	8/16/1988	--	Regional	US	WL/WQ	455.6	457.13	185.5	170.5	180.5	285.1	275.1	167193.44	1699983.91
MW-60	9/13/1991	--	Regional	US	WL/WQ	564.8	567.15	266.4	230	239	334.8	325.8	167873.2	1701154.47
MW-65	3/29/1993	--	Regional	US	WL/WQ	543.2	545.83	236.9	225.5	234.3	317.7	308.9	167146.55	1701602.10
MW-76	10/25/1999	--	Regional	US	WL/WQ	489.8	491.71	155.9	138.7	148.2	351.1	341.6	167193.13	1700376.23
MW-82	11/2/2000	--	Regional	US	WL/WQ	472.8	474.85	139.5	123.9	133.4	348.9	339.4	167725.31	1699553.72
MW-83	10/27/2000	--	Regional	US	WL/WQ	494.5	496.81	160.0	144.3	153.8	350.2	340.7	167212.27	1697939.89
MW-94	7/2/2002	--	Regional	US	WL/WQ	493.2	495.51	168.0	136	144.7	357.2	348.5	167210.22	1698674.21
MW-21	5/17/1983	--	Regional	UNW	WL/WQ	418.2	420.66	180.0	155	163	263.2	255.2	173876.38	1697901.86
MW-73	7/3/1999	--	Regional	UNW	WL/WQ	484.3	485.70	218.0	196.2	205.5	288.1	278.8	174995.59	1698954.95
MW-84	10/20/2000	--	Regional	UNW	WL/WQ	528.7	530.80	250.5	236.2	245.7	292.5	283.0	173894.54	1698602.89
MW-81	10/3/2002	--	Regional	UNE	WL/WQ	492.2	493.66	199.0	183	192	309.2	300.2	172113.99	1702568.87
MW-99	8/30/2002	--	Regional	UNE	WL/WQ	491.8	493.64	287.0	270	279	221.8	212.8	172098.73	1702556.06
MW-93	6/24/2002	--	Regional	CG	WL/WQ	630.2	632.15	350.0	310.3	320.1	319.9	310.1	169851.24	1702259.35
MW-95	7/22/2002	--	Regional	CG	WL/WQ	568.6	571.54	311.0	254	262.7	314.6	305.9	169426.92	1697265.32
MW-106	2/19/2009	--	Regional	CG	WL	473.0	475.47	270.0	193	203	280.0	270.0	173461.69	1702536.99
MW-70	5/11/1993	4/1/2015	Regional	I	AB	527.9	530.57	221.5	205.1	218.8	322.8	309.1	168699.89	1698412.97
MW-77	10/12/1999	4/1/2015	Regional	I	AB	550.5	552.67	251.5	230	239.5	320.5	311.0	168999.71	1700007.63
MW-78	10/8/1999	4/1/2015	Regional	I	AB	535.3	537.35	229.5	213	225.5	322.3	309.8	169027.58	1698881.94
MW-100	8/26/2002	--	Regional	I	WL/WQ	618.4	620.32	124.7	299.3	309.3	319.1	309.1	169610.46	1700791.72
MW-22	5/25/1983	--	Regional	V	WL	515.0	517.09	284.0	279	283.8	236.0	231.2	173088.17	1701844.34
MW-64	3/22/1993	--	Regional	V	WL/WQ	594.3	596.55	276.3	260.3	274.1	334.0	320.2	168772.19	1701980.27
MW-66	4/5/1993	--	Regional	V	WL/WQ	528.6	531.28	250.7	234.2	248	294.4	280.6	174250.32	1699750.19
MW-67	4/28/1993	--	Regional	V	WL/WQ	514.1	516.43	232.4	216.3	230.1	297.8	284.0	172610.65	1701776.69
MW-68	4/15/1993	--	Regional	V	WL/WQ	644.8	647.07	354.6	333.5	352.5	311.3	292.3	170609.35	1701917.32
MW-69	4/23/1993	--	Regional	DW	WL/WQ	651.0	653.69	368.8	357.4	371	293.6	280.0	172400.20	1698061.86
MW-72	8/7/1998	--	Regional	DW	WL/WQ	669.8	671.87	389.0	366.2	375.8	303.6	294.0	170987.71	1698229.92
MW-74	11/1/2000	--	Regional	DG	WL/WQ	529.2	531.26	270.0	239.3	248.8	289.9	280.4	173813.79	1700386.85
MW-75	9/24/1999	--	Regional	DG	WL/WQ	529.8	532.40	287.0	258.7	268.8	271.1	261.0	173432.42	1701059.70
MW-80	2/27/2001	--	Regional	DG	WL/WQ	528.5	530.41	270.0	249.3	258.8	279.2	269.7	172964.99	1701309.78
MW-85	12/1/2000	--	Regional	DG	WL/WQ	529.8	531.76	270.0	247.2	256.7	282.6	273.1	173694.52	1701828.95
MW-87	11/21/2000	--	Regional	DG	WL/WQ	535.2	537.31	272.5	251.5	260.8	283.7	274.4	173493.76	1700670.27
MW-91	10/26/2001	--	Regional	DG	WL/WQ	529.7	532.02	331.0	268.9	289	260.8	240.7	173423.94	1701023.09
MW-86	12/12/2000	--	Regional	DNF	WL/WQ	533.9	536.04	282.0	250.5	259.3	283.4	274.6	174917.90	1701331.25
MW-88	9/13/2001	--	Regional	DNF	WL/WQ	511.2	513.68	248.5	229.7	239	281.5	272.2	174303.06	1701807.87
MW-89	11/12/2001	--	Regional	DNF	WL/WQ	510.7	512.82	328.0	281.5	290.8	229.2	219.9	174319.44	1701799.57
MW-90	8/14/2002	--	Regional	DNF	WL/WQ	500.2	502.22	300.0	265	274	235.2	226.2	174300.67	1702203.13
MW-43	4/30/1985	--	Regional	DNF	WL/WQ	544.6	547.06	325.0	299	309	245.6	235.6	174327.14	1701274.23
WS-ATC-1	2/7/1972	--	Regional	--	AB	624.9	625.51	535.0	325	340	299.9	284.9	169823.34	1702268.95
WS-NPW-1	8/22/1990	--	Regional	--	WL	644.6	646.33	382.0	365.7	375.7	278.9	268.9	171138.99	1701906.96
WS-NPW-3	6/5/1990	--	Regional	--	WL	644.3	645.81	376.0	359.4	367.4	284.9	276.9	170663.28	1701922.88

TABLE 2-1
SUMMARY OF CEDAR HILLS REGIONAL LANDFILL GROUNDWATER WELLS

Well Number	Date Constructed	Decommissioned	Aquifer	Zone ¹	Purpose ²	Ground	Top of	Total Well	Screened Interval		Screened Interval		Coordinates	
						Surface Elevation	Well Casing Elevation	Depth	Depth		Elevation		Northing	Easting
MW-30A	9/6/1989	--	Perched	EPZ	WL/WQ	567.7	568.43	40.0	25	35	542.7	532.7	172345.48	1701628.59
MW-47	6/31/1985	--	Perched	EPZ	WL/WQ	633.6	634.60	50.0	23.5	43.5	610.1	590.1	171365.53	1701898.69
MW-48	5/24/1985	--	Perched	EPZ	WL	593.6	594.49	63.0	37	47	556.6	546.6	168758.73	1701985.17
MW-50	6/3/1985	--	Perched	EPZ	WL	636.2	637.02	39.5	27.5	37.5	608.7	598.7	170276.14	1701873.92
MW-62	2/1/1990	--	Perched	EPZ	WL/WQ	555.3	556.21	65.5	44	54	511.3	501.3	172397.77	1701719.18
MW-63	2/12/1990	--	Perched	EPZ	WL	513.8	515.88	22.0	12	17	501.8	496.8	172580.25	1701786.72
MW-102	1/27/2009	--	Perched	EPZ	WL	549.7	552.48	50	35	50	515.2	500.2	172313.75	1701858.76
MW-103	1/28/2009	--	Perched	EPZ	WL	636.8	639.08	40.00	25	35	611.8	601.8	170473.99	1702210.55
MW-104	1/29/2009	--	Perched	EPZ	WL	626.9	629.68	35.00	22	32	604.9	594.9	171153.34	1702169.14
MW-EB6	11/28/1990	--	Perched	EPZ	WL/WQ	587.9	589.61	50.0	20	30	567.9	557.9	171862.72	1702049.75
MW-27A	10/3/1985	--	Perched	NW	WL/WQ	583.2	584.23	80.0	59	69	524.2	514.2	169817.29	1697470.72
MW-28	6/21/1983	--	Perched	NW	WL/WQ	526.2	527.75	39.0	27	37	499.2	489.2	174231.84	1699966.20
MW-29	6/23/1983	--	Perched	NW	WL/WQ	531.7	532.92	60.0	17	27	514.7	504.7	173552.23	1700926.39
MW-55	10/2/1986	--	Perched	NW	WL/WQ	651.1	652.29	67.0	37.5	47.5	613.6	603.6	172364.53	1698110.11
MW-98	3/9/2001	--	Perched	NW	WL	501.6	503.73	22.5	10.7	20	490.9	481.6	174810.64	1699245.65
MW-25	6/3/1983	--	Perched	SSWA	WL	473.2	474.41	43.0	18	38	455.2	435.2	167760.97	1699580.14
MW-41S	7/12/1983	--	Perched	SSWA	WL	460.7	462.44	51.0	8	18	452.7	442.7	167171.51	1700100.82
MW-41D	7/12/1983	--	Perched	SSWA	WL	460.7	462.32	51.0	30	50	430.7	410.7	167171.51	1700100.82
MW-45	5/17/1985	--	Perched	SSWA	WL	487.7	488.40	64.0	31	41	447.6	457.6	167907.28	1699058.03
MW-79	11/5/1999	--	Perched	SSWA	WL	456.9	459.17	56.0	40.5	50	416.4	406.9	167175.91	1699495.56
MW-96	12/18/2001	4/1/2015	Perched	SSWA	AB	545.4	547.74	102.9	88.8	97.5	456.6	447.9	168667.73	1699434.47
MW-97	9/5/2001	4/1/2015	Perched	SSWA	AB	562.5	564.54	124.7	101	110	461.5	452.5	168380.87	1700636.96
MW-101	6/2/2006	--	Perched	SSWA	WL/WQ	472.1	474.72	57.50	44	54	428.1	418.1	167791.40	1699364
MW-105	1/30/2009	--	Perched	SSWA	WL	518.7	521.23	30.00	18	28	500.7	490.7	167697.49	1698320.49

Notes ¹Position of the well screen in the regional aquifer flow path analysis relative to waste placement and site utilities. .

- Zone Designations
12 US = Upgradient South Site Wells
3 UNW = Upgradient Northwest
2 UNE = Upgradient Northeast
2 CG = Cross Gradient
2 DW = Westside Downgradient
6 V = Vertical Key Facilities
1 I = Interior
5 DNF = Downgradient of North End Facilities outside Refuse Cells
6 DG = Downgradient Groundwater Flow

²WL = Water Level WQ = Water Quality

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2015

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-21	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-21	Regional	4/28/15	Groundwater Sampling	W21-150428-	
MW-22	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/13/15	Groundwater Sampling	W24-150413-	
MW-25	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-27A	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-27A	Perched	4/6/15	Groundwater Sampling	W27A150406-	
MW-28	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-28	Perched	4/13/15	Groundwater Sampling	W28-150413-	
MW-29	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-29	Perched	4/14/15	Groundwater Sampling	W29-150414-	
MW-30A	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-30A	Perched	4/6/15	Groundwater Sampling	W30A150406-	
MW-41D	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-41S	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-43	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-43	Regional	6/1/15	Groundwater Sampling	W43-150601-	
MW-45	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/24/15	Groundwater Sampling	W47-150424-	
MW-48	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-50	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-54	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-55	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-55	Perched	4/20/15	Groundwater Sampling	W55-150420-	
MW-56	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/14/15	Groundwater Sampling	W56-150414-	
MW-57	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-57	Regional	4/2/15	Groundwater Sampling	W57-150402-	
MW-58A	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/17/15	Groundwater Sampling	W59-150417-	
MW-60	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-60	Regional	4/7/15	Groundwater Sampling	W60-150407-	
MW-62	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-62	Perched	4/3/15	Groundwater Sampling	W62-150403-	
MW-63	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-64	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-64	Regional	4/28/15	Groundwater Sampling	W64-150428-	
MW-65	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-65	Regional	4/8/15	Groundwater Sampling	W65-150408-	
MW-66	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-66	Regional	4/2/15	Groundwater Sampling	W66-150402-	
MW-67	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-67	Regional	4/24/15	Groundwater Sampling	W67-150424-	
MW-68	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-68	Regional	4/27/15	Groundwater Sampling	W68-150427-	
MW-69	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-69	Regional	4/16/15	Groundwater Sampling	W69-150416-	
MW-70	Regional	4/1/15	Groundwater Elevation Measurement	NA	Well Decommissioned
MW-70	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/29/15	Groundwater Sampling	W72-150429-	
MW-73	Regional	4/1/15	Groundwater Elevation Measurement	NA	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2015

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-73	Regional	4/13/15	Groundwater Sampling	W73-150413-	
MW-74	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-74	Regional	4/20/15	Groundwater Sampling	W74R150420-	
MW-74	Regional	5/8/15	Groundwater Sampling	W74R150508-	
MW-74	Regional	6/19/15	Groundwater Sampling	W74R150619-	
MW-75	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-75	Regional	4/20/15	Groundwater Sampling	W75-150420-	
MW-75	Regional	5/8/15	Groundwater Sampling	W75-150508-	
MW-75	Regional	6/19/15	Groundwater Sampling	W75-150619-	
MW-76	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-76	Regional	4/7/15	Groundwater Sampling	W76-150407-	
MW-77	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-77	Regional	4/1/15		NA	Well Decommissioned
MW-78	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-78	Regional	4/1/15		NA	Well Decommissioned
MW-79	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-80	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-80	Regional	4/14/15	Groundwater Sampling	W80-150414-	
MW-81	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-81	Regional	4/14/15	Groundwater Sampling	W81-150414-	
MW-82	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-82	Regional	4/14/15	Groundwater Sampling	W82-150414-	
MW-83	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-83	Regional	4/7/15	Groundwater Sampling	W83-150407-	
MW-84	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-84	Regional	4/2/15	Groundwater Sampling	NA	Pump Failure
MW-84	Regional	6/1/15	Groundwater Sampling	W84-150601-	
MW-85	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-85	Regional	4/16/15	Groundwater Sampling	W85-150416-	
MW-86	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-86	Regional	4/27/15	Groundwater Sampling	W86-150427-	
MW-87	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-87	Regional	4/20/15	Groundwater Sampling	W87-150420-	
MW-87	Regional	5/14/15	Groundwater Sampling	W87-150514-	
MW-87	Regional	6/19/15	Groundwater Sampling	W87-150619-	
MW-88	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-88	Perched	4/16/15	QA/QC Sample	W85-150416D	Field Duplicate
MW-88	Regional	4/24/15	Groundwater Sampling	W88-150424-	
MW-89	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-89	Regional	4/24/15	Groundwater Sampling	W89-150424-	
MW-90	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-90	Regional	4/9/15	Groundwater Sampling	W90-150409-	
MW-91	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-91	Regional	4/13/15	Groundwater Sampling	W91-150413-	
MW-93	Regional	4/1/15	Groundwater Elevation Measurement	NA	No Access
MW-93	Regional	4/28/15	Groundwater Sampling	W93-150428-	
MW-94	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-94	Regional	4/2/15	Groundwater Sampling	W94-150402-	
MW-95	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-95	Regional	4/6/15	Groundwater Sampling	W95-150406-	
MW-96	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-96	Perched	4/1/15		NA	Well Decommissioned
MW-97	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-97	Perched	4/1/15		NA	Well Decommissioned
MW-98	Perched	4/1/15	Groundwater Elevation Measurement	NA	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2015

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-99	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-99	Regional	4/20/15	Groundwater Sampling	W99-150420-	
MW-99	Regional	5/14/15	Groundwater Sampling	W99-150514-	
MW-99	Regional	6/19/15	Groundwater Sampling	W99-150619-	
MW-100	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/3/15	Groundwater Sampling	W100150403-	
MW-100	Regional	4/3/15	QA/QC Sample	W100150403D	Field Duplicate
MW-101	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-101	Perched	4/9/15	Groundwater Sampling	W101150409-	
MW-102	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-103	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-104	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-105	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-106	Regional	4/1/15	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	4/1/15	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	4/6/15	Groundwater Sampling	WB6-150406-	
WS-NPW	Regional	4/13/15	Water Supply Characterization	WNPW150413-	
WS-NPW-1	Regional	4/1/15	Groundwater Elevation Measurement	NA	
WS-NPW-3	Regional	4/1/15	Groundwater Elevation Measurement	NA	
Equipment Blank	NA	4/9/15	QA/QC Sample	WU1H150409E	
Equipment Blank	NA	4/9/15	QA/QC Sample	WU1M150409E	
Equipment Blank	NA	4/9/15	QA/QC Sample	WU1S150409E	
Field Blank	NA	4/17/15	QA/QC Sample	W59-150417F	
Field Blank	NA	4/9/15	QA/QC Sample	W90-150409F	

NA = No sample ID assigned, No sample collected.

TABLE 3
SUMMARY OF EXCEEDANCES OF WAC 173-200-040
WATER QUALITY STANDARDS FOR GROUND WATERS OF THE STATE OF WASHINGTON
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
South, Northeast and Northwest Upgradient and Crossgradient Wells					
Arsenic (Total)	(mg/L)	MW-21	4/28/2015	W21-150428-	0.00111
		MW-93	4/28/2015	W93-150428-	0.00134
		MW-95	4/6/2015	W95-150406-	0.00109
		MW-99	4/20/2015	W99-150420-	0.00183
Iron (Dissolved)	(mg/L)	MW-21	4/28/2015	W21-150428-	2.15
		MW-24	4/13/2015	W24-150413-	3.07
		MW-57	4/2/2015	W57-150402-	7.88
		MW-59	4/17/2015	W59-150417-	4.34
		MW-65	4/8/2015	W65-150408-	4.36
Manganese (Dissolved)	(mg/L)	MW-21	4/28/2015	W21-150428-	0.0794
		MW-24	4/13/2015	W24-150413-	0.101
		MW-56	4/14/2015	W56-150414-	0.184
		MW-57	4/2/2015	W57-150402-	0.227 D
		MW-59	4/17/2015	W59-150417-	0.103
		MW-65	4/8/2015	W65-150408-	0.194 D
		MW-93	4/28/2015	W93-150428-	0.266
		MW-95	4/6/2015	W95-150406-	0.144 D
		MW-99	4/20/2015	W99-150420-	0.135
Trichloroethene	(ug/L)	MW-76	4/7/2015	W76-150407-	8.91
		MW-82	4/14/2015	W82-150414-	5.81
Vinyl Chloride	(ug/L)	MW-65	4/8/2015	W65-150408-	0.0374
Interior and Vertical to Facilities Wells					
Arsenic (Total)	(mg/L)	MW-64	4/28/2015	W64-150428-	0.00265
		MW-68	4/27/2015	W68-150427-	0.0468
		MW-100	4/3/2015	W100150403-	0.00249
Iron (Dissolved)	(mg/L)	MW-68	4/27/2015	W68-150427-	0.815
		MW-100	4/3/2015	W100150403-	0.93
Manganese (Dissolved)	(mg/L)	MW-67	4/24/2015	W67-150424-	0.159
		MW-68	4/27/2015	W68-150427-	0.281
		MW-100	4/3/2015	W100150403-	0.188 D

TABLE 3
SUMMARY OF EXCEEDANCES OF WAC 173-200-040
WATER QUALITY STANDARDS FOR GROUND WATERS OF THE STATE OF WASHINGTON

CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Wells Downgradient to Waste Cells and North end Facilities					
Arsenic (Total)	(mg/L)	MW-69	4/16/2015	W69-150416-	0.00244
		MW-80	4/14/2015	W80-150414-	0.0163
		MW-86	4/27/2015	W86-150427-	0.00237
		MW-87	4/20/2015	W87-150420-	0.0125
		MW-88	4/24/2015	W88-150424-	0.00103
		MW-89	4/24/2015	W89-150424-	0.00307
		MW-91	4/13/2015	W91-150413-	0.0267
Iron (Dissolved)	(mg/L)	MW-43	6/1/2015	W43-150601-	0.943
		MW-69	4/16/2015	W69-150416-	0.852
		MW-72	4/29/2015	W72-150429-	2.32
		MW-75	4/20/2015	W75-150420-	1.77
		MW-80	4/14/2015	W80-150414-	1.8
		MW-87	4/20/2015	W87-150420-	4.33
		MW-89	4/24/2015	W89-150424-	0.99
		MW-90	4/9/2015	W90-150409-	1.26
		MW-91	4/13/2015	W91-150413-	1.73
Manganese (Dissolved)	(mg/L)	MW-43	6/1/2015	W43-150601-	0.212
		MW-69	4/16/2015	W69-150416-	0.221
		MW-72	4/29/2015	W72-150429-	0.304
		MW-75	4/20/2015	W75-150420-	0.148
		MW-80	4/14/2015	W80-150414-	0.278
		MW-87	4/20/2015	W87-150420-	0.407
		MW-89	4/24/2015	W89-150424-	0.19
		MW-90	4/9/2015	W90-150409-	0.274 D
		MW-91	4/13/2015	W91-150413-	0.319

F1 Primary Federal Drinking Water Quality Standard

F2 Secondary Federal Drinking Water Quality Standard

SGW1 State of Washington Primary Ground Water Quality Criteria

SGW2 State of Washington Secondary Ground Water Quality Criteria

See Data Qualifier List for Qualifier Information.

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

Site ID			Upgradient South																	
			MW-24 4/13/15			MW-56 4/14/15			MW-57 4/2/15			MW-59 4/17/15			MW-60 4/7/15			MW-65 4/8/15		
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
Calcium	40.1	2	13.4	0.668663	37.6	13.6	0.678643	43.9	14.3	0.713573	36.9	14.1	0.703593	37.7	15.8	0.788423	47.2	11.6	0.578842	36.7
Magnesium	24.3	2	8.9	0.73236	41.2	7.4	0.611397	39.6	7.9	0.652541	33.7	8.8	0.724954	38.9	7.4	0.611397	36.6	7.1	0.585888	37.1
Potassium	39.1	1	0.9	0.023709	1.3	1.1	0.027878	1.8	0.9	0.02174	1.1	1.1	0.027367	1.5	1.1	0.026855	1.6	0.9	0.022993	1.5
Sodium	23.0	1	5.5	0.238367	13.4	5.0	0.218358	14.1	5.8	0.253591	13.1	5.7	0.248371	13.3	5.5	0.240107	14.4	5.2	0.226623	14.4
Iron	55.8	2	3.07	0.109943	6.2	0.05	0.001755	0.1	7.88	0.2822	14.6	4.34	0.155425	8.3	0.12	0.004333	0.3	4.36	0.156141	9.9
Manganese	54.9	2	0.10	0.003677	0.2	0.18	0.006698	0.4	0.23	0.008264	0.4	0.10	0.00375	0.2	0.00	9.06E-05	0.0	0.19	0.007063	0.4
Ammonia-N	14.0	1	0.04	0.00277	0.2	0.01	0.000878	0.1	0.02	0.001599	0.1	0.02	0.001242	0.1	0.01	0.000714	0.0	0.01	0.000714	0.0
Total Cations (meq/L)			1.8			1.5			1.9			1.9			1.7			1.6		
Anions																				
Alkalinity, Total			65			54			62			63			72			54		
Carbonate	60.0	2	0.07435	0.002478	0.1	0.03385	0.001128	0.1	0.02363	0.000788	0.0	0.04996	0.001665	0.1	0.0432	0.00144	0.1	0.03256	0.001086	0.1
Bicarbonate	61.0	1	79.15	1.297326	73.3	65.57	1.07471	65.3	75.96	1.245025	65.4	76.88	1.260145	68.9	87.63	1.436343	83.7	66.06	1.082751	71.5
Chloride	35.5	1	3.9	0.109441	6.2	4.1	0.116774	7.1	6.0	0.16952	8.9	5.6	0.159084	8.7	2.5	0.070798	4.1	3.7	0.103517	6.8
Nitrate-N	14.0	1	0.01	0.000714	0.0	2.78	0.198472	12.1	0.02	0.001499	0.1	0.01	0.000857	0.0	1.01	0.072107	4.2	0.03	0.002213	0.1
Sulfate	96.1	2	17.3	0.360201	20.3	12.2	0.254014	15.4	23.4	0.487208	25.6	19.5	0.406006	22.2	6.5	0.134503	7.8	15.6	0.324805	21.4
Total Anions (meq/L)			1.8			1.6			1.9			1.8			1.7			1.5		
Total Ions (meq/L)			3.5			3.2			3.8			3.7			3.4			3.1		
Cation/Anion Ratio			1.01			0.94			1.02			1.02			0.97			1.04		
Percent Difference			0.3			-3.1			0.8			1.0			-1.3			2.1		
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)			1.66			1.54			1.64			1.70			1.67			1.41		
Calcium						40.21			44.17			43.47			41.28			47.30		
Magnesium						44.04			39.80			39.75			42.54			36.68		
Sodium + Potassium						15.76			16.03			16.77			16.18			16.02		
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.77			1.45			1.90			1.83			1.64			1.51		
Sulfate						20.357			17.559			25.608			22.224			8.186		
Chloride						6.185			8.072			8.910			8.708			4.309		
Bicarbonate + Carbonate						73.458			74.369			65.482			69.068			87.505		

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

Site ID			Upgradient South												Upgradient Northwest											
			MW-76 4/7/15			MW-82 4/14/15			MW-83 4/7/15			MW-94 4/2/15			MW-21 4/28/15			MW-73 4/13/15			MW-84 6/1/15					
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)			
Calcium	40.1	2	22.2	1.107784	46.3	22.7	1.132735	43.4	33.8	1.686627	51.2	25.2	1.257485	49.7	10.2	0.508982	39.2	11.5	0.573852	43.4	11.3	0.563872	38.3			
Magnesium	24.3	2	10.5	0.86402	36.1	13.7	1.12734	43.2	14.7	1.209628	36.7	11.3	0.92985	36.7	5.5	0.455873	35.1	6.0	0.496194	37.5	7.9	0.649249	44.1			
Potassium	39.1	1	1.3	0.034273	1.4	1.7	0.042969	1.6	2.3	0.059082	1.8	2.0	0.051665	2.0	1.0	0.025116	1.9	0.8	0.020001	1.5	1.0	0.024553	1.7			
Sodium	23.0	1	8.8	0.384084	16.1	7.0	0.305353	11.7	7.8	0.339281	10.3	6.7	0.291869	11.5	5.2	0.227058	17.5	5.3	0.232277	17.6	5.4	0.233147	15.8			
Iron	55.8	2	0.01	0.000358	0.0	0.02	0.000824	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	2.15	0.076996	5.9	0.01	0.000358	0.0	0.01	0.000358	0.0			
Manganese	54.9	2	0.00	3.64E-05	0.0	0.00	3.64E-05	0.0	0.00	3.64E-05	0.0	0.00	3.64E-05	0.0	0.08	0.002891	0.2	0.00	3.64E-05	0.0	0.00	6.63E-05	0.0			
Ammonia-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.000714	0.1	0.01	0.000714	0.1	0.01	0.000714	0.0			
Total Cations (meq/L)			2.4			2.6			3.3			2.5			1.3			1.3			1.5					
Anions																										
Alkalinity, Total			68			101			117			92			52			53			57					
Carbonate	60.0	2	0.01457	0.000486	0.0	0.04397	0.001466	0.1	0.05984	0.001995	0.1	0.03755	0.001252	0.0	0.16327	0.005442	0.4	0.02955	0.000985	0.1	0.03856	0.001285	0.1			
Bicarbonate	61.0	1	83.30	1.365308	55.6	123.13	2.01823	72.8	142.62	2.337653	71.4	112.65	1.84647	70.6	63.11	1.034402	82.8	64.23	1.052856	72.6	69.71	1.142542	73.8			
Chloride	35.5	1	16.1	0.454122	18.5	12.2	0.344118	12.4	25.2	0.7108	21.7	17.5	0.493611	18.9	2.7	0.076439	6.1	4.6	0.129467	8.9	3.6	0.102671	6.6			
Nitrate-N	14.0	1	2.51	0.179196	7.3	0.67	0.047833	1.7	0.60	0.04255	1.3	2.13	0.152067	5.8	0.01	0.000714	0.1	1.08	0.077104	5.3	0.54	0.038481	2.5			
Sulfate	96.1	2	22.0	0.458058	18.6	17.3	0.360201	13.0	8.7	0.181141	5.5	5.9	0.122427	4.7	6.3	0.132004	10.6	9.1	0.190302	13.1	12.6	0.262343	17.0			
Total Anions (meq/L)			2.5			2.8			3.3			2.6			1.2			1.5			1.5					
Total Ions (meq/L)			4.8			5.4			6.6			5.1			2.5			2.8			3.0					
Cation/Anion Ratio			0.97			0.94			1.01			0.97			1.04			0.91			0.95					
Percent Difference			-1.4			-3.0			0.3			-1.6			1.9			-4.6			-2.5					
Trilinear Diagram Data																										
sum (Ca, Mg, Na+K)			2.39			2.61			3.29			2.53			1.22			1.32			1.47					
Calcium						46.35			43.43			51.19			49.69			41.82			43.40					
Magnesium						36.15			43.22			36.72			36.74			37.46			37.52					
Sodium + Potassium						17.50			13.35			12.09			13.57			20.72			19.08					
									100.0									100.0			100.0					
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			2.28			2.72			3.23			2.46			1.25			1.37			1.51					
Sulfate						20.108			13.223			5.605			4.969			10.575			13.854					
Chloride						19.935			12.633			21.995			20.035			6.124			9.425					
Bicarbonate + Carbonate						59.957			74.144			72.399			74.996			83.302			76.721					

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

Site ID			Upgradient Northeast						Cross Gradient						
			MW-81 4/14/15			MW-99 4/20/15			MW-93 4/28/15			MW-95 4/6/15			
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	
Calcium	40.1	2	10.8	0.538922	42.1	9.4	0.470559	35.5	35.0	1.746507	47.3	20.3	1.012974	46.1	
Magnesium	24.3	2	5.8	0.479737	37.4	4.5	0.36618	27.6	18.0	1.481177	40.1	10.8	0.888706	40.4	
Potassium	39.1	1	0.7	0.019131	1.5	0.9	0.022686	1.7	1.6	0.040667	1.1	1.2	0.029413	1.3	
Sodium	23.0	1	5.6	0.242717	18.9	10.4	0.452375	34.1	9.4	0.410182	11.1	6.0	0.260551	11.8	
Iron	55.8	2	0.01	0.000358	0.0	0.05	0.001647	0.1	0.01	0.000358	0.0	0.01	0.000358	0.0	
Manganese	54.9	2	0.00	3.64E-05	0.0	0.14	0.004915	0.4	0.27	0.009684	0.3	0.14	0.005242	0.2	
Ammonia-N	14.0	1	0.01	0.000714	0.1	0.11	0.007496	0.6	0.06	0.003941	0.1	0.03	0.001899	0.1	
Total Cations (meq/L)				1.3			1.3			3.7			2.2		
Anions															
Alkalinity, Total		47				57				118				85	
Carbonate	60.0	2	0.06981	0.002327	0.2	0.36854	0.012285	0.9	0.10481	0.003494	0.1	0.14701	0.0049	0.2	
Bicarbonate	61.0	1	57.69	0.945531	70.6	68.18	1.117547	79.7	143.75	2.356151	61.6	103.40	1.694844	76.9	
Chloride	35.5	1	4.3	0.121005	9.0	3.3	0.093363	6.7	2.8	0.079824	2.1	5.0	0.14216	6.5	
Nitrate-N	14.0	1	1.53	0.109231	8.2	0.01	0.000857	0.1	0.01	0.000928	0.0	0.01	0.000714	0.0	
Sulfate	96.1	2	7.8	0.16157	12.1	8.5	0.177602	12.7	66.5	1.384586	36.2	17.3	0.360201	16.4	
Total Anions (meq/L)				1.3			1.4			3.8			2.2		
Total Ions (meq/L)				2.6			2.7			7.5			4.4		
Cation/Anion Ratio				0.96			0.95			0.97			1.00		
Percent Difference				-2.2			-2.8			-1.8			-0.1		
Trilinear Diagram Data															
sum (Ca, Mg, Na+K)			1.28			1.31			3.68			2.19			
Calcium						42.09			35.87			47.48			
Magnesium						37.46			27.91			40.27			
Sodium + Potassium						20.45			36.21			12.26			
						100.0									
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.23			1.40			3.82			2.20			
Sulfate						13.131			12.679			36.207			
Chloride						9.834			6.665			2.087			
Bicarbonate + Carbonate						77.034			80.656			61.705			

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

Site ID			Interior and Vertical to Facilities															Downgradient Northwest							
			MW-100 4/3/15			MW-64 4/28/15			MW-66 4/2/15			MW-67 4/24/15			MW-68 4/27/15			MW-69 4/16/15			MW-72 4/29/15				
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)		
Calcium	40.1	2	25.9	1.292415	43.5	18.0	0.898204	38.3	20.2	1.007984	37.4	29.0	1.447106	42.2	25.6	1.277445	45.1	27.2	1.357285	47.5	28.2	1.407186	44.8		
Magnesium	24.3	2	14.7	1.209628	40.7	13.4	1.102654	47.1	15.9	1.308373	48.6	19.4	1.596379	46.5	13.9	1.143798	40.3	13.2	1.086196	38.0	15.8	1.300144	41.4		
Potassium	39.1	1	1.8	0.045782	1.5	1.6	0.039899	1.7	1.3	0.032226	1.2	1.7	0.042201	1.2	1.6	0.040922	1.4	1.6	0.041178	1.4	1.8	0.046805	1.5		
Sodium	23.0	1	8.8	0.383649	12.9	6.8	0.294914	12.6	7.9	0.343631	12.8	7.7	0.335367	9.8	7.6	0.332322	11.7	7.6	0.332322	11.6	6.8	0.294914	9.4		
Iron	55.8	2	0.93	0.033305	1.1	0.09	0.003212	0.1	0.01	0.000358	0.0	0.15	0.005408	0.2	0.82	0.029187	1.0	0.85	0.030512	1.1	2.32	0.083084	2.6		
Manganese	54.9	2	0.19	0.006844	0.2	0.04	0.001405	0.1	0.00	3.64E-05	0.0	0.16	0.005788	0.2	0.28	0.01023	0.4	0.22	0.008045	0.3	0.30	0.011067	0.4		
Ammonia-N	14.0	1	0.01	0.000807	0.0	0.04	0.002592	0.1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.001	0.0	0.01	0.001042	0.0	0.01	0.001	0.0		
Total Cations (meq/L)			3.0			2.3			2.7			3.4			2.8			2.9			3.1			0.0	
Anions																									
Alkalinity, Total			125			97			109			136			127			123			115				
Carbonate	60.0	2	0.06694	0.002231	0.1	0.06102	0.002034	0.1	0.09907	0.003302	0.1	0.09599	0.0032	0.1	0.09827	0.003276	0.1	0.28018	0.009339	0.3	0.07932	0.002644	0.1		
Bicarbonate	61.0	1	152.36	2.497392	86.1	118.22	1.937674	76.8	132.78	2.176369	76.1	165.72	2.716391	74.1	154.74	2.536342	85.6	149.49	2.450291	84.1	140.14	2.29701	68.6		
Chloride	35.5	1	2.9	0.081798	2.8	3.0	0.084901	3.4	11.1	0.313091	10.9	4.6	0.130595	3.6	2.8	0.078132	2.6	3.8	0.106902	3.7	5.0	0.139904	4.2		
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.72	0.051688	1.8	0.22	0.015778	0.4	0.01	0.000714	0.0	0.01	0.000714	0.0	0.02	0.001285	0.0		
Sulfate	96.1	2	15.3	0.318559	11.0	23.9	0.497618	19.7	15.2	0.316477	11.1	38.5	0.801602	21.9	16.5	0.343544	11.6	16.6	0.345626	11.9	43.5	0.905707	27.1		
Total Anions (meq/L)			2.9			2.5			2.9			3.7			3.0			2.9			3.3			0.0	
Total Ions (meq/L)			5.9			4.9			5.6			7.1			5.8			5.8			6.5			0.0	
Cation/Anion Ratio			1.02			0.93			0.94			0.94			0.96			0.98			0.94			0.0	
Percent Difference			1.2			-3.7			-3.0			-3.3			-2.2			-1.0			-3.1			0.0	
Trilinear Diagram Data																									
sum (Ca, Mg, Na+K)			2.93			2.34			2.69			3.42			2.79			2.82			3.05			0.0	
Calcium						44.09			38.46			37.44			42.30			45.71			48.18			46.15	
Magnesium						41.26			47.21			48.60			46.66			40.93			38.56			42.64	
Sodium + Potassium						14.65			14.33			13.96			11.04			13.36			13.26			11.21	
						100.0																		100.0	
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			2.90			2.52			2.81			3.65			2.96			2.91			3.35			0.0	
Sulfate						10.985			19.729			11.266			21.951			11.601			11.868			27.074	
Chloride						2.821			3.366			11.145			3.576			2.638			3.671			4.182	
Bicarbonate + Carbonate						86.194			76.905			77.589			74.473			85.760			84.461			68.744	

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

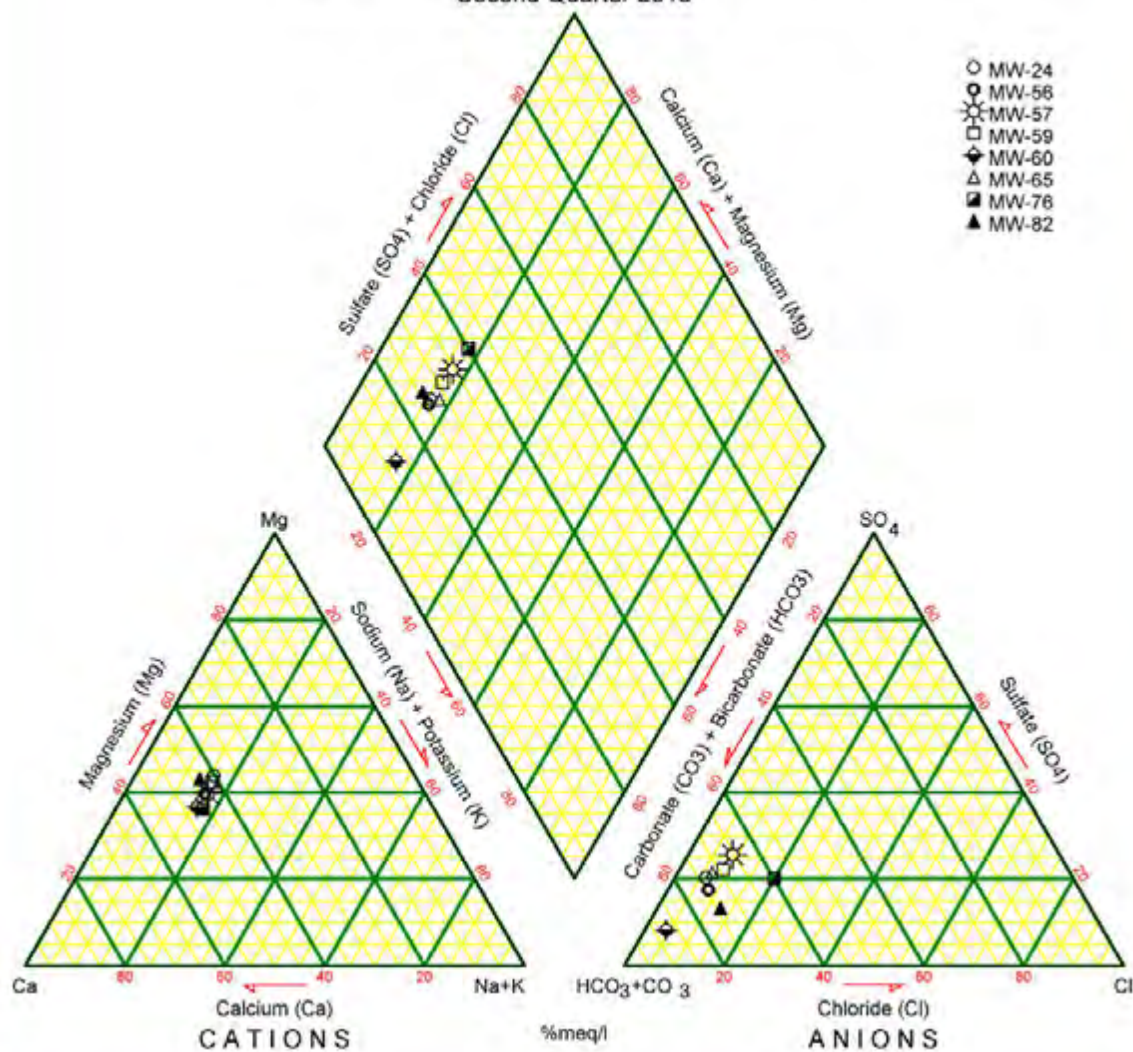
Site ID			Downgradient																	
			MW-74 4/20/15			MW-75 4/20/15			MW-80 4/14/15			MW-85 4/16/15			MW-87 4/20/15			MW-91 4/13/15		
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
Calcium	40.1	2	44.1	2.200599	39.7	23.9	1.192615	37.8	27.2	1.357285	45.4	25.7	1.282435	42.6	38.3	1.911178	40.7	22.8	1.137725	39.9
Magnesium	24.3	2	33.7	2.773092	50.0	18.2	1.497634	47.5	14.5	1.19317	39.9	16.2	1.333059	44.2	26.1	2.147706	45.7	15.4	1.267229	44.4
Potassium	39.1	1	2.1	0.053199	1.0	1.7	0.043992	1.4	1.6	0.040411	1.4	1.5	0.038365	1.3	2.2	0.055501	1.2	1.7	0.044247	1.6
Sodium	23.0	1	11.9	0.517622	9.3	8.1	0.352331	11.2	7.5	0.324057	10.8	8.2	0.35842	11.9	9.4	0.409312	8.7	7.6	0.330582	11.6
Iron	55.8	2	0.01	0.000358	0.0	1.77	0.063387	2.0	1.80	0.064462	2.2	0.01	0.000358	0.0	4.33	0.155067	3.3	1.73	0.061955	2.2
Manganese	54.9	2	0.00	3.64E-05	0.0	0.15	0.005388	0.2	0.28	0.01012	0.3	0.00	3.64E-05	0.0	0.41	0.014817	0.3	0.32	0.011613	0.4
Ammonia-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.000857	0.0	0.01	0.000714	0.0	0.02	0.001178	0.0	0.01	0.000828	0.0
Total Cations (meq/L)			5.5			3.2			3.0			3.0			4.7			2.9		
Anions																				
Alkalinity, Total			221			98			100			103			87			92		
Carbonate	60.0	2	0.12976	0.004325	0.1	0.0722	0.002407	0.1	0.12254	0.004085	0.1	0.08941	0.00298	0.1	0.0371	0.001237	0.0	0.09118	0.003039	0.1
Bicarbonate	61.0	1	269.36	4.415009	75.2	119.05	1.951299	59.6	121.75	1.995614	66.2	125.48	2.056709	64.8	106.31	1.7425	36.1	111.44	1.826685	60.8
Chloride	35.5	1	29.2	0.823626	14.0	11.1	0.313091	9.6	5.5	0.154289	5.1	9.1	0.25696	8.1	7.5	0.212394	4.4	9.2	0.25837	8.6
Nitrate-N	14.0	1	0.29	0.020775	0.4	0.01	0.000714	0.0	0.01	0.000714	0.0	0.11	0.007639	0.2	0.02	0.001071	0.0	0.04	0.002713	0.1
Sulfate	96.1	2	29.2	0.607969	10.4	48.4	1.007729	30.8	41.2	0.857819	28.5	40.8	0.84949	26.8	138.0	2.873276	59.5	43.9	0.914035	30.4
Total Anions (meq/L)			5.9			3.3			3.0			3.2			4.8			3.0		
Total Ions (meq/L)			11.4			6.4			6.0			6.2			9.5			5.9		
Cation/Anion Ratio			0.94			0.96			0.99			0.95			0.97			0.95		
Percent Difference			-2.9			-1.9			-0.4			-2.6			-1.4			-2.6		
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)			5.54			3.09			2.91			3.01			4.52			2.78		
Calcium			39.69			38.64			46.56			42.57			42.25			40.93		
Magnesium			50.02			48.52			40.93			44.25			47.48			45.59		
Sodium + Potassium			10.30			12.84			12.50			13.17			10.28			13.48		
			100.0			100.0									100.0					
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			5.85			3.27			3.01			3.17			4.83			3.00		
Sulfate			10.391			30.775			28.482			26.830			59.495			30.446		
Chloride			14.077			9.561			5.123			8.116			4.398			8.606		
Bicarbonate + Carbonate			75.532			59.664			66.395			65.054			36.107			60.948		

Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

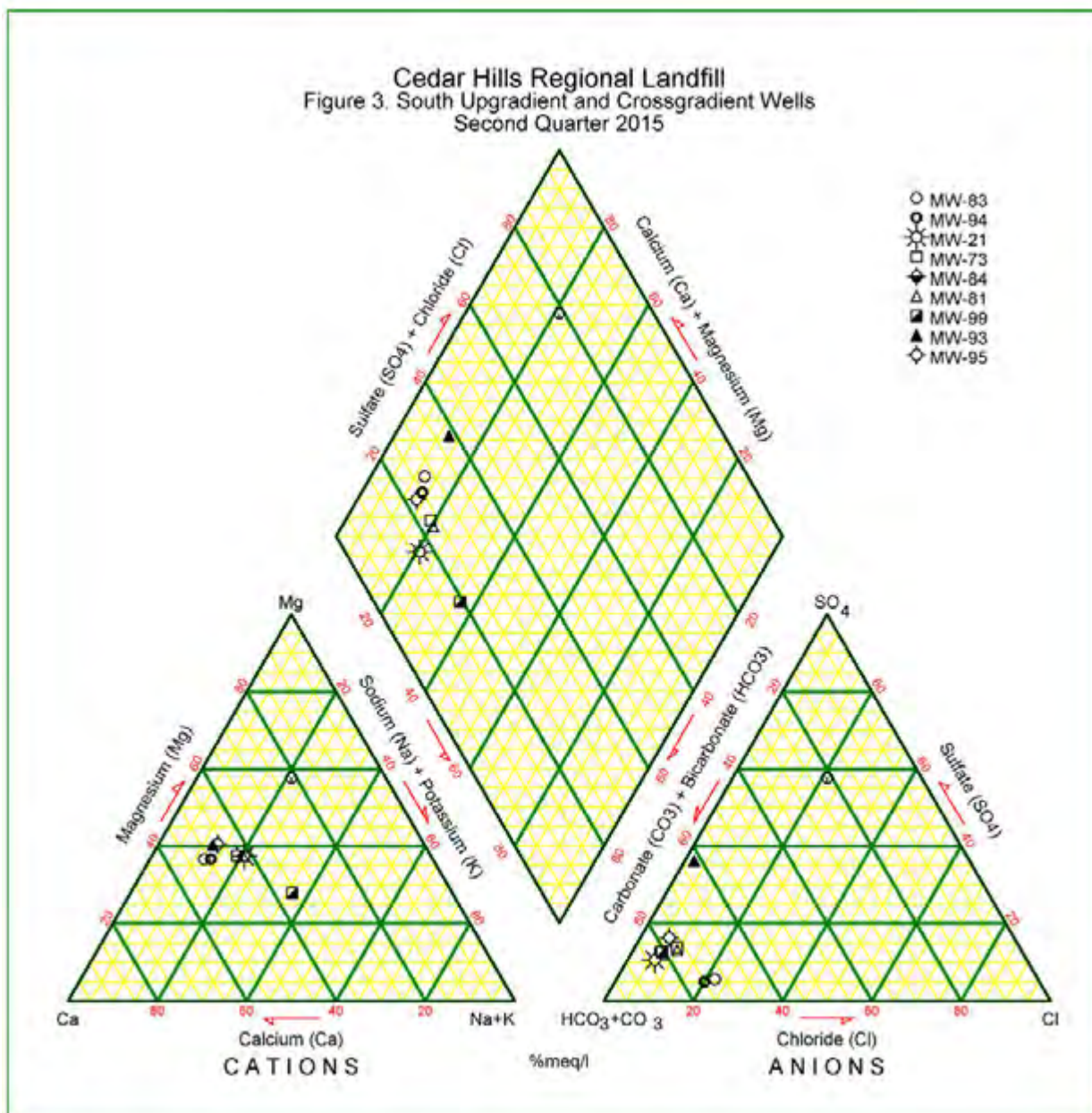
Data Collected from April 1, 2015 to June 30, 2015

Site ID			Downgradient of North End Facilities														
			MW-86 4/27/15			MW-88 4/24/15			MW-89 4/24/15			MW-90 6/1/15			MW-43 6/1/15		
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
Calcium	40.1	2	13.1	0.653693	39.5	8.5	0.422655	34.0	12.3	0.613772	33.5	17.0	0.848303	41.2	14.0	0.698603	40.8
Magnesium	24.3	2	8.6	0.709319	42.9	7.0	0.572722	46.1	10.0	0.822876	44.9	10.3	0.847562	41.1	8.4	0.692862	40.5
Potassium	39.1	1	1.2	0.029925	1.8	0.7	0.018952	1.5	1.4	0.036063	2.0	1.3	0.03325	1.6	1.3	0.033761	2.0
Sodium	23.0	1	5.9	0.254461	15.4	5.2	0.227058	18.3	7.3	0.315358	17.2	6.3	0.27447	13.3	5.6	0.244022	14.2
Iron	55.8	2	0.20	0.007055	0.4	0.01	0.000358	0.0	0.99	0.035454	1.9	1.26	0.045123	2.2	0.94	0.033771	2.0
Manganese	54.9	2	0.00	0.000162	0.0	0.00	3.64E-05	0.0	0.19	0.006917	0.4	0.27	0.009975	0.5	0.21	0.007718	0.5
Ammonia-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.1	0.01	0.000764	0.0	0.02	0.001207	0.1	0.03	0.001842	0.1
Total Cations (meq/L)			1.7			1.2			1.8			2.1			1.7		
Anions																	
Alkalinity, Total			63			51			71			69			68		
Carbonate	60.0	2	0.038548	0.001285	0.1	0.055604	0.001853	0.1	0.102331	0.003411	0.2	0.071677	0.002389	0.1	0.10247	0.003416	0.2
Bicarbonate	61.0	1	76.42	1.252526	72.4	61.98	1.015993	78.1	86.53	1.418375	73.4	83.67	1.371404	65.4	82.75	1.35638	76.0
Chloride	35.5	1	4.3	0.122416	7.1	3.6	0.101543	7.8	6.2	0.174597	9.0	4.2	0.117903	5.6	4.6	0.130877	7.3
Nitrate-N	14.0	1	0.38	0.027201	1.6	0.52	0.036982	2.8	0.02	0.001214	0.1	0.01	0.000714	0.0	0.01	0.000714	0.0
Sulfate	96.1	2	15.7	0.326887	18.9	6.9	0.144288	11.1	16.1	0.335216	17.3	29.0	0.603804	28.8	14.1	0.293574	16.4
Total Anions (meq/L)			1.7			1.3			1.9			2.1			1.8		
Total Ions (meq/L)			3.4			2.5			3.8			4.2			3.5		
Cation/Anion Ratio			0.96			0.96			0.95			0.98			0.96		
Percent Difference			-2.2			-2.3			-2.7			-0.9			-2.1		
Trilinear Diagram Data																	
sum (Ca, Mg, Na+K)			1.65			1.24			1.79			2.00			1.67		
Calcium						39.68			34.05			42.34			41.85		
Magnesium						43.06			46.14			42.30			41.51		
Sodium + Potassium						17.26			19.82			19.65			16.64		
															100.0		
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.70			1.26			1.93			2.10			1.78		
Sulfate						19.194			11.418			17.354			28.814		
Chloride						7.188			8.036			9.039			5.626		
Bicarbonate + Carbonate						73.619			80.546			73.607			65.559		

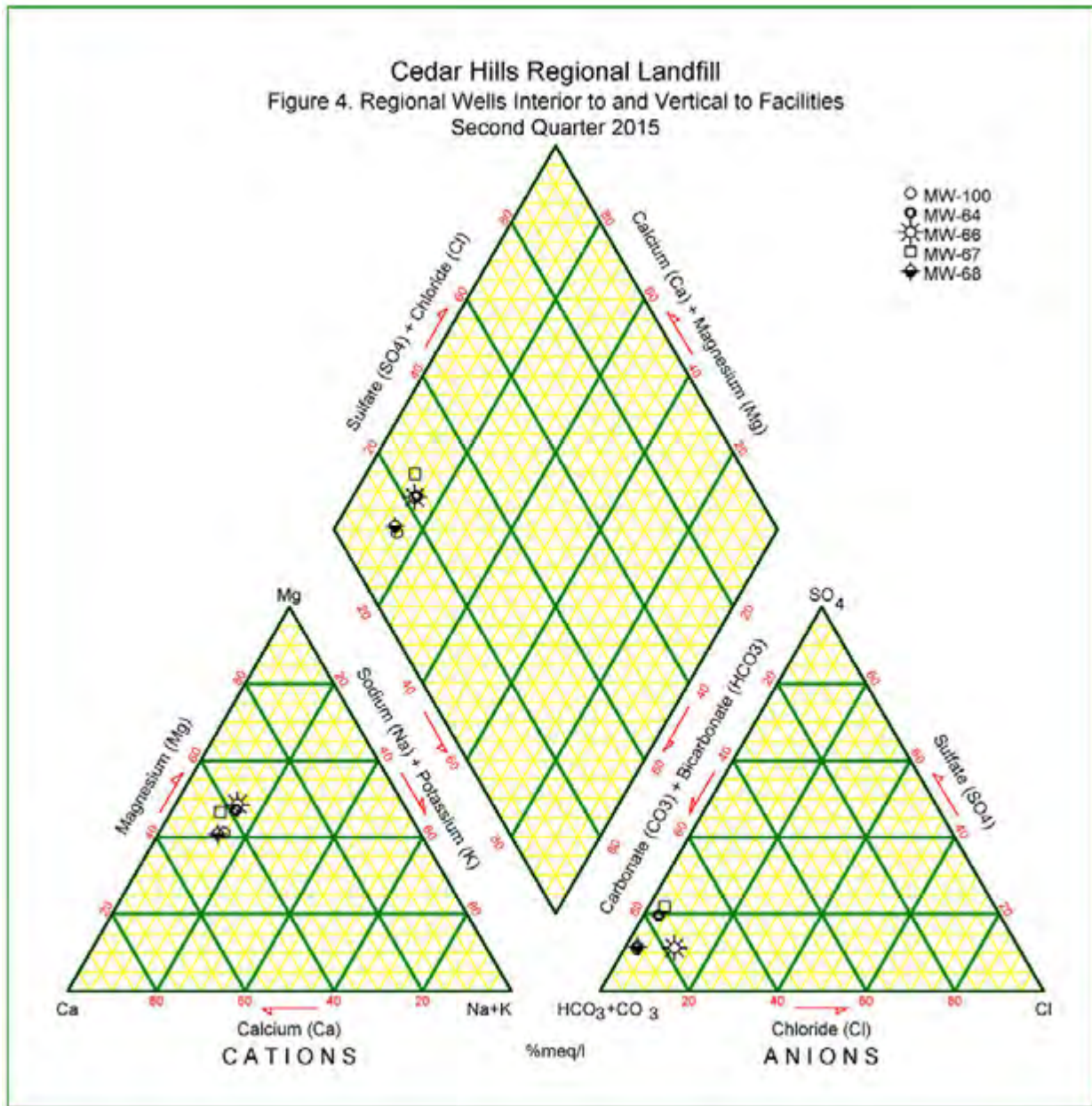
Cedar Hills Regional Landfill
Figure 2. Regional Aquifer South Upgradient Wells
Second Quarter 2015



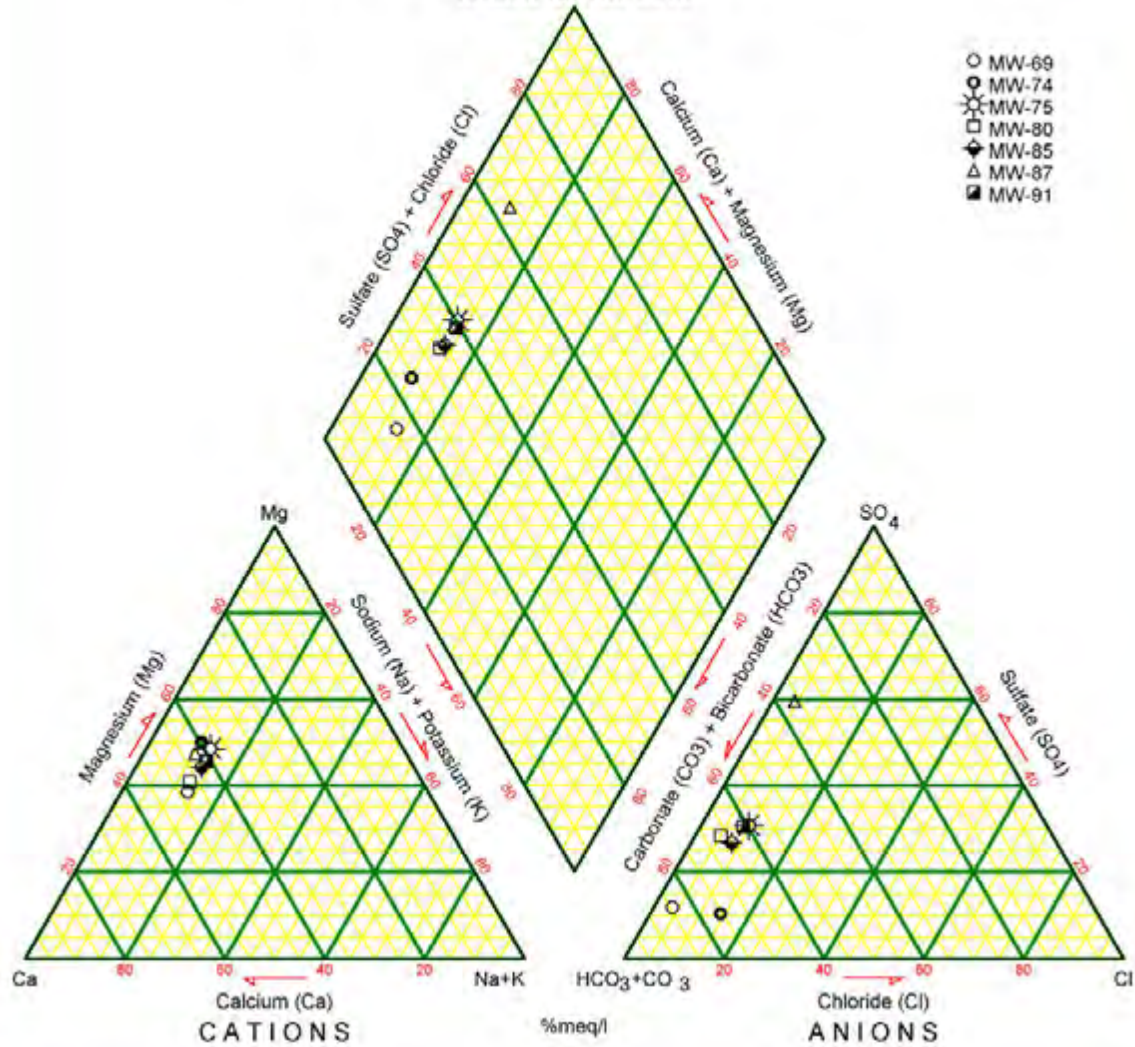
Cedar Hills Regional Landfill
Figure 3. South Upgradient and Crossgradient Wells
Second Quarter 2015



Cedar Hills Regional Landfill
Figure 4. Regional Wells Interior to and Vertical to Facilities
Second Quarter 2015



Cedar Hills Regional Landfill
 Figure 5. Regional Aquifer Downgradient Wells
 Second Quarter 2015



Cedar Hills Regional Landfill

Figure 6. Regional Aquifer Downgradient of Northend Facilities
Second Quarter 2015

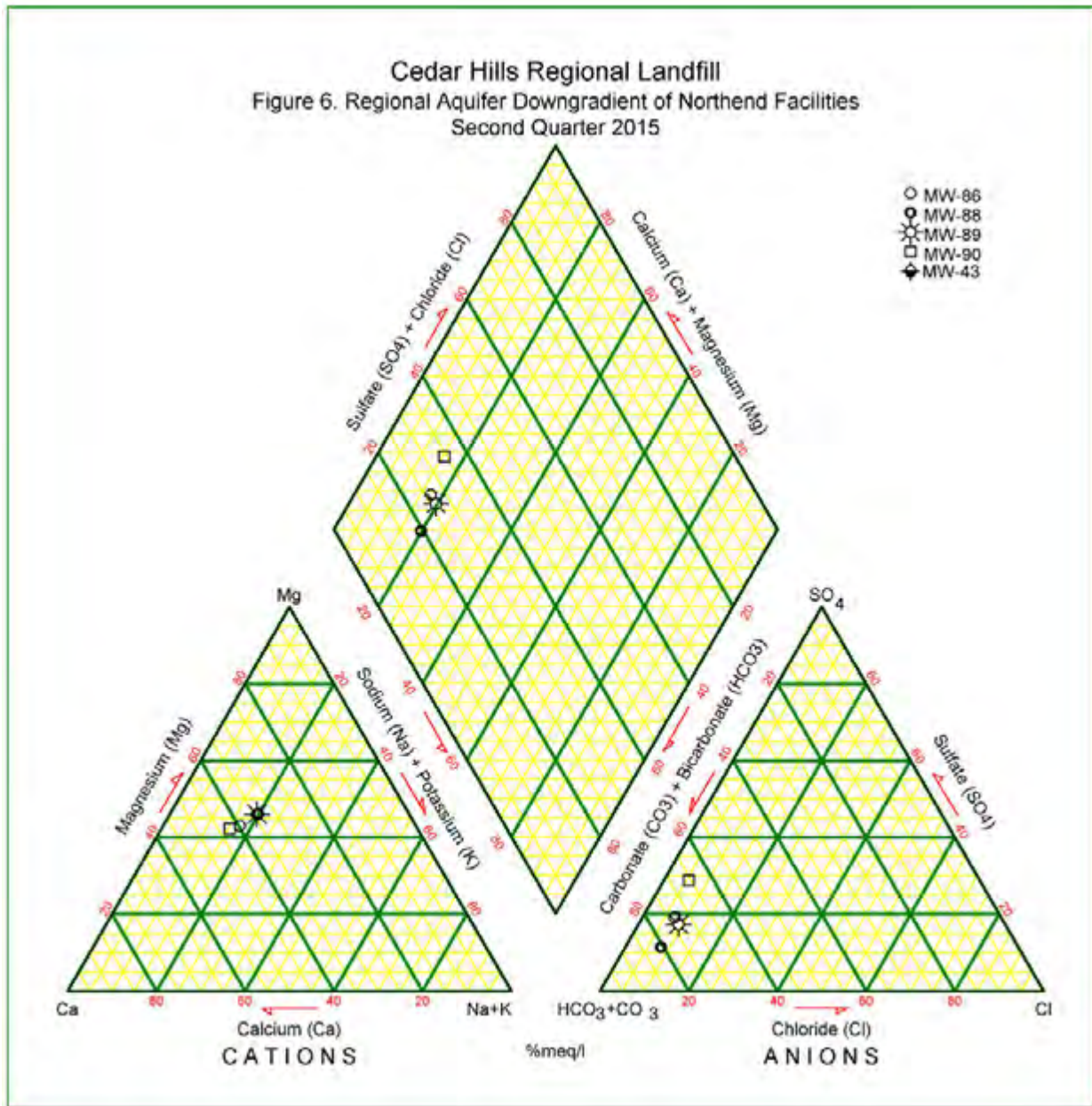


TABLE 5
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT EXCEEDANCES

(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample Value	Intrawell Limit Value
South, Northeast and Northwest Upgradient and Crossgradient Wells					
Nitrate as N	mg/L	MW-56	04/14/15	2.78	1.57
		MW-76	04/07/15	2.51	2.45
		MW-94	04/02/15	2.13	1.51
Interior and Vertical to Facilities Wells					
NO PREDICTION LIMIT EXCEEDANCES THIS QUARTER					
Wells Downgradient to Waste Cells and North end Facilities					
Arsenic, Total	mg/L	MW-80	04/14/15	0.0163	0.0098
Barium, Total	mg/L	MW-80	04/14/15	0.0158	0.015

TABLE 6
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN REGIONAL AQUIFER WELLS
(Data Collected from April 1, 2015 to June 30, 2015)

Analyte	Site ID	Date	Sample ID	ug/L
South, Northeast and Northwest Upgradient and Crossgradient Wells				
Chloromethane	MW-99	06/19/15	W99-150619-	1.3 G
<i>cis</i> -1,2-Dichloroethene	MW-56	04/14/15	W56-150414-	1.22
	MW-59	04/17/15	W59-150417-	0.788
	MW-76	04/07/15	W76-150407-	0.567
Tetrachloroethene	MW-76	04/07/15	W76-150407-	0.442
Trichloroethene	MW-76	4/7/2015	W76-150407-	8.91
	MW-82	4/14/2015	W82-150414-	5.81
	MW-83	4/7/2015	W83-150407-	1.88
	MW-94	04/02/15	W94-150402-	2.63
Vinyl Chloride	MW-65	4/8/2015	W65-150408-	0.0374
Interior and Vertical to Facilities Wells				
No Detections this Quarter				
Downgradient Wells				
Chloromethane	MW-75	6/19/2015	W75-150619-	0.496 G
	MW-87	6/19/2015	W87-150619-	0.23 GT

TABLE 7
SUMMARY OF EXCEEDANCES OF WAC 173-200-040
WATER QUALITY STANDARDS FOR GROUND WATERS OF THE STATE OF WASHINGTON

CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
North and West Perched Wells					
pH (field)	(pH units)	MW-28	4/13/15	W28-150413-	5.82
		MW-29	4/14/15	W29-150414-	6.30
Arsenic (Total)	(mg/L)	MW-27A	4/6/15	W27A150406-	0.0174
Iron (Dissolved)	(mg/L)	MW-55	4/20/15	W55-150420-	0.251
Manganese (Dissolved)	(mg/L)	MW-27A	4/6/2015	W27A150406-	0.0586 D
		MW-55	4/20/15	W55-150420-	0.147
East Perched Zone Wells					
pH (field)	(pH units)	MW-30A	4/6/15	W30A150406-	6.46
		MW-62	6/9/15	W62-150610-	6.41
		MW-EB6	4/6/15	WB6-150406-	6.2
Iron (Dissolved)	(mg/L)	MW-47	4/24/15	W47-150424-	0.968
		MW-EB6	4/6/15	WB6-150406-	2.57
Manganese (Dissolved)	(mg/L)	MW-47	4/24/15	W47-150424-	2.65 D
		MW-EB6	4/6/15	WB6-150406-	0.119 D
Total Dissolved Solids	(mg/L)	MW-47	4/24/15	W47-150424-	715
1,1-Dichloroethane	(ug/L)	MW-62	4/3/15	W62-150403-	1.28
		MW-30A	4/6/15	W30A150406-	2.25
Vinyl Chloride	(ug/L)	MW-47	4/24/15	W47-150424-	5.26
South Solid Waste Area Perched Wells					
pH (field)	(pH units)	MW-101	4/9/2015	W101150409-	6.46
Arsenic (Total)	(mg/L)	MW-101	4/9/2015	W101150409-	0.00326
Iron (Dissolved)	(mg/L)	MW-101	4/9/2015	W101150409-	0.932
Manganese (Dissolved)	(mg/L)	MW-101	4/9/2015	W101150409-	1.2 D
Vinyl Chloride	(ug/L)	MW-101	4/9/2015	W101150409-	0.224

See Data Qualifier List for Qualifier Information.

Table 8
Ion Balance Calculations
Cedar Hills Landfill Perched Zones GW Monitoring Wells

Data Collected from April 1, 2015 to June 30, 2015

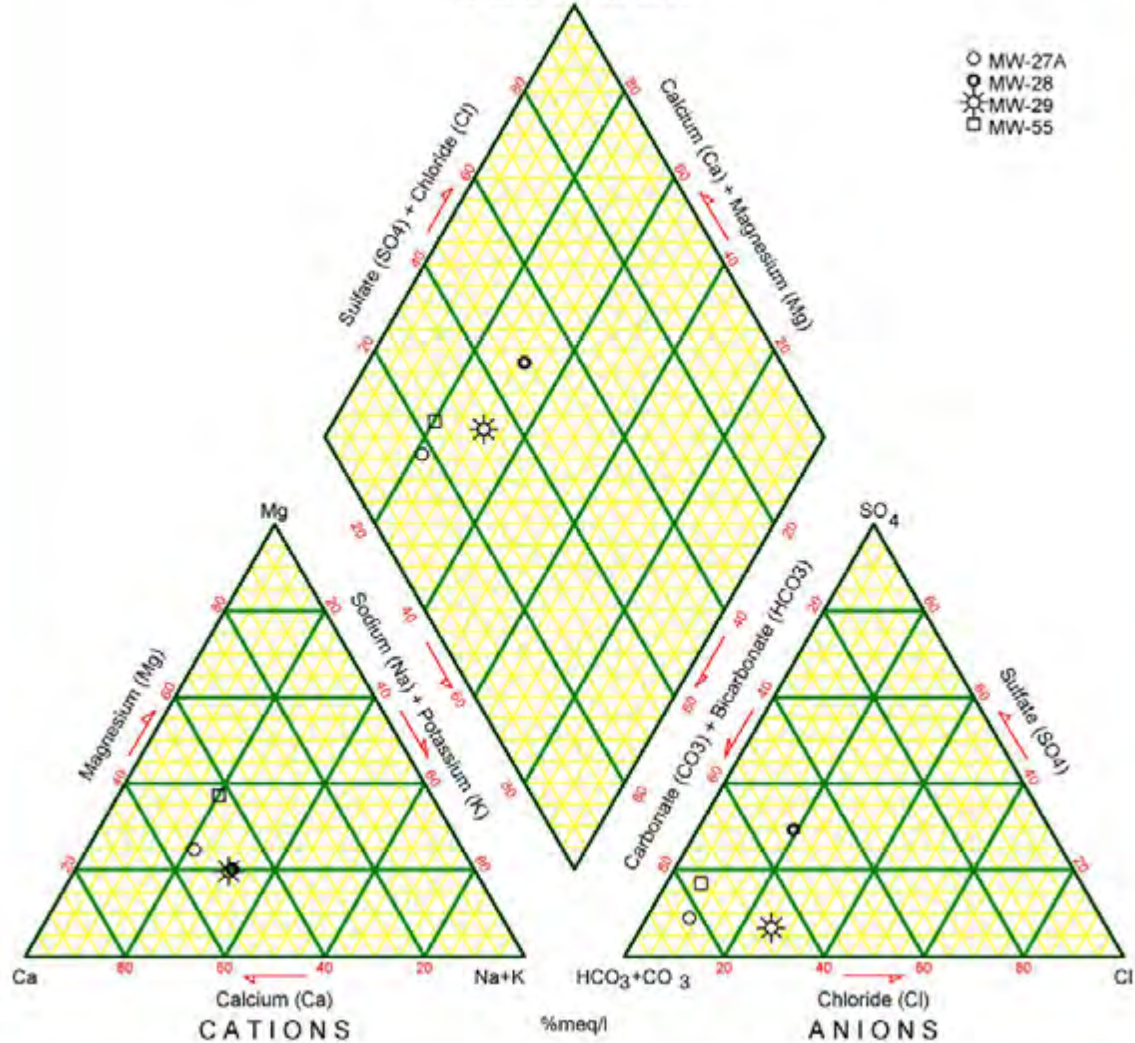
Site ID Date			North and West Perched Wells											
			MW-27A 4/6/15			MW-28 4/13/15			MW-29 4/14/15			MW-55 4/20/15		
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
Calcium	40.1	2	19.2	0.95808	53.3	7.8	0.39072	48.3	6.1	0.30289	49.3	12.0	0.5988	42.0
Magnesium	24.3	2	5.4	0.44106	24.5	2.0	0.16293	20.2	1.5	0.12096	19.7	6.4	0.52417	36.8
Potassium	39.1	1	3.4	0.08798	4.9	0.9	0.0233	2.9	0.5	0.01228	2.0	1.7	0.04297	3.0
Sodium	23.0	1	6.8	0.29535	16.4	5.3	0.2301	28.5	4.1	0.17747	28.9	5.5	0.24098	16.9
Iron	55.8	2	0.0	0.00036	0.0	0.0	0.00036	0.0	0.0	0.00036	0.1	0.3	0.00899	0.6
Manganese	54.9	2	0.1	0.00213	0.1	0.0	3.6E-05	0.0	0.0	3.6E-05	0.0	0.1	0.00535	0.4
Ammonia-N	14.0	1	0.2	0.01199	0.7	0.0	0.00071	0.1	0.0	0.00071	0.1	0.0	0.00298	0.2
Total Cations (meq/L)			1.8			0.8			0.6			1.4		
Anions														
Alkalinity, Total			79			23.5			21.8			57.8		
Carbonate	60.0	2	0.40301	0.01343	0.7	0.00093	3.1E-05	0.0	0.00262	8.7E-05	0.0	0.23344	0.00778	0.5
Bicarbonate	61.0	1	96.05	1.57433	81.4	28.67	0.4699	50.0	26.59	0.43585	58.9	70.04	1.14805	75.5
Chloride	35.5	1	5.9	0.16557	8.6	6.2	0.17544	18.7	6.0	0.16952	22.9	3.7	0.10465	6.9
Nitrate-N	14.0	1	0.1	0.00864	0.4	0.4	0.02513	2.7	1.3	0.0921	12.4	0.0	0.00171	0.1
Sulfate	96.1	2	8.2	0.17136	8.9	12.9	0.26859	28.6	2.1	0.04289	5.8	12.4	0.25818	17.0
Total Anions (meq/L)			1.9			0.9			0.7			1.5		
Total Ions (meq/L)			3.7			1.7			1.4			2.9		
Cation/Anion Ratio			0.93			0.86			0.83			0.94		
Percent Difference			-3.7			-7.5			-9.3			-3.3		
TRILINEAR DIAGRAM DATA														
sum (Ca, Mg, Na+K)			1.78			0.81			0.61			1.41		
Calcium			53.8			48.4			49.4			42.6		
Magnesium			24.7			20.2			19.7			37.3		
Sodium + Potassium			21.5			31.4			30.9			20.2		
						100.0			100.0					
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.92			0.91			0.65			1.52		
Sulfate			8.9			29.4			6.6			17.0		
Chloride			8.6			19.2			26.1			6.9		
Bicarbonate + Carbonate			82.5			51.4			67.2			76.1		

Table 8
Ion Balance Calculations
Cedar Hills Landfill Perched Zones GW Monitoring Wells

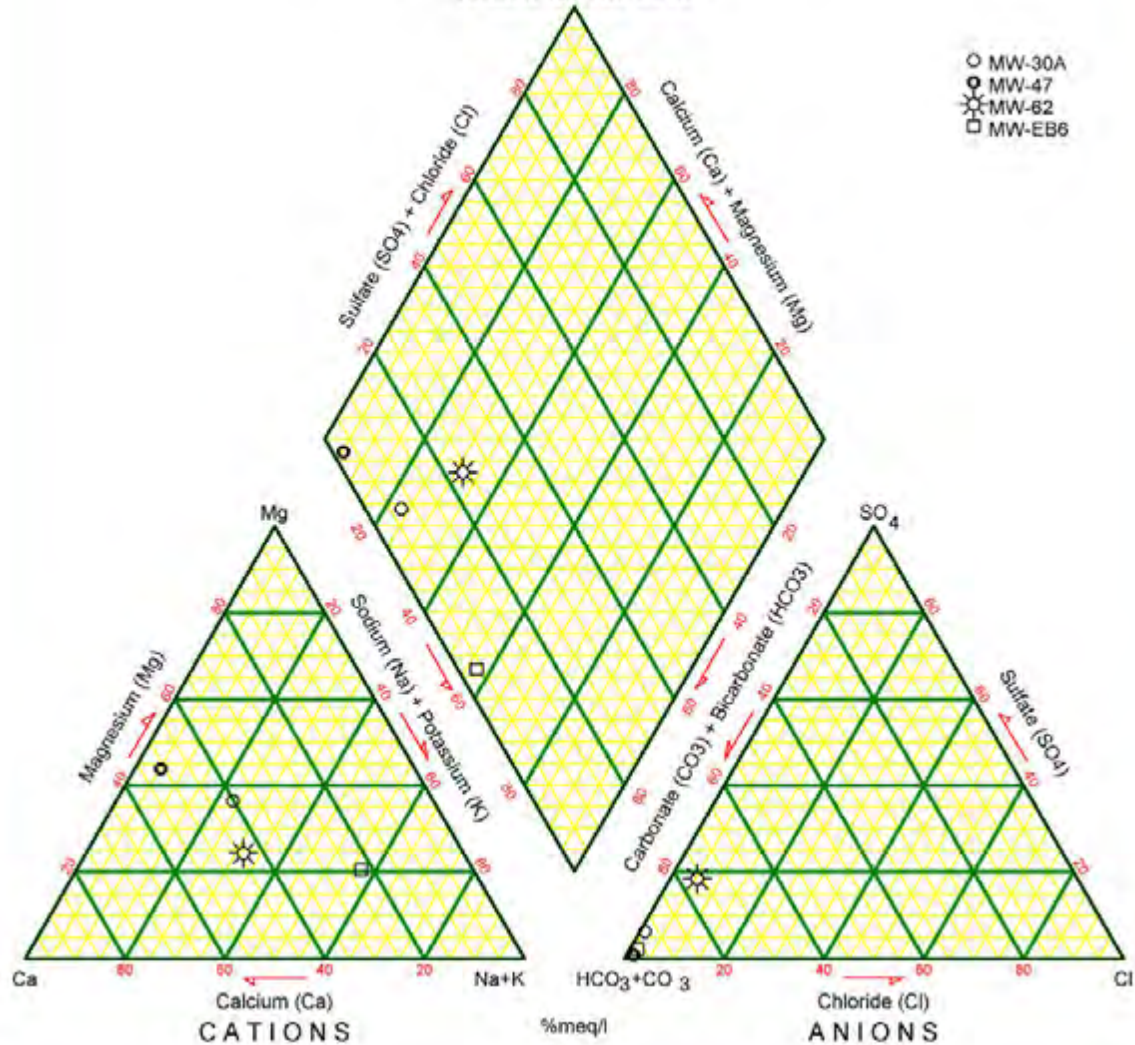
Data Collected from April 1, 2015 to June 30, 2015

Site ID Date	MW	n	East Perched Zone												SSWA		
			MW-30A 4/6/15			MW-47 4/24/15			MW-62 No Sample			MW-EB6 No Sample			MW-101 4/9/15		
Cations			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
Calcium	40.1	2	22.5	1.12275	40.1	152.0	7.58483	50.4	16.9	0.84331	44.1	5.3	0.26547	19.2	52.7	2.62974	41.2
Magnesium	24.3	2	12.4	1.02037	36.5	79.5	6.54186	43.5	5.7	0.46575	24.3	3.0	0.24275	17.5	36.1	2.97058	46.5
Potassium	39.1	1	1.6	0.04041	1.4	4.4	0.11356	0.8	0.9	0.02414	1.3	1.0	0.0266	1.9	2.6	0.0665	1.0
Sodium	23.0	1	14.1	0.61332	21.9	15.2	0.66116	4.4	13.3	0.57852	30.2	14.9	0.64811	46.8	14.7	0.63941	10.0
Iron	55.8	2	0.0	0.00036	0.0	1.0	0.03467	0.2	0.0	0.00047	0.0	2.6	0.09204	6.6	0.9	0.03338	0.5
Manganese	54.9	2	0.0	3.6E-05	0.0	2.7	0.09647	0.6	0.0	3.6E-05	0.0	0.1	0.00433	0.3	1.2	0.04369	0.7
Ammonia-N	14.0	1	0.0	0.00071	0.0	0.1	0.00596	0.0	0.0	0.00071	0.0	1.5	0.10638	7.7	0.0	0.00071	0.0
Total Cations (meq/L)				2.8			15.0			1.9			1.4			6.4	
Anions																	
Alkalinity, Total			118			679			68.2			63.6			262		
Carbonate	60.0	2	0.02046	0.00068	0.0	0.2759	0.0092	0.1	0.0179	0.0006	0.0	0.00606	0.0002	0.0	0.04543	0.00151	0.0
Bicarbonate	61.0	1	143.92	2.35896	72.9	827.82	13.5688	97.7	83.17	1.3632	67.7	77.58	1.27161	96.0	319.55	5.2377	97.1
Chloride	35.5	1	0.9	0.02581	0.8	7.1	0.19885	1.4	3.4	0.09618	4.8	0.7	0.02076	1.6	2.7	0.07672	1.4
Nitrate-N	14.0	1	9.7	0.69322	21.4	0.0	0.00079	0.0	3.1	0.22203	11.0	0.0	0.00186	0.1	0.0	0.00236	0.0
Sulfate	96.1	2	7.6	0.15865	4.9	5.4	0.11264	0.8	15.9	0.33105	16.4	1.4	0.02957	2.2	3.7	0.07641	1.4
Total Anions (meq/L)				3.2			13.9			2.0			1.3			5.4	
Total Ions (meq/L)				6.0			28.9			3.9			2.7			11.8	
Cation/Anion Ratio				0.86			1.08			0.95			1.05			1.18	
Percent Difference				-7.3			4.0			-2.6			2.3			8	
TRILINEAR DIAGRAM DATA																	
sum (Ca, Mg, Na+K)				2.80			14.90			1.91			1.18			6.31	
Calcium					40.1			50.9			44.11			22.44			41.70
Magnesium					36.5			43.9			24.36			20.52			47.11
Sodium + Potassium					23.4			5.2			31.52			57.04			11.19
											100.0			100.0			
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				2.54			13.89			1.79			1.32			5.39	
Sulfate					6.2			0.8			18.5			2.2			1.4
Chloride					1.0			1.4			5.4			1.6			1.4
Bicarbonate + Carbonate					92.7			97.8			76.1			96.2			97.2
											100.0			100.0			

Cedar Hills Regional Landfill
Figure 7. Perched Zone Wells North and West
Second Quarter 2015



Cedar Hills Regional Landfill
 Figure 8. East Perched Zone Wells
 Second Quarter 2015



Cedar Hills Regional Landfill
 Figure 9. South Solid Waste Area Perched Zone Well
 Second Quarter 2015

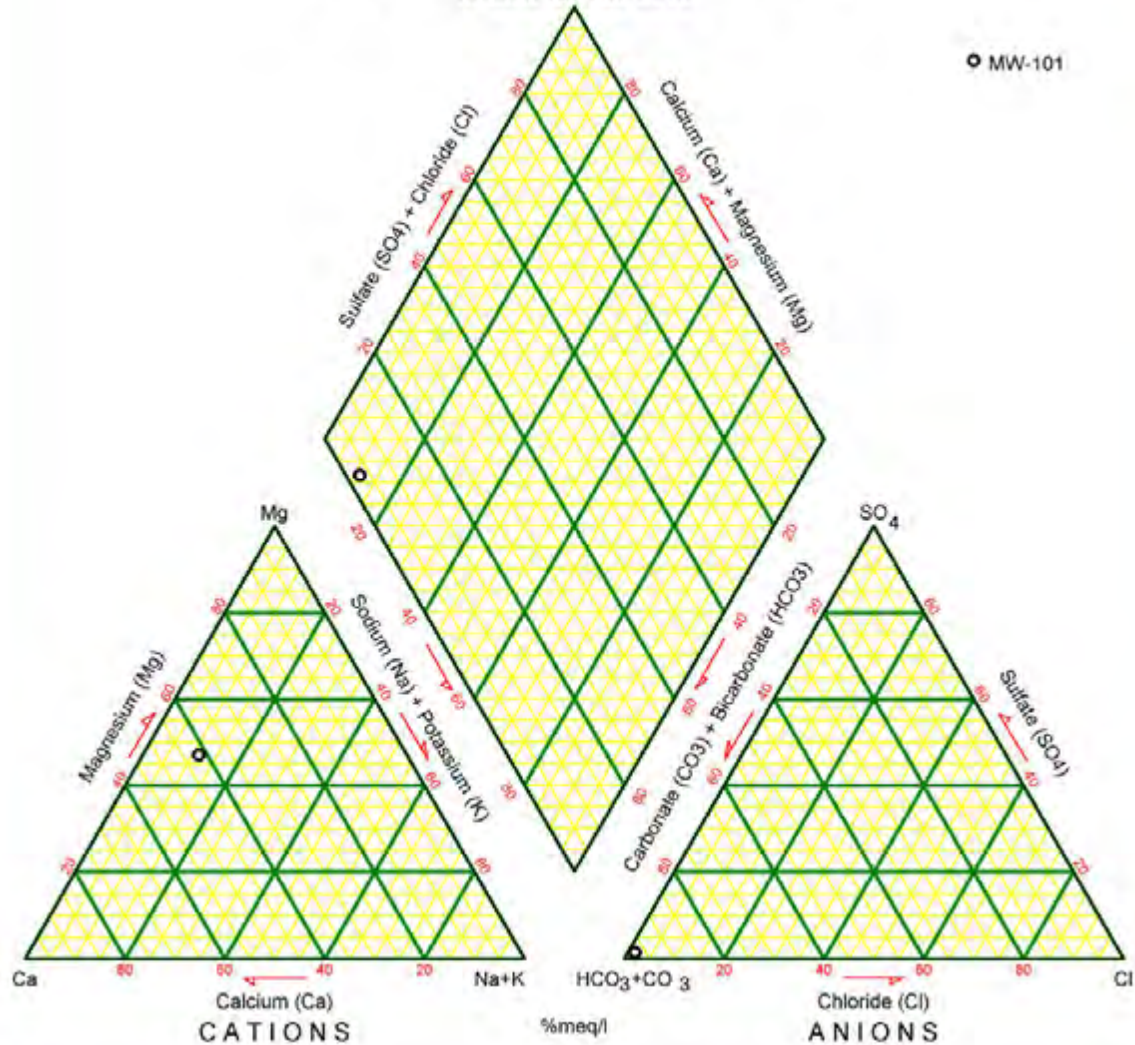


TABLE 9
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT EXCEEDANCES
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample Value	Limit Value
NO PERCHED ZONE PREDICTION LIMIT EXCEEDANCES THIS QUARTER					

TABLE 10
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN PERCHED ZONE WELLS
(Data Collected from April 1, 2015 to June 30, 2015)

Analyte	Site ID	Date	Sample ID	ug/L
North and West Perched Wells				
No Detections this Quarter				
East Perched Zone Wells				
Acetone	MW-EB6	6/8/2015	WB6-150608-	13.5
Carbon Disulfide	MW-EB6	6/8/2015	WB6-150608-	0.33 T
Chloroethane	MW-47	4/24/2015	W47-150424-	0.25 T
1,1-Dichloroethane	MW-30A	4/6/2015	W30A150406-	2.25
1,1-Dichloroethane	MW-47	4/24/2015	W47-150424-	0.678
1,1-Dichloroethane	MW-62	4/3/2015	W62-150403-	1.28
cis-1,2-Dichloroethene	MW-30A	4/6/2015	W30A150406-	2.79
cis-1,2-Dichloroethene	MW-47	4/24/2015	W47-150424-	2.76
cis-1,2-Dichloroethene	MW-62	4/3/2015	W62-150403-	3.15
Dichlorodifluoromethane	MW-47	4/24/2015	W47-150424-	3.77
M & P Xylene	MW-EB6	6/8/2015	WB6-150608-	0.25 T
Toluene	MW-EB6	4/6/2015	WB6-150406-	0.595
Toluene	MW-EB6	6/8/2015	WB6-150608-	0.403
Trichloroethene	MW-30A	4/6/2015	W30A150406-	1.2
Vinyl Chloride	MW-47	4/24/2015	W47-150424-	5.26
South Solid Waste Area Perched Wells				
Vinyl Chloride	MW-101	4/9/2015	W101150409-	0.224

See Data Qualifier List for Qualifier Information.

Table 11
Surface Water Monitoring Activities 2nd Quarter 2015

Station ID	Date	Planned Activity	Sample ID	Comment
SW-E1	4/21/15	Quarterly Characterization Sample	SE1-150421Q	
SW-E1	5/19/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-E1	6/22/15	Monthly Characterization Sample	SE1-150622M	No Flow, No Sample
SW-GS1	4/22/15	Quarterly Characterization Sample	SGS1150422Q	
SW-GS1	5/19/15	Monthly Characterization Sample	SGS1150519M	
SW-GS1	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-LP1	4/22/15	South Lagoon Inlet Characterization	SLP1150422P	
SW-LP1	5/21/15	South Lagoon Inlet Characterization	SLP1150521P	
SW-LP1	6/24/15	South Lagoon Inlet Characterization	NA ¹	No Flow, No Sample
SW-LP2	4/22/15	South Lagoon Inlet Characterization	SLP2150422P	
SW-LP2	5/21/15	South Lagoon Inlet Characterization	SLP2150521P	
SW-LP2	6/24/15	South Lagoon Inlet Characterization	SLP2150624P	
SW-LP3	4/22/15	South Lagoon Inlet Characterization	NA ¹	No Flow, No Sample
SW-LP3	5/21/15	South Lagoon Inlet Characterization	NA ¹	No Flow, No Sample
SW-LP3	6/24/15	South Lagoon Inlet Characterization	NA ¹	No Flow, No Sample
SW-MC	4/22/15	Quarterly Characterization Sample	SMC-150422Q	
SW-MC	5/21/15	Monthly Characterization Sample	SMC-150521M	
SW-MC	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-N1	4/21/15	Quarterly Characterization Sample	SN1-150421Q	
SW-N1	5/19/15	Monthly Characterization Sample	SN1-150519M	
SW-N1	6/22/15	Monthly Characterization Sample	SN1-150622M	
SW-N4	4/21/15	Quarterly Characterization Sample	SN4-150421Q	
SW-N4	4/21/15	QA/QC Sample	SN4-150421D	Field Duplicate
SW-N4	5/19/15	Monthly Characterization Sample	SN4-150519M	
SW-N4	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-S1	4/22/15	Quarterly Characterization Sample	SS1-150422Q	
SW-S1	5/19/15	Monthly Characterization Sample	SS1-150519M	
SW-S1	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-S2	4/22/15	Quarterly Characterization Sample	SS2-150422Q	
SW-S2	5/19/15	Monthly Characterization Sample	SS2-150519M	
SW-S2	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-S3	4/22/15	Quarterly Characterization Sample	NA ¹	No Flow, No Sample
SW-S3	5/19/15	Quarterly Characterization Sample	NA ¹	No Flow, No Sample
SW-SL3	4/22/15	NPDES Permit Sample	SSL3150422P	
SW-SL3	4/22/15	Quarterly Characterization Sample	SSL3150422Q	
SW-SL3	5/19/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-SL3	5/21/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-SL3	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-SL3	6/24/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-TD1	6/3/15	Area 5 Top Deck Monitoring	NA ¹	No Flow, No Sample
SW-TD2	6/3/15	Area 5 Top Deck Monitoring	NA ¹	No Flow, No Sample
SW-TD4	6/3/15	Area 5 Top Deck Monitoring	NA ¹	No Flow, No Sample
SW-TD6	6/3/15	Area 5 Top Deck Monitoring	NA ¹	No Flow, No Sample
SW-V	4/21/15	Quarterly Characterization Sample	NA ¹	No Sample, Unsafe Access

Table 11
Surface Water Monitoring Activities 2nd Quarter 2015

Station ID	Date	Planned Activity	Sample ID	Comment
SW-V	5/19/15	Monthly Characterization Sample	NA ¹	No Sample, Unsafe Access
SW-V	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-W	4/22/15	Quarterly Characterization Sample	SW--150422Q	
SW-W	5/21/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-W	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
SW-W1	4/21/15	Quarterly Characterization Sample	SW1-1504212Q	
SW-W1	5/19/15	Monthly Characterization Sample	SW1-150519M	
SW-W1	6/22/15	Monthly Characterization Sample	SW1-150622M	
SW-W2	4/22/15	Quarterly Characterization Sample	SW2-150422Q	
SW-W2	4/22/15	QA/QC Sample	SW2-150422D	
SW-W2	5/19/15	Monthly Characterization Sample	SW2-150519M	
SW-W2	6/22/15	Monthly Characterization Sample	NA ¹	No Flow, No Sample
Staff Gages	4/21/15	Monthly Stream Gage Levels	NA	
Staff Gages	5/19/15	Monthly Stream Gage Levels	NA	
Staff Gages	6/19/15	Monthly Stream Gage Levels	NA	

¹ No sample ID assigned, No sample collected.

TABLE 12
CEDAR HILLS LANDFILL
SUMMARY OF ISGP* STORMWATER PERMIT EXCEEDANCES
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Sampling Location	Date	Value	Regulatory Limit	Type
NO EXCEEDANCES THIS QUARTER						

*ISGP - Industrial General Stormwater Permit

TABLE 13
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from April 1, 2015 to June 30, 2015)

Analyte	Site ID	Date	Sample ID	ug/L
Methylene Chloride	FIELD BLANK	4/9/2015	W90-150409F	0.402
Chloromethane	VOA TRIP BLANK	5/14/2015	VTRP150514C	0.582 B
	VOA TRIP BLANK	5/13/2015	VTRP150514T	1.01 BG
	VOA TRIP BLANK	5/29/2015	VTRP150601B	0.509
	VOA TRIP BLANK	6/18/2015	VTRP150619B	0.26 GT
	VOA TRIP BLANK	6/18/2015	VTRP150619C	0.35 GT
Methylene Chloride	VOA TRIP BLANK	4/17/2015	VTRP150420B	0.737
	VOA TRIP BLANK	4/22/2015	VTRP150424B	0.684
	VOA TRIP BLANK	04/22/15	VTRP150424C	0.61

See Data Qualifier List for Qualifier Information.

Table 14
Groundwater Quality Criteria

		Ground Water Quality Criteria	
Analyte	CAS No.	Criterion*	
I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES			
A. Primary Contaminants			
Barium	7440-39-3	1.0	mg/L
Cadmium	7440-43-9	0.005	mg/L
Chromium	7440-47-3	0.05	mg/L
Lead	7439-92-1	0.015	mg/L
Mercury	7439-97-6	0.002	mg/L
Selenium	7782-49-2	0.01	mg/L
Silver	7440-22-4	0.05	mg/L
Fluoride	16984-48-8	4.0	mg/L
Nitrate	14797-55-8	10.0	mg/L
Endrin	72-20-8	0.2	ug/L
Methoxychlor	72-43-5	40	ug/L
1,1,1-Trichloroethane	71-55-6	200	ug/L
2,4-D	94-75-7	70	ug/L
2,4,5-TP	93-72-1	100	ug/L
Total Coliforms		1/100	mL
B. Secondary Standards			
Copper	7440-50-8	1.0	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5.0	mg/L
Chloride	16887-00-6	250	mg/L
Sulfate	14808-79-8	250	mg/L
Total Dissolved Solids		500	mg/L
Foaming Agents		0.5	mg/L
pH	12408-02-5	6.5-8.5	units
Corrosivity		non-corrosive	
Color		15	units
Odor-Threshold		3	units
C. Radionuclides and Radioactivity			
Gross Alpha particle activity		15	pCi/L
Gross Beta particle activity		50	pCi/L
Tritium	10028-17-8	20,000	pCi/L
Strontium	7440-24-6	8	pCi/L
Radium 226 & Radium 228		5	pCi/L
Radium 226	13982-63-3	3	pCi/L
II. CARCINOGENS			
1,1-Dichloroethane	75-34-3	1	ug/L
1,2-Dichloroethane	107-06-2	0.5	ug/L
1,2-Dichloropropane	78-87-5	0.6	ug/L
1,2-Dimethylhydrazine	540-73-8	60	ug/L
1,2-Diphenylhydrazine	122-66-7	0.09	ug/L
1,3-Dichloropropene tot.	542-75-6	0.2	ug/L
1,4-Dichlorobenzene	106-46-7	4	ug/L
1,4-Dioxane	123-91-1	7	ug/L
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4.0	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluenediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2.0	ug/L
2-Methylaniline	95-53-4	0.2	ug/L
2-Methylaniline hydrochloride	636-21-5	0.5	ug/L
3,3'-Dichlorobenzidine	91-94-1	0.2	ug/L
3,3'-Dimethoxybenzidine	119-90-4	6.0	ug/L
3,3'-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2.0	ug/L
4-Chloro-2-methyl aniline	95-69-2	0.1	ug/L
4-Chloro-2-methyl aniline hydrochloride	3165-93-3	0.2	ug/L
Acrylamide	79-06-1	0.02	ug/L
Acrylonitrile	107-13-1	0.07	ug/L
Aldrin	309-00-2	0.005	ug/L
Aniline	62-53-3	14	ug/L
Aramite	140-57-8	3	ug/L
Arsenic	7440-38-2	0.00005	mg/L
Azobenzene	103-33-3	0.7	ug/L
Benzene	71-43-2	1	ug/L

Table 14
Groundwater Quality Criteria

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
Benzidine	92-87-5	0.0004	ug/L
Benzo(a)pyrene	50-32-8	0.008	ug/L
Benzotrachloride	98-07-7	0.007	ug/L
Benzyl chloride	100-44-7	0.5	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	6	ug/L
Bis(chloroethyl)ether	111-44-4	0.07	ug/L
Bis(chloromethyl)ether	542-88-1	0.0004	ug/L
Bromodichloromethane	75-27-4	0.3	ug/L
Bromoform	75-25-2	5	ug/L
Carbazole	86-74-8	5	ug/L
Carbon Tetrachloride	56-23-5	0.3	ug/L
Chlordane	5103-71-9	0.06	ug/L
Chlorodibromomethane	124-48-1	0.5	ug/L
Chloroform	67-66-3	7	ug/L
Chlorthalonil	1897-45-6	30	ug/L
DDT (includes DDE and DDD)	50-29-3, 72-55-9, 72-54-8	0.3	ug/L
Diallate	2303-16-4	1	ug/L
Dichlorovos	62-73-7	0.3	ug/L
Dieldrin	60-57-1	0.005	ug/L
Direct Black 38	1937-37-7	0.009	ug/L
Direct Blue 6	2602-46-2	0.009	ug/L
Direct Brown 95	16071-86-6	0.009	ug/L
Epichlorohydrin	106-89-8	8	ug/L
Ethyl acrylate	140-88-5	2	ug/L
Ethylene dibromide	106-93-4	0.001	ug/L
Ethylene thiourea	96-45-7	2	ug/L
Folpet	133-07-3	20	ug/L
Furazolidone	67-45-8	0.02	ug/L
Furium	531-82-8	0.002	ug/L
Furmecyclox	60568-05-0	3	ug/L
Heptachlor	76-44-8	0.02	ug/L
Heptachlor epoxide	1024-57-3	0.009	ug/L
Hexachlorobenzene	118-74-1	0.05	ug/L
Hexachlorocyclohexane (alpha)	319-84-6	0.001	ug/L
Hexachlorocyclohexane (technical)	608-73-1	0.05	ug/L
Hexachlorodibenzo-p-dioxin, mix	34465-46-8	0.00001	ug/L
Hydrazine/hydrazine sulfate	302-01-2/10034-93-2	0.03	ug/L
Lindane	58-89-9	0.06	ug/L
Methylene Chloride	75-09-2	5	ug/L
Mirex	2385-85-5	0.05	ug/L
Nitrofurazone	59-87-0	0.06	ug/L
N-Nitrosodiethanolamine	1116-54-7	0.03	ug/L
N-Nitrosodiethylamine	55-18-5	0.0005	ug/L
N-Nitrosodimethylamine	62-75-9	0.002	ug/L
N-Nitroso-di-n-butylamine	924-16-3	0.02	ug/L
N-Nitroso-di-n-propylamine	621-64-7	0.01	ug/L
N-Nitrosodiphenylamine	86-30-6	17.0	ug/L
N-Nitroso-N-methylethylamine	10595-95-6	0.004	ug/L
N-Nitrosopyrrolidine	930-55-2	0.04	ug/L
o-Chloronitrobenzene	88-73-3	3	ug/L
o-Phenylenediamine	95-54-5	0.005	ug/L
o-Toluidine	95-53-4	0.2	ug/L
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.004	ug/L
PAHs [Benzo(a)pyrene]		0.01	ug/L
PBBs	59536-65-1	0.01	ug/L
PCBs c	27323-18-8	0.01	ug/L
p-Chloronitrobenzene	100-00-5	5	ug/L
Propylene oxide	75-56-9]	0.01	ug/L
Tetrachloroethylene	127-18-4	0.8	ug/L
Toxaphene c	8001-35-2	0.08	ug/L
Trichloroethylene (TCE)	79-01-6	3	ug/L
Trimethyl phosphate	512-56-1	2.0	ug/L
Vinyl chloride	75-01-4	0.02	ug/L
NOTES: pCi/L=picocuries per liter mg/L=milligrams per liter ug/L=micrograms per liter *Ground Water Quality Criteria=173-200 WAC Water Quality Standards for Ground Waters of the State of Washington			

TABLE 15
CEDAR HILLS LANDFILL
INDUSTRIAL STORMWATER GENERAL PERMIT
BENCHMARKS and EFFLUENT LIMITS

Parameter	Units	Minimum Sampling Frequency	Benchmark	Effluent Limit	
				Monthly Average	Daily Maximum
pH	Std. Units	Quarterly	5.0 to 9.0	6.0 to 9.0	
Turbidity	NTU	Quarterly	25	--	--
Oil Sheen	Yes/No	Quarterly	None Visible	--	--
Copper, Total	ug/L	Quarterly	14	--	--
Zinc, Total	ug/L	Quarterly	117	110	200
BOD	mg/L	Quarterly	--	37	140
TSS	mg/L	Quarterly	--	27	88
Ammonia-N	mg/L	Quarterly	--	4.9	10
Alpha Terpineol	ug/L	Quarterly	--	16	33
Benzoic Acid	ug/L	Quarterly	--	71	120
4-Methylphenol*	ug/L	Quarterly	--	14	25
Phenol	ug/L	Quarterly	--	15	26

* Analytical result reported as the total of 3-Methylphenol (CAS RN 108-39-4) and 4-Methylphenol (CAS RN 106-44-5)

TABLE 16
CEDAR HILLS REGIONAL LANDFILL
LABORATORY DATA REVIEW - SUSPECT DATA ALL MATRICES
(Data Collected from April 1, 2015 to June 30, 2015)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
Chloromethane	ug/L	MW-75	6/19/2015	W75-150619-	0.496 G	Lab Contamination
		MW-87	6/19/2015	W87-150619-	0.23 GT	Lab Contamination
		MW-99	6/19/2015	W99-150619-	1.3 G	Lab Contamination

See Data Qualifier List for Qualifier Information.

APPENDIX A

Potentiometric Surface Maps and Aquifer Flow Calculations



King County

Water and Land Resources Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 600

Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192

TTY Relay: 711

Memorandum

July 31, 2015

TO: Tom Theno, Engineer II, Engineering Services Section, Solid Waste Division,
Department of Natural Resources and Parks (DNRP)

FM: Sevin Bilir, Environmental Scientist III, Science and Technical Support Section,
Water and Land Resources Division, DNRP

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations
Second Quarter 2015 Results
Cedar Hills Landfill, King County, Washington
Project No. 1033379 – Task 02.14.137.20

The King County Water and Land Resources Division (KCWLR Division) submits this memorandum report on groundwater conditions during the second quarter of 2015 for the Cedar Hills Landfill (landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (KCWLR Division, 2013). King County Solid Waste Division (KCSWD) personnel measured groundwater elevations at the landfill on May 1, 2015. These measurements were received by KCWLR Division on July 2, 2015 and were used to:

1. Evaluate the potentiometric groundwater surface elevation for the regional aquifer;
2. Determine the groundwater flow direction and horizontal gradient for the regional aquifer; and
3. Calculate the groundwater velocity of the regional aquifer.

There have been no significant changes in the interpreted groundwater conditions since the report submitted for the first quarter of the 2015 monitoring event.

Groundwater Elevation Data

KCSWD attempted groundwater level measurements at 44 monitoring wells during the second quarter of 2015. These wells were completed in the regional aquifer as referred to in

Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010).

Table 1 lists the well identifications, locations, well details, measured groundwater levels and calculated groundwater elevations for the regional aquifer. Wells with screened intervals within ten feet of the water table were used for potentiometric surface mapping purposes. A total of 26 wells with water levels within ten feet of the top of screen were selected.

Figure 1 shows well locations, groundwater elevations at the 26 selected wells, groundwater potentiometric surface contours, and interpreted groundwater flow direction in the regional aquifer for the May 1, 2015 measurement event.

Direction of Groundwater Flow

Figure 1 shows interpreted groundwater potentiometric surface contours and groundwater flow directions in the regional aquifer, based on the May 1, 2015 measurements. Groundwater elevations indicate that groundwater in the regional aquifer generally flowed north beneath the southern and central portions of the landfill with minor components of flow to the north-northwest and north-northeast. At the northern end of the landfill, groundwater generally flowed to the north and north-northeast.

Groundwater Parameters

Horizontal groundwater velocity was calculated using the following formula:

$$\text{where: } v = \frac{1}{n_{eff}} K \frac{\Delta H}{\Delta L}$$

v = Groundwater velocity [L/t]

n_{eff} = Effective porosity [dimensionless]

K = Hydraulic conductivity [L/t]

$\frac{\Delta H}{\Delta L}$ = Hydraulic gradient [L/L]

Horizontal groundwater velocity was calculated for the regional aquifer below the landfill. Horizontal groundwater velocity was calculated for the southern, central, and northern portions of the regional aquifer, based on spatial differences in aquifer parameters and hydraulic gradients. The hydraulic conductivity and effective porosity values were based on the range referred to in the *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010)*.

Table 2 presents a summary of the groundwater parameters used to calculate a groundwater velocity from the second quarter 2015 data. The hydraulic gradient was greatest under the southern portion of the landfill and smallest under the northern portion. On May 1, 2015, average horizontal groundwater velocity within the regional aquifer ranged from 0.014 feet per day (ft/d) under the southern portion of the landfill to 2.1 ft/d under the central portion of the landfill.

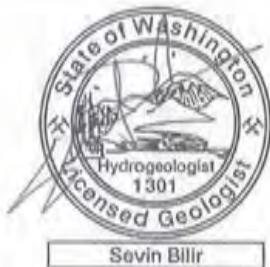
References

Aspect Consulting (Aspect). 2010. *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill*. Unpublished work. April 30.

King County Water & Land Resources Division (KCWLR Division). 2013. *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations*. Unpublished.

Thank you for the opportunity to provide hydrogeologic services to the KCSWD. If you have any questions, please feel free to contact me at 206-477-4646 or sevin.bilir@kingcounty.gov.

Sincerely,



Sevin Bilir, WA LHG
Environmental Scientist IV
King County Water and Land Resources Division

Enclosures:

- Table 1: Groundwater Elevations - Second Quarter 2015
- Table 2: Groundwater Parameters - Second Quarter 2015
- Figure 1: Groundwater Potentiometric Surface Map – Second Quarter 2015 – Regional Aquifer

Table 1: Groundwater Elevations – Second Quarter 2015

Cedar Hills Regional Landfill
King County, Washington

Regional Aquifer Unit	Well Identification	X (ft)	Y (ft)	Top of Casing Elevation (ft MSL)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	May 1, 2015	
							Measured Depth to Water (ft)	Groundwater Elevations (ft MSL)
Wells with water levels within 10 feet of the top of screen	MW-60	1701154.47	167873.20	567.15	334.81	325.81	224.95	342.2
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.41	331.14
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.11	293.17
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	220.33	296.1
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.24	314.83
	MW-69	1698061.86	172400.20	653.69	293.57	279.97	355.38	298.31
	MW-70	1698412.97	168699.89	530.57	322.75	309.05	204.48	326.09
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	362.81	309.06
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	190.55	295.15
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	239.73	291.53
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	132.68	359.03
	MW-77	1700007.63	168999.71	552.67	320.47	310.97	226.09	326.58
	MW-78	1698881.94	169027.58	537.35	322.34	309.84	211.86	325.49
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.94	309.72
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	120.55	354.3
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	143.18	353.63
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	235.75	295.05
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	245.19	286.57
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	248.76	287.28
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	247.84	289.47
Wells with water levels greater than 10 feet above the top of screen	MW-88	1701807.87	174303.06	513.68	281.52	272.22	228.49	285.19
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.41	323.74
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	138.95	356.56
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.17	320.37
	MW-100	1700791.72	169610.46	620.32	319.06	309.06	297.63	322.69
	MW-106	1702536.99	173461.69	475.47	280.04	270.04	189.78	285.69
	MW-21	1697901.86	173876.38	420.66	263.22	255.22	124.9	295.76
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	231.71	285.38
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.04	331.95
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	262.53	284.53
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	277.86	302.57
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	123.97	356.36
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	98.41	358.23
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	147.91	331.36
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	122.17	334.96
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	207.86	337.97
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	244.95	287.45
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.8	291.61
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	231.13	281.69
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	220.45	281.77
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	246.22	285.8
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.02	293.62
	NPV-1	1701906.96	171138.99	646.33	299.87	284.87	332.94	313.39
	NPV-3	1701922.88	170663.28	645.81	284.87	276.87	331.15	314.66

Notes

1. Water level measurements made by KCSWD personnel.
2. Reference datum for XY coordinates is the North American Datum of 1927 (NAD27).
3. Elevations reported in feet above Mean Sea Level based on the National Geodetic Vertical Datum, 1929.

Table 2: Groundwater Parameters – Second Quarter 2015
Cedar Hills Regional Landfill
King County, Washington

Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity (K)		Horizontal Hydraulic Gradient (DH/DL)	Effective Porosity (n_{eff})	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/ft)		(ft/d)	
Northern	Minimum	2.10E-03	6	0.0057	0.143	NNE, NNW
	Maximum	4.20E-02	120	0.0057	2.85	
	Mean	2.10E-02	60	0.0057	1.43	
Central	Minimum	2.10E-03	6	0.0085	0.21	N, NNW
	Maximum	4.20E-02	120	0.0085	4.2	
	Mean	2.10E-02	60	0.0085	2.1	
Southern	Minimum	6.40E-06	0.018	0.0205	0.0014	N, NNE, NNW
	Maximum	6.40E-04	1.8	0.0205	0.14	
	Mean	6.40E-05	0.18	0.0205	0.014	

Notes

1. Horizontal hydraulic conductivity values and effective porosity values from *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010)*.
2. Hydraulic gradients measured from the potentiometric surface map shown on Figure 1.
3. Mean hydraulic conductivity values are the geometric mean of the high and low values.
4. NNE, north-northeast; NNW, north-northwest; NE, northeast; N, north

CH_2Q2015.dwg

APPENDIX B

Field and Analytical Test Results

Groundwater Analytical Data

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Elevation Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-21	4/1/2015	420.66	124.9	295.76	
MW-21	4/28/2015	420.66	125.45	295.21	
MW-22	4/1/2015	517.09	231.71	285.38	
MW-24	4/1/2015	475.99	144.04	331.95	
MW-24	4/13/2015	475.99	143.73	332.26	
MW-25	4/1/2015	474.41	5.71	468.70	
MW-27A	4/1/2015	584.23	53.82	530.41	
MW-27A	4/6/2015	584.23	53.22	531.01	
MW-28	4/1/2015	527.75	22.42	505.33	
MW-28	4/13/2015	527.75	22.47	505.28	
MW-29	4/1/2015	532.92	10.46	522.46	
MW-29	4/14/2015	532.92	11.21	521.71	
MW-30A	4/1/2015	568.43	28.95	539.48	
MW-30A	4/6/2015	568.43	28.79	539.64	
MW-41D	4/1/2015	462.32	25.28	437.04	
MW-41S	4/1/2015	462.44	4.2	458.24	
MW-43	4/1/2015	547.06	262.53	284.53	
MW-43	6/1/2015	547.06	262.58	284.48	
MW-45	4/1/2015	488.4	14	474.40	
MW-47	4/1/2015	634.6	15.01	619.59	
MW-47	4/24/2015	634.6	15.56	619.04	
MW-48	4/1/2015	594.49	43.63	550.86	
MW-50	4/1/2015	637.02	30.06	606.96	
MW-54	4/1/2015	580.43	277.86	302.57	
MW-55	4/1/2015	652.29	27.6	624.69	
MW-55	4/20/2015	652.29	27.55	624.74	
MW-56	4/1/2015	480.33	123.97	356.36	
MW-56	4/14/2015	480.33	123.99	356.34	
MW-57	4/1/2015	456.64	98.41	358.23	
MW-57	4/2/2015	456.64	99.14	357.50	
MW-58A	4/1/2015	479.27	147.91	331.36	
MW-59	4/1/2015	457.13	122.17	334.96	
MW-59	4/17/2015	457.13	122.28	334.85	
MW-60	4/1/2015	567.15	224.95	342.20	
MW-60	4/7/2015	567.15	223.51	343.64	
MW-62	4/1/2015	556.21	49.72	506.49	
MW-62	4/3/2015	556.21	50	506.21	
MW-63	4/1/2015	515.88	11.55	504.33	
MW-64	4/1/2015	596.55	265.41	331.14	
MW-64	4/28/2015	596.55	265.14	331.41	
MW-65	4/1/2015	545.83	207.86	337.97	
MW-65	4/8/2015	545.83	207.64	338.19	
MW-66	4/1/2015	531.28	238.11	293.17	
MW-66	4/2/2015	531.28	238.11	293.17	
MW-67	4/1/2015	516.43	220.33	296.10	

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Elevation Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-67	4/24/2015	516.43	220.72	295.71	
MW-68	4/1/2015	647.07	332.24	314.83	
MW-68	4/27/2015	647.07	332	315.07	
MW-69	4/1/2015	653.69	355.38	298.31	
MW-69	4/16/2015	653.69	356.41	297.28	
MW-70	4/1/2015	530.57	204.48	326.09	
MW-72	4/1/2015	671.87	362.81	309.06	
MW-72	4/29/2015	671.87	361.3	310.57	
MW-73	4/1/2015	485.7	190.55	295.15	
MW-73	4/13/2015	485.7	190.61	295.09	
MW-74	4/1/2015	531.26	239.73	291.53	
MW-74	4/20/2015	531.26	239.38	291.88	
MW-74	5/8/2015	531.26	239.45	291.81	
MW-74	6/19/2015	531.26	239.7	291.56	
MW-75	4/1/2015	532.4	244.95	287.45	
MW-75	4/20/2015	532.4	245.6	286.8	
MW-75	5/8/2015	532.4	246.66	285.74	
MW-75	6/19/2015	532.4	245.32	287.08	
MW-76	4/1/2015	491.71	132.68	359.03	
MW-76	4/7/2015	491.71	132.59	359.12	
MW-77	4/1/2015	552.67	226.09	326.58	
MW-78	4/1/2015	537.35	211.86	325.49	
MW-79	4/1/2015	459.17	37.53	421.64	
MW-80	4/1/2015	530.41	238.8	291.61	
MW-80	4/14/2015	530.41	238.8	291.61	
MW-81	4/1/2015	493.66	183.94	309.72	
MW-81	4/14/2015	493.66	184.04	309.62	
MW-82	4/1/2015	474.85	120.55	354.30	
MW-82	4/14/2015	474.85	120.45	354.40	
MW-83	4/1/2015	496.81	143.18	353.63	
MW-83	4/7/2015	496.81	143	353.81	
MW-84	4/1/2015	530.8	235.75	295.05	
MW-84	4/2/2015	530.8	235.75	295.05	
MW-84	6/1/2015	530.8	235.47	295.33	
MW-85	4/1/2015	531.76	245.19	286.57	
MW-85	4/16/2015	531.76	245.32	286.44	
MW-86	4/1/2015	536.04	248.76	287.28	
MW-86	4/27/2015	536.04	248.85	287.19	
MW-87	4/1/2015	537.31	247.84	289.47	
MW-87	4/20/2015	537.31	247.65	289.66	
MW-87	5/14/2015	537.31	247.7	289.61	
MW-87	6/19/2015	537.31	247.87	289.44	
MW-88	4/1/2015	513.68	228.49	285.19	
MW-88	4/24/2015	513.68	226.19	287.49	
MW-89	4/1/2015	512.82	231.13	281.69	

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Elevation Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-89	4/24/2015	512.82	228.85	283.97	
MW-90	4/1/2015	502.22	220.45	281.77	
MW-90	4/9/2015	502.22	220.43	281.79	
MW-91	4/1/2015	532.02	246.22	285.80	
MW-91	4/13/2015	532.02	246.02	286.00	
MW-93	4/1/2015	632.15	308.41	323.74	
MW-93	4/28/2015	632.15	307.97	324.18	
MW-94	4/1/2015	495.51	138.95	356.56	
MW-94	4/2/2015	495.51	139.04	356.47	
MW-95	4/1/2015	571.54	251.17	320.37	
MW-95	4/6/2015	571.54	250.87	320.67	
MW-96	4/1/2015	547.74	99.13	448.61	
MW-97	4/1/2015	564.54	112.89	451.65	
MW-98	4/1/2015	503.73	15.43	488.30	
MW-99	4/1/2015	493.64	200.02	293.62	
MW-99	4/20/2015	493.64	199.78	293.86	
MW-99	5/14/2015	493.64	199.91	293.73	
MW-99	6/19/2015	493.64	200.28	293.36	
MW-100	4/1/2015	620.32	297.63	322.69	
MW-100	4/3/2015	620.32	297.47	322.85	
MW-101	4/1/2015	474.72	32.72	442.00	
MW-101	4/9/2015	474.72	32.82	441.90	
MW-102	4/1/2015	552.48	45.04	507.44	
MW-103	4/1/2015	639.08	11.32	627.76	
MW-104	4/1/2015	629.68	22.2	607.48	
MW-105	4/1/2015	521.23	19.29	501.94	
MW-106	4/1/2015	475.47	189.78	285.69	
MW-EB6	4/1/2015	589.61	25.11	564.50	
MW-EB6	4/6/2015	589.61	24.9	564.71	
WS-NPW-1	4/1/2015	646.33	332.94	313.39	
WS-NPW-3	4/1/2015	645.81	331.15	314.66	

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Field Parameters

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature	Purge Volume
			(std. Units)	(umho/cm)	(°C)	(gal)
MW-21	4/28/2015	W21-150428-	7.72	120	9.7	8
MW-24	4/13/2015	W24-150413-	7.28	165	9.6	8.3
MW-27A	4/6/2015	W27A150406-	7.93	150	9.7	9.6
MW-28	4/13/2015	W28-150413-	5.82	85	10.6	16
MW-29	4/14/2015	W29-150414-	6.3	68	11	17.5
MW-30A	4/6/2015	W30A150406-	6.46	240	11.7	4
MW-43	6/1/2015	W43-150601-	7.4	155	9.7	12.8
MW-47	4/24/2015	W47-150424-	6.83	670	11	23
MW-55	4/20/2015	W55-150420-	7.83	130	10.9	10
MW-56	4/14/2015	W56-150414-	7.02	130	9.6	28
MW-57	4/2/2015	W57-150402-	6.8	185	10.2	21.9
MW-59	4/17/2015	W59-150417-	7.12	150	10.7	38
MW-60	4/7/2015	W60-150407-	7	145	9.6	16.3
MW-62	4/3/2015	W62-150403-	6.64	165	10	2.5
MW-64	4/28/2015	W64-150428-	7.02	215	11.8	9
MW-65	4/8/2015	W65-150408-	7	145	10.3	23
MW-66	4/2/2015	W66-150402-	7.18	220	9.6	9.6
MW-67	4/24/2015	W67-150424-	7.07	295	10	9
MW-68	4/27/2015	W68-150427-	7.11	240	10.6	17.6
MW-69	4/16/2015	W69-150416-	7.58	245	8.8	10
MW-72	4/29/2015	W72-150429-	7.06	280	11	13
MW-73	4/13/2015	W73-150413-	6.97	120	9.3	8.5
MW-74	4/20/2015	W74R150420-	6.99	380	9.9	5.6
MW-74	5/8/2015	W74R150508-	7.02	390	10	7
MW-74	6/19/2015	W74R150619-	7.08	440	10.2	6
MW-75	4/20/2015	W75-150420-	7.09	250	10	11.5
MW-75	5/8/2015	W75-150508-	7.09	250	9.8	14
MW-75	6/19/2015	W75-150619-	7.15	275	10.5	11.5
MW-76	4/7/2015	W76-150407-	6.55	210	9.7	6
MW-80	4/14/2015	W80-150414-	7.31	260	9.3	7.6
MW-81	4/14/2015	W81-150414-	7.39	125	10	4.8
MW-82	4/14/2015	W82-150414-	6.86	210	9.4	4.5
MW-83	4/7/2015	W83-150407-	6.93	285	10.2	4.5
MW-84	6/1/2015	W84-150601-	7.05	145	9.9	7.2
MW-85	4/16/2015	W85-150416-	7.16	255	9.3	7.5
MW-85	4/16/2015	W85-150416D	7.16	255	9.3	7.5
MW-86	4/27/2015	W86-150427-	7.01	155	9.9	7.5
MW-87	4/20/2015	W87-150420-	6.85	375	10.1	6.8
MW-87	5/14/2015	W87-150514-	6.81	390	10.8	6.3
MW-87	6/19/2015	W87-150619-	6.91	375	11	7.5
MW-88	4/24/2015	W88-150424-	7.26	110	9.4	7
MW-89	4/24/2015	W89-150424-	7.38	150	9.6	8
MW-90	4/9/2015	W90-150409-	7.24	185	9.8	15.2
MW-91	4/13/2015	W91-150413-	7.22	255	9.4	8.3
MW-93	4/28/2015	W93-150428-	7.17	295	11.9	9

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Field Parameters

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature	Purge Volume
			(std. Units)	(umho/cm)	(°C)	(gal)
MW-94	4/2/2015	W94-150402-	6.83	225	9.5	4.8
MW-95	4/6/2015	W95-150406-	7.46	160	9.6	7.5
MW-99	4/20/2015	W99-150420-	8.04	130	10	9.4
MW-99	5/14/2015	W99-150514-	7.78	130	10.2	9.5
MW-99	6/19/2015	W99-150619-	7.95	125	10.4	6.9
MW-100	4/3/2015	W100150403-	6.95	245	10.6	8.6
MW-100	4/3/2015	W100150403D	6.95	245	10.6	8.6
MW-101	4/9/2015	W101150409-	6.46	500	8.3	2+
MW-EB6	4/6/2015	WB6-150406-	6.2	130	9.6	2.5
WS-NPW	4/13/2015	WNPW150413-	7.57	255	10	
EQUIPMENT BLANK	4/9/2015	WU1H150409E	7.71	1	11.2	
EQUIPMENT BLANK	4/9/2015	WU1M150409E	7.41	1.8	10.4	
EQUIPMENT BLANK	4/9/2015	WU1S150409E	7.79	1	11	
FIELD BLANK	4/17/2015	W59-150417F	7	12	11.8	
FIELD BLANK	4/9/2015	W90-150409F	7.96	2.6	11.3	

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Conventional Analytical Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO ₃)	Ammonia, (NH ₃)	Chloride	Nitrate- Nitrogen, (NO ₃ as N)	Specific Conductanc	Sulfate (SO ₄)	Total Dissolved Solids	Total Organic Carbon	Total Solids	Suspended Solids
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(umho/cm)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	4/28/2015	W21-150428-	52	< 0.01 U	2.71	< 0.01 U	135	6.34	86.6	< 1 U	87.1	1.5
MW-24	4/13/2015	W24-150413-	65	0.0388	3.88	< 0.01 U	180	17.3	118	< 1 U	121	2
MW-27A	4/6/2015	W27A150406-	79.4	0.168	5.87	0.121	188	8.23	127	< 1 U	127	< 1 U
MW-28	4/13/2015	W28-150413-	23.5	< 0.01 U	6.22	0.352	97.3	12.9	76.5	< 1 U	72.9	< 1 U
MW-29	4/14/2015	W29-150414-	21.8	< 0.01 U	6.01	1.29	72.5	2.06	65.5	< 1 U	58.9	1.3
MW-30A	4/6/2015	W30A150406-	118	< 0.01 U	0.915	9.71	299	7.62	203	< 1 U	206	< 1 U
MW-43	6/1/2015	W43-150601-	68	0.0258	4.64	< 0.01 U	179	14.1	123	< 1 U	127	1.85
MW-47	4/24/2015	W47-150424-	679	0.0835	7.05	0.011 T	1140	5.41	715	3.6	739	3.5
MW-55	4/20/2015	W55-150420-	57.8	0.0417	3.71	0.024 T	151	12.4	117	< 1 U	116	< 1 U
MW-56	4/14/2015	W56-150414-	53.8	0.0123	4.14	2.78	163	12.2	101	< 1 U	99.3	< 1 U
MW-57	4/2/2015	W57-150402-	62.3	0.0224	6.01	0.021 T	196	23.4	163 B	< 1 U	163	< 1 U
MW-59	4/17/2015	W59-150417-	63.1	0.0174	5.64	0.012 T	183	19.5	113	< 1 U	118	3.97
MW-60	4/7/2015	W60-150407-	71.9	< 0.01 U	2.51	1.01	173	6.46	117	< 1 U	122	4.83
MW-62	4/3/2015	W62-150403-	68.2	< 0.01 U	3.41	3.11	210	15.9	134	< 1 U	136	< 1 U
MW-64	4/28/2015	W64-150428-	97	0.0363	3.01	< 0.01 U	251	23.9	152	< 1 U	163	5.3
MW-65	4/8/2015	W65-150408-	54.2	< 0.01 U	3.67	0.031 T	154	15.6	99.3	< 1 U	106	7.64
MW-66	4/2/2015	W66-150402-	109	< 0.01 U	11.1	0.724	273	15.2	175	< 1 U	176	< 1 U
MW-67	4/24/2015	W67-150424-	136	< 0.01 U	4.63	0.221	357	38.5	223	< 1 U	230	2.5
MW-68	4/27/2015	W68-150427-	127	0.014 T	2.77	< 0.01 U	290	16.5	175	< 1 U	184	4.8
MW-69	4/16/2015	W69-150416-	123	0.0146	3.79	< 0.01 U	285	16.6	170	< 1 U	174	3.1
MW-72	4/29/2015	W72-150429-	115	0.014 T	4.96	0.018 T	332	43.5	212	< 1 U	225	6
MW-73	4/13/2015	W73-150413-	52.7	< 0.01 U	4.59	1.08	143	9.14	101	< 1 U	102	1.3
MW-74	4/20/2015	W74R150420-	221	< 0.01 U	29.2	0.291	554	29.2	322	< 1 U	324	< 1 U
MW-75	4/20/2015	W75-150420-	97.7	< 0.01 U	11.1	< 0.01 U	323	48.4	206	< 1 U	212	1.09
MW-76	4/7/2015	W76-150407-	68.3	< 0.01 U	16.1	2.51	260	22	162	1.76	170	< 1 U
MW-80	4/14/2015	W80-150414-	100	0.012	5.47	< 0.01 U	298	41.2	191	< 1 U	203	24.4
MW-81	4/14/2015	W81-150414-	47.4	< 0.01 U	4.29	1.53	139	7.76	94.9	< 1 U	95.3	< 1 U
MW-82	4/14/2015	W82-150414-	101	< 0.01 U	12.2	0.67	266	17.3	168	< 1 U	173	6.8
MW-83	4/7/2015	W83-150407-	117	< 0.01 U	25.2	0.596	347	8.7	210	1.64	215	< 1 U
MW-84	6/1/2015	W84-150601-	57.2	< 0.01 U	3.64	0.539	159	12.6	105	< 1 U	108	< 1 U
MW-85	4/16/2015	W85-150416-	103	< 0.01 U	9.11	0.107	314	40.8	195	< 1 U	197	< 1 U
MW-85 Duplicate	4/16/2015	W85-150416D	103	< 0.01 U	9.11	0.105	314	40.8	196	< 1 U	198	< 1 U
MW-86	4/27/2015	W86-150427-	62.7	< 0.01 U	4.34	0.381	178	15.7	115	< 1 U	120	5
MW-87	4/20/2015	W87-150420-	87.2	0.0165	7.53	0.015 T	478	138	339	< 1 U	372	49.1
MW-88	4/24/2015	W88-150424-	50.9	< 0.01 U	3.6	0.518	130	6.93	86.3	< 1 U	87.1	< 1 U
MW-89	4/24/2015	W89-150424-	71.1	0.0107	6.19	0.017 T	194	16.1	125	< 1 U	133	6.8
MW-90	4/9/2015	W90-150409-	68.7	0.0169	4.18	< 0.01 U	213	29	143	< 1 U	148	1.55
MW-91	4/13/2015	W91-150413-	91.5	0.0116	9.16	0.038 T	300	43.9	191	< 1 U	266	52.8
MW-93	4/28/2015	W93-150428-	118	0.0552	2.83	0.013 T	371	66.5	243	< 1 U	251	< 1 U
MW-94	4/2/2015	W94-150402-	92.4	< 0.01 U	17.5	2.13	273	5.88	188	1.5	188	< 1 U
MW-95	4/6/2015	W95-150406-	85	0.0266	5.04	< 0.01 U	220	17.3	131	< 1 U	135	< 1 U
MW-99	4/20/2015	W99-150420-	56.5	0.105	3.31	0.012 T	143	8.53	93.7	< 1 U	87.6	< 1 U
MW-100	4/3/2015	W100150403-	125	0.0113	2.9	< 0.01 U	284	15.3	158	< 1 U	174	11.1
MW-100 Duplicate	4/3/2015	W100150403D	125	< 0.01 U	2.89	< 0.01 U	283	15.3	158	< 1 U	176	11.6
MW-101	4/9/2015	W101150409-	262	< 0.01 U	2.72	0.033 T	497	3.67	303	3.84	307	3.48

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater Conventional Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO ₃)	Ammonia, (NH ₃)	Chloride	Nitrate- Nitrogen, (NO ₃ as N)	Specific Conductanc	Sulfate (SO ₄)	Total Dissolved Solids	Total Organic Carbon	Total Solids	Suspended Solids
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(umho/cm)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-EB6	4/6/2015	WB6-150406-	63.6	1.49	0.736	0.026 T	137	1.42	92.7	1.84	101	1.71
WS-NPW	4/13/2015	WNPW150413-	137	0.0217	3.09	0.016 T	305	15.7	189	< 1 U	204	9.86
EQUIPMENT BLANK	4/9/2015	WU1M150409E		< 0.01 U								
FIELD BLANK	4/9/2015	W90-150409F	< 1 U	< 0.01 U	< 0.1 U	< 0.01 U	1.6 T	< 0.1 U	< 5 U	< 1 U	< 5 U	< 1 U
FIELD BLANK	4/17/2015	W59-150417F	1.4 T	< 0.01 U	0.104	0.04 T	4.1 T	< 0.1 U	< 5 U	< 1 U	< 5 U	< 1 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Antimony, dissolved	Antimony, total	Arsenic, dissolved	Arsenic, total	Barium, dissolved	Barium, total	Beryllium, dissolved	Beryllium, total	Cadmium, dissolved	Cadmium, total	Calcium, dissolved	Calcium, total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	4/28/2015	W21-150428-	< 0.001 U	< 0.001 U	0.00101	0.00111	0.00402 D	0.00425	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	10.2	9.91
MW-24	4/13/2015	W24-150413-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00184	0.00179	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	13.4	13
MW-27A	4/6/2015	W27A150406-	< 0.001 U	< 0.001 U	0.0163	0.0174	0.00501 D	0.00486	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	19.2	19.4
MW-28	4/13/2015	W28-150413-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00482	0.00483	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	7.83	7.82
MW-29	4/14/2015	W29-150414-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00114	0.00192	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	6.07	6.12
MW-30A	4/6/2015	W30A150406-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00441 D	0.00473	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	22.5	23.1
MW-43	6/1/2015	W43-150601-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00655	0.00699	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	14	12.8
MW-47	4/24/2015	W47-150424-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00103	0.0396	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	152 D	123
MW-55	4/20/2015	W55-150420-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00383	0.00403	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	12	11
MW-56	4/14/2015	W56-150414-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00299	0.00323	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	13.6	13.4
MW-57	4/2/2015	W57-150402-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00143 D	0.00159	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	14.3	15
MW-59	4/17/2015	W59-150417-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00325	0.0036	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	14.1	15.4
MW-60	4/7/2015	W60-150407-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.0028 D	0.00306	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	15.8	14.8
MW-62	4/3/2015	W62-150403-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00178 D	0.00219	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	16.9	17.6
MW-64	4/28/2015	W64-150428-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00265	0.00866	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	18	19
MW-65	4/8/2015	W65-150408-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00684 D	0.00654	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	11.6	11.3
MW-66	4/2/2015	W66-150402-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00519 D	0.00527	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	20.2	21.5
MW-67	4/24/2015	W67-150424-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.0111	0.0112	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	29	30.9
MW-68	4/27/2015	W68-150427-	< 0.001 U	< 0.001 U	0.0227	0.0468	0.0116	0.013	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	25.6	26.1
MW-69	4/16/2015	W69-150416-	< 0.001 U	< 0.001 U	0.00214	0.00244	0.0103	0.012	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	27.2	29.7
MW-72	4/29/2015	W72-150429-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.011	0.0118 D	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 DU	28.2	25.9
MW-73	4/13/2015	W73-150413-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00241 D	0.00245	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	11.5	11.2
MW-74	4/20/2015	W74R150420-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.0113	0.012	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	44.1	43.6
MW-75	4/20/2015	W75-150420-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.0101	0.0108	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	23.9	22.6
MW-76	4/7/2015	W76-150407-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00389 D	0.00363	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	22.2	21.4
MW-80	4/14/2015	W80-150414-	< 0.001 U	< 0.001 U	0.00432	0.0163	0.013	0.0158	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	27.2	26.1
MW-81	4/14/2015	W81-150414-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00244	0.00268	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	10.8	11.8
MW-82	4/14/2015	W82-150414-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00179	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	22.7	21.5
MW-83	4/7/2015	W83-150407-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00478 D	0.00446	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	33.8	32.2
MW-84	6/1/2015	W84-150601-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00343	0.0035	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	11.3	10.6
MW-85	4/16/2015	W85-150416-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00537	0.00585	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	25.7	29
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00534	0.00586	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	25.9	28.5
MW-86	4/27/2015	W86-150427-	< 0.001 U	< 0.001 U	< 0.001 U	0.00237	0.00351	0.00396	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	13.1	12.8
MW-87	4/20/2015	W87-150420-	< 0.001 U	< 0.001 U	0.00122	0.0125	0.0212	0.028	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	38.3	38.8
MW-88	4/24/2015	W88-150424-	< 0.001 U	< 0.001 U	< 0.001 U	0.00103	0.00222	0.00221	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	8.47	8.33
MW-89	4/24/2015	W89-150424-	< 0.001 U	< 0.001 U	0.00134	0.00307	0.00635	0.00683	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	12.3	12.2
MW-90	4/9/2015	W90-150409-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00589 D	0.00561	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	17	16.3
MW-91	4/13/2015	W91-150413-	< 0.001 U	< 0.001 U	0.00188	0.0267	0.00942	0.021	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	22.8	22.2
MW-93	4/28/2015	W93-150428-	< 0.001 U	< 0.001 U	0.00136	0.00134	0.00834 D	0.00907	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	35	32.7
MW-94	4/2/2015	W94-150402-	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00167 D	0.00168	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	25.2	26.1
MW-95	4/6/2015	W95-150406-	< 0.001 U	< 0.001 U	0.001	0.00109	0.00379 D	0.0038	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	20.3	20.8
MW-99	4/20/2015	W99-150420-	< 0.001 U	< 0.001 U	0.00176	0.00183	0.00327	0.00349	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	9.43	9.17
MW-100	4/3/2015	W100150403-	< 0.001 U	< 0.001 U	< 0.001 U	0.00249	0.00594 D	0.00696	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	25.9	26.5
MW-100 Duplicate	4/3/2015	W100150403D	< 0.001 U	< 0.001 U	< 0.001 U	0.00277	0.00603 D	0.00725	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	26	26.5
MW-101	4/9/2015	W101150409-	< 0.001 U	< 0.001 U	0.0112	0.00326	0.0209 D	0.0152	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	52.7	42.7

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Antimony, dissolved (mg/L)	Antimony, total (mg/L)	Arsenic, dissolved (mg/L)	Arsenic, total (mg/L)	Barium, dissolved (mg/L)	Barium, total (mg/L)	Beryllium, dissolved (mg/L)	Beryllium, total (mg/L)	Cadmium, dissolved (mg/L)	Cadmium, total (mg/L)	Calcium, dissolved (mg/L)	Calcium, total (mg/L)
MW-EB6	4/6/2015	WB6-150406-	< 0.001 U	< 0.001 U	0.00192	0.00199	0.00672 D	0.00756	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	5.32	4.96
WS-NPW	4/13/2015	WNPW150413-		< 0.001 U		< 0.001 U		0.0115		< 0.001 U		< 0.002 U		27.2
EQUIPMENT BLANK	4/9/2015	WU1S150409E	< 0.001 U		< 0.001 U		< 0.001 U		< 0.001 U		< 0.002 U		< 0.01 U	
EQUIPMENT BLANK	4/9/2015	WU1H150409E	< 0.001 U		< 0.001 U		< 0.001 U		< 0.001 U		< 0.002 U		< 0.01 U	
FIELD BLANK	4/9/2015	W90-150409F	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 DU	< 0.001 U	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.01 U	< 0.01 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Chromium, dissolved (mg/L)	Chromium, total (mg/L)	Cobalt, dissolved (mg/L)	Cobalt, total (mg/L)	Copper, dissolved (mg/L)	Copper, total (mg/L)	Iron, dissolved (mg/L)	Iron, total (mg/L)	Lead, dissolved (mg/L)	Lead, total (mg/L)	Magnesium, dissolved (mg/L)	Magnesium, total (mg/L)
MW-21	4/28/2015	W21-150428-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 DU	2.15	2.42	< 0.001 U	< 0.001 U	5.54	5.04
MW-24	4/13/2015	W24-150413-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	3.07	3.06	< 0.001 U	< 0.001 U	8.9	8.77
MW-27A	4/6/2015	W27A150406-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	5.36 D	5.19
MW-28	4/13/2015	W28-150413-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	1.98	1.95
MW-29	4/14/2015	W29-150414-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.109	< 0.001 U	< 0.001 U	1.47	1.54
MW-30A	4/6/2015	W30A150406-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.0805	< 0.001 U	< 0.001 DU	12.4 D	11.9
MW-43	6/1/2015	W43-150601-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.943	1.51	< 0.001 U	< 0.001 U	8.42	9.13
MW-47	4/24/2015	W47-150424-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.968	1.4	< 0.001 U	< 0.001 U	79.5 D	56.9
MW-55	4/20/2015	W55-150420-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.251	0.26	< 0.001 U	< 0.001 U	6.37	5.73
MW-56	4/14/2015	W56-150414-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.049 T	0.109	< 0.001 U	< 0.001 U	7.43	7.5
MW-57	4/2/2015	W57-150402-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	7.88	8.12	< 0.001 U	< 0.001 U	7.93 D	7.98
MW-59	4/17/2015	W59-150417-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	4.34	4.72	< 0.001 U	< 0.001 U	8.81	8.2 D
MW-60	4/7/2015	W60-150407-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	0.121	0.369	< 0.001 U	< 0.001 U	7.43 D	7.12
MW-62	4/3/2015	W62-150403-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	0.013 T	0.104	< 0.001 U	< 0.001 DU	5.66 D	5.74
MW-64	4/28/2015	W64-150428-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 DU	0.0897	1.05	< 0.001 U	< 0.001 U	13.4	14.9
MW-65	4/8/2015	W65-150408-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	4.36	4.25	< 0.001 U	< 0.001 U	7.12 D	6.81
MW-66	4/2/2015	W66-150402-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.014 T	< 0.001 U	< 0.001 U	15.9 D	16.3
MW-67	4/24/2015	W67-150424-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.151	0.347	< 0.001 U	< 0.001 U	19.4	17.3
MW-68	4/27/2015	W68-150427-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 DU	0.815	1.77	< 0.001 U	< 0.001 U	13.9	14.8
MW-69	4/16/2015	W69-150416-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.852	1.17	< 0.001 U	< 0.001 U	13.2	12.4 D
MW-72	4/29/2015	W72-150429-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 DU	< 0.002 U	< 0.002 U	2.32	2.87	< 0.001 U	< 0.001 U	15.8	17.4 D
MW-73	4/13/2015	W73-150413-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.019 T	< 0.001 U	< 0.001 U	6.03 D	5.76
MW-74	4/20/2015	W74R150420-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.0506	< 0.001 U	< 0.001 U	33.7	31.2
MW-75	4/20/2015	W75-150420-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	1.77	1.87	< 0.001 U	< 0.001 U	18.2	16.7
MW-76	4/7/2015	W76-150407-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	10.5 D	9.84
MW-80	4/14/2015	W80-150414-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	1.8	5.36	< 0.001 U	< 0.001 U	14.5	13.9
MW-81	4/14/2015	W81-150414-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	5.83	5.47 D
MW-82	4/14/2015	W82-150414-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.023 T	0.118	< 0.001 U	< 0.001 U	13.7	13.3
MW-83	4/7/2015	W83-150407-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	14.7 D	14
MW-84	6/1/2015	W84-150601-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	7.89	8.44
MW-85	4/16/2015	W85-150416-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	16.2	15 D
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	16.2	15.2 D
MW-86	4/27/2015	W86-150427-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 DU	0.197	1.6	< 0.001 U	< 0.001 U	8.62	7.95
MW-87	4/20/2015	W87-150420-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	4.33	14.1	< 0.001 U	< 0.001 U	26.1	24.1
MW-88	4/24/2015	W88-150424-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.015 T	< 0.001 U	< 0.001 U	6.96	6.27
MW-89	4/24/2015	W89-150424-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.99	2.28	< 0.001 U	< 0.001 U	10	8.79
MW-90	4/9/2015	W90-150409-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	1.26	1.38	< 0.001 U	< 0.001 U	10.3 D	9.78
MW-91	4/13/2015	W91-150413-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	1.73	34.5	< 0.001 U	< 0.001 U	15.4	14.8
MW-93	4/28/2015	W93-150428-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 DU	< 0.01 U	0.014 T	< 0.001 U	< 0.001 U	18	16.7
MW-94	4/2/2015	W94-150402-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	11.3 D	11.1
MW-95	4/6/2015	W95-150406-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 DU	10.8 D	10.8
MW-99	4/20/2015	W99-150420-	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.046 T	0.0887	< 0.001 U	< 0.001 U	4.45	4.24
MW-100	4/3/2015	W100150403-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	0.93	3.51	< 0.001 U	< 0.001 U	14.7 D	14.4
MW-100 Duplicate	4/3/2015	W100150403D	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	0.00322	0.942	3.86	< 0.001 U	< 0.001 U	15 D	14.6
MW-101	4/9/2015	W101150409-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	0.932	0.705	< 0.001 U	< 0.001 U	36.1 D	24.4

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Chromium, dissolved (mg/L)	Chromium, total (mg/L)	Cobalt, dissolved (mg/L)	Cobalt, total (mg/L)	Copper, dissolved (mg/L)	Copper, total (mg/L)	Iron, dissolved (mg/L)	Iron, total (mg/L)	Lead, dissolved (mg/L)	Lead, total (mg/L)	Magnesium, dissolved (mg/L)	Magnesium, total (mg/L)
MW-EB6	4/6/2015	WB6-150406-	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	0.00264	2.57	3	< 0.001 U	< 0.001 U	2.95 D	2.7
WS-NPW	4/13/2015	WNPW150413-		< 0.005 U		< 0.003 U		< 0.002 U		4.67		< 0.001 U		15
EQUIPMENT BLANK	4/9/2015	WU1S150409E	< 0.005 U		< 0.003 U		< 0.002 DU		< 0.01 U		< 0.001 U		< 0.015 U	
EQUIPMENT BLANK	4/9/2015	WU1H150409E	< 0.005 U		< 0.003 U		< 0.002 DU		< 0.01 U		< 0.001 U		< 0.015 U	
FIELD BLANK	4/9/2015	W90-150409F	< 0.005 U	< 0.005 U	< 0.003 DU	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	< 0.015 DU	< 0.015 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	< 0.01 U	< 0.001 U	< 0.001 U	< 0.015 U	< 0.015 DU

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Manganese, dissolved	Manganese, total	Mercury, dissolved	Mercury, total	Nickel, dissolved	Nickel, total	Potassium, dissolved	Potassium, total	Selenium, dissolved	Selenium, total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	4/28/2015	W21-150428-	0.0794 D	0.0789	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.982	1.04 D	< 0.001 U	< 0.001 U
MW-24	4/13/2015	W24-150413-	0.101	0.0957	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.927	0.909	< 0.001 U	< 0.001 U
MW-27A	4/6/2015	W27A150406-	0.0586 D	0.0558	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	3.44	3.48 D	< 0.001 U	< 0.001 U
MW-28	4/13/2015	W28-150413-	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.911	0.911	< 0.001 U	< 0.001 U
MW-29	4/14/2015	W29-150414-	< 0.001 U	0.00164	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.48 T	0.5 T	< 0.001 U	< 0.001 U
MW-30A	4/6/2015	W30A150406-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	1.58	1.61 D	< 0.001 U	< 0.001 U
MW-43	6/1/2015	W43-150601-	0.212	0.253	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.32	1.41	< 0.001 U	< 0.001 U
MW-47	4/24/2015	W47-150424-	2.65 D	2.06	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	4.44	4.81	< 0.001 U	< 0.001 U
MW-55	4/20/2015	W55-150420-	0.147	0.145	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.68	1.69	< 0.001 U	< 0.001 U
MW-56	4/14/2015	W56-150414-	0.184	0.181	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.09	1.06	< 0.001 U	< 0.001 U
MW-57	4/2/2015	W57-150402-	0.227 D	0.223	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	0.85	0.866 D	< 0.001 U	< 0.001 U
MW-59	4/17/2015	W59-150417-	0.103	0.108	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.07	0.973	< 0.001 U	< 0.001 U
MW-60	4/7/2015	W60-150407-	0.00249 D	0.00547	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.05	1.06	< 0.001 U	< 0.001 U
MW-62	4/3/2015	W62-150403-	< 0.001 DU	0.00328	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	0.944	1.02 D	< 0.001 U	< 0.001 U
MW-64	4/28/2015	W64-150428-	0.0386	0.235	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.56 D	1.76 D	< 0.001 U	< 0.001 U
MW-65	4/8/2015	W65-150408-	0.194 D	0.182	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.899	0.929	< 0.001 U	< 0.001 U
MW-66	4/2/2015	W66-150402-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	1.26	1.27 D	< 0.001 U	< 0.001 U
MW-67	4/24/2015	W67-150424-	0.159	0.165	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.65	1.65	< 0.001 U	< 0.001 U
MW-68	4/27/2015	W68-150427-	0.281	0.278	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.6 D	1.71 D	< 0.001 U	< 0.001 U
MW-69	4/16/2015	W69-150416-	0.221	0.238	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.61	1.64	< 0.001 U	< 0.001 U
MW-72	4/29/2015	W72-150429-	0.304	0.285 D	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.83	1.8	< 0.001 U	< 0.001 U
MW-73	4/13/2015	W73-150413-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.782	0.81	< 0.001 U	< 0.001 U
MW-74	4/20/2015	W74R150420-	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	2.08	2.09	< 0.001 U	< 0.001 U
MW-75	4/20/2015	W75-150420-	0.148	0.144	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.72	1.75	< 0.001 U	< 0.001 U
MW-76	4/7/2015	W76-150407-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.34	1.39	< 0.001 U	< 0.001 U
MW-80	4/14/2015	W80-150414-	0.278	0.278	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.58	1.54	< 0.001 U	< 0.001 U
MW-81	4/14/2015	W81-150414-	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.748	0.745	< 0.001 U	0.00104
MW-82	4/14/2015	W82-150414-	< 0.001 U	0.0011	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.68	1.62	< 0.001 U	< 0.001 U
MW-83	4/7/2015	W83-150407-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	2.31	2.26	< 0.001 U	< 0.001 U
MW-84	6/1/2015	W84-150601-	0.00182	0.00125 D	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.96	1.02	< 0.001 U	< 0.001 U
MW-85	4/16/2015	W85-150416-	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.5	1.51	0.00119	0.00129
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.49	1.51	0.00113	0.00131
MW-86	4/27/2015	W86-150427-	0.00446	0.00524	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.17	1.15 D	0.00186	0.00131
MW-87	4/20/2015	W87-150420-	0.407	0.408	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	2.17	2.24	< 0.001 U	< 0.001 U
MW-88	4/24/2015	W88-150424-	< 0.001 U	0.00103	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.741	0.859	< 0.001 U	< 0.001 U
MW-89	4/24/2015	W89-150424-	0.19	0.194	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.41	1.49	< 0.001 U	< 0.001 U
MW-90	4/9/2015	W90-150409-	0.274 D	0.255	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.3	1.35	< 0.001 U	< 0.001 U
MW-91	4/13/2015	W91-150413-	0.319	1.51 D	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.73	1.67	< 0.001 U	< 0.001 U
MW-93	4/28/2015	W93-150428-	0.266 D	0.245	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.59	1.66 D	< 0.001 U	< 0.001 U
MW-94	4/2/2015	W94-150402-	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	2.02	2.05 D	< 0.001 U	< 0.001 U
MW-95	4/6/2015	W95-150406-	0.144 D	0.149	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	1.15	1.22 D	< 0.001 U	< 0.001 U
MW-99	4/20/2015	W99-150420-	0.135	0.137	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	0.887	0.91	< 0.001 U	< 0.001 U
MW-100	4/3/2015	W100150403-	0.188 D	0.188	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	1.79	1.81 D	< 0.001 U	< 0.001 U
MW-100 Duplicate	4/3/2015	W100150403D	0.193 D	0.186	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 DU	1.8	1.8 D	< 0.001 U	< 0.001 U
MW-101	4/9/2015	W101150409-	1.2 D	0.268	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	2.6	2.38	< 0.001 U	< 0.001 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Manganese, dissolved (mg/L)	Manganese, total (mg/L)	Mercury, dissolved (mg/L)	Mercury, total (mg/L)	Nickel, dissolved (mg/L)	Nickel, total (mg/L)	Potassium, dissolved (mg/L)	Potassium, total (mg/L)	Selenium, dissolved (mg/L)	Selenium, total (mg/L)
MW-EB6	4/6/2015	WB6-150406-	0.119 D	0.0951	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	1.04	1.03	< 0.001 U	< 0.001 U
WS-NPW	4/13/2015	WNPW150413-		0.822 D		< 0.0001 U		< 0.01 U		1.6		< 0.001 U
EQUIPMENT BLANK	4/9/2015	WU1S150409E	< 0.001 U		< 0.0001 U		< 0.01 U		< 0.3 U		< 0.001 U	
EQUIPMENT BLANK	4/9/2015	WU1H150409E	< 0.001 U		< 0.0001 U		< 0.01 U		< 0.3 U		< 0.001 U	
FIELD BLANK	4/9/2015	W90-150409F	< 0.001 DU	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	< 0.3 U	< 0.3 U	< 0.001 U	< 0.001 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.001 U	< 0.001 U	< 0.0001 U	< 0.0001 U	< 0.01 U	< 0.01 U	< 0.3 U	< 0.3 U	< 0.001 U	< 0.001 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Silver, dissolved (mg/L)	Silver, total (mg/L)	Sodium, dissolved (mg/L)	Sodium, total (mg/L)	Thallium, dissolved (mg/L)	Thallium, total (mg/L)	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
MW-21	4/28/2015	W21-150428-	< 0.003 U	< 0.003 U	5.22	4.87	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-24	4/13/2015	W24-150413-	< 0.003 U	< 0.003 U	5.48	5.23	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-27A	4/6/2015	W27A150406-	< 0.003 DU	< 0.003 U	6.79	6.72	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-28	4/13/2015	W28-150413-	< 0.003 U	< 0.003 U	5.29	5.23	< 0.001 DU	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-29	4/14/2015	W29-150414-	< 0.003 U	< 0.003 U	4.08	4.03	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-30A	4/6/2015	W30A150406-	< 0.003 DU	< 0.003 U	14.1	14.5	< 0.001 DU	< 0.001 DU	< 0.002 U	0.0021	< 0.004 U	< 0.004 U
MW-43	6/1/2015	W43-150601-	< 0.003 U	< 0.003 U	5.61	6.2	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-47	4/24/2015	W47-150424-	< 0.003 U	< 0.003 U	15.2	16.2	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-55	4/20/2015	W55-150420-	< 0.003 U	< 0.003 U	5.54	4.91	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-56	4/14/2015	W56-150414-	< 0.003 U	< 0.003 U	5.02	4.83	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-57	4/2/2015	W57-150402-	< 0.003 DU	< 0.003 U	5.83	6.15	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-59	4/17/2015	W59-150417-	< 0.003 U	< 0.003 U	5.71	5.87	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-60	4/7/2015	W60-150407-	< 0.003 DU	< 0.003 U	5.52	5.1	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-62	4/3/2015	W62-150403-	< 0.003 DU	< 0.003 U	13.3	13.9	< 0.001 DU	< 0.001 DU	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-64	4/28/2015	W64-150428-	< 0.003 U	< 0.003 U	6.78	7.6	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-65	4/8/2015	W65-150408-	< 0.003 DU	< 0.003 U	5.21	4.98	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-66	4/2/2015	W66-150402-	< 0.003 DU	< 0.003 U	7.9	8.3	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-67	4/24/2015	W67-150424-	< 0.003 U	< 0.003 U	7.71	7.97	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-68	4/27/2015	W68-150427-	< 0.003 U	< 0.003 U	7.64	8.41	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-69	4/16/2015	W69-150416-	< 0.003 U	< 0.003 U	7.64	7.91	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-72	4/29/2015	W72-150429-	< 0.003 U	< 0.003 DU	6.78	6.09	< 0.001 U	< 0.001 DU	< 0.002 U	< 0.002 U	< 0.004 U	0.00806
MW-73	4/13/2015	W73-150413-	< 0.003 DU	< 0.003 U	5.34	5.21	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-74	4/20/2015	W74R150420-	< 0.003 U	< 0.003 U	11.9	10.9	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-75	4/20/2015	W75-150420-	< 0.003 U	< 0.003 U	8.1	7.34	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-76	4/7/2015	W76-150407-	< 0.003 DU	< 0.003 U	8.83	8.49	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-80	4/14/2015	W80-150414-	< 0.003 U	< 0.003 U	7.45	6.92	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-81	4/14/2015	W81-150414-	< 0.003 U	< 0.003 U	5.58	5.79	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-82	4/14/2015	W82-150414-	< 0.003 U	< 0.003 U	7.02	6.61	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-83	4/7/2015	W83-150407-	< 0.003 DU	< 0.003 U	7.8	7.4	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-84	6/1/2015	W84-150601-	< 0.003 U	< 0.003 U	5.36	5.84	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-85	4/16/2015	W85-150416-	< 0.003 U	< 0.003 U	8.24	8.96	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.003 U	< 0.003 U	8.15	8.64	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-86	4/27/2015	W86-150427-	< 0.003 U	< 0.003 U	5.85	5.78	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-87	4/20/2015	W87-150420-	< 0.003 U	< 0.003 U	9.41	8.58	< 0.001 U	< 0.001 U	< 0.002 DU	0.00239	< 0.004 U	< 0.004 U
MW-88	4/24/2015	W88-150424-	< 0.003 U	< 0.003 U	5.22	5.23	< 0.001 U	< 0.001 U	0.00262	0.00271	< 0.004 U	< 0.004 U
MW-89	4/24/2015	W89-150424-	< 0.003 U	< 0.003 U	7.25	7.53	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-90	4/9/2015	W90-150409-	< 0.003 DU	< 0.003 U	6.31	5.94	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-91	4/13/2015	W91-150413-	< 0.003 U	< 0.003 U	7.6	7.21	< 0.001 U	< 0.001 U	< 0.002 DU	0.00319	< 0.004 U	< 0.004 U
MW-93	4/28/2015	W93-150428-	< 0.003 U	< 0.003 U	9.43	8.98	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U	0.00441	0.00688
MW-94	4/2/2015	W94-150402-	< 0.003 DU	< 0.003 U	6.71	6.87	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-95	4/6/2015	W95-150406-	< 0.003 DU	< 0.003 U	5.99	6.01	< 0.001 DU	< 0.001 DU	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
MW-99	4/20/2015	W99-150420-	< 0.003 U	< 0.003 U	10.4	9.83	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U
MW-100	4/3/2015	W100150403-	< 0.003 DU	< 0.003 U	8.82	8.9	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	0.00922
MW-100 Duplicate	4/3/2015	W100150403D	< 0.003 DU	< 0.003 U	8.97	9	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	0.011
MW-101	4/9/2015	W101150409-	< 0.003 DU	< 0.003 U	14.7	15.4	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Groundwater Metals Analytical Data

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	Silver, dissolved (mg/L)	Silver, total (mg/L)	Sodium, dissolved (mg/L)	Sodium, total (mg/L)	Thallium, dissolved (mg/L)	Thallium, total (mg/L)	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
MW-EB6	4/6/2015	WB6-150406-	< 0.003 DU	< 0.003 U	14.9	14	< 0.001 DU	< 0.001 U	< 0.002 U	0.00208	< 0.004 U	< 0.004 U
WS-NPW	4/13/2015	WNPW150413-		< 0.003 U		7.84		< 0.001 U		< 0.002 U		0.0147
EQUIPMENT BLANK	4/9/2015	WU1S150409E	< 0.003 U		< 0.05 U		< 0.001 U		< 0.002 DU		< 0.004 DU	
EQUIPMENT BLANK	4/9/2015	WU1H150409E	< 0.003 U		< 0.05 U		< 0.001 U		< 0.002 DU		< 0.004 DU	
FIELD BLANK	4/9/2015	W90-150409F	< 0.003 DU	< 0.003 U	< 0.05 U	< 0.05 U	< 0.001 DU	< 0.001 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.003 U	< 0.003 U	0.454	0.415	< 0.001 U	< 0.001 U	< 0.002 DU	< 0.002 U	< 0.004 U	< 0.004 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Groundwater VOA Analytical Data
 Contact Person: Sandv Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane 630-20-6 (ug/L)	1,1,1-Trichloro-ethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloro-ethane 79-34-5 (ug/L)	1,1,2-Trichloro-ethane 79-00-5 (ug/L)	1,1-Dichloro-ethane 75-34-3 (ug/L)	1,1-Dichloro-ethene 75-35-4 (ug/L)	1,2,3-Trichloro-propane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)	1,2-Dibromo-ethane 106-93-4 (ug/L)	1,2-Dichloro-benzene 95-50-1 (ug/L)	1,2-Dichloro-ethane 107-06-2 (ug/L)	1,2-Dichloro-propane 78-87-5 (ug/L)
MW-21	4/28/2015	W21-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-24	4/13/2015	W24-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-27A	4/6/2015	W27A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-28	4/13/2015	W28-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-29	4/14/2015	W29-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-30A	4/6/2015	W30A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.25	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-43	6/1/2015	W43-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-47	4/24/2015	W47-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.678	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-55	4/20/2015	W55-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-56	4/14/2015	W56-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-57	4/2/2015	W57-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-59	4/17/2015	W59-150417-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-60	4/7/2015	W60-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-62	4/3/2015	W62-150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1.28	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-64	4/28/2015	W64-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-65	4/8/2015	W65-150408-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-66	4/2/2015	W66-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-67	4/24/2015	W67-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-68	4/27/2015	W68-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-69	4/16/2015	W69-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-72	4/29/2015	W72-150429-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-73	4/13/2015	W73-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	4/20/2015	W74R150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	5/8/2015	W74R150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	6/19/2015	W74R150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	4/20/2015	W75-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	5/8/2015	W75-150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	6/19/2015	W75-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-76	4/7/2015	W76-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-80	4/14/2015	W80-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-81	4/14/2015	W81-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-82	4/14/2015	W82-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-83	4/7/2015	W83-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-84	6/1/2015	W84-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85	4/16/2015	W85-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-86	4/27/2015	W86-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	4/20/2015	W87-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	5/14/2015	W87-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	6/19/2015	W87-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-88	4/24/2015	W88-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-89	4/24/2015	W89-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-90	4/9/2015	W90-150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-91	4/13/2015	W91-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-93	4/28/2015	W93-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane 630-20-6 (ug/L)	1,1,1-Trichloro-ethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloro-ethane 79-34-5 (ug/L)	1,1,2-Trichloro-ethane 79-00-5 (ug/L)	1,1-Dichloro-ethane 75-34-3 (ug/L)	1,1-Dichloro-ethene 75-35-4 (ug/L)	1,2,3-Trichloro-propane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)	1,2-Dibromo-ethane 106-93-4 (ug/L)	1,2-Dichloro-benzene 95-50-1 (ug/L)	1,2-Dichloro-ethane 107-06-2 (ug/L)	1,2-Dichloro-propane 78-87-5 (ug/L)
MW-94	4/2/2015	W94-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-95	4/6/2015	W95-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	4/20/2015	W99-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	5/14/2015	W99-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	6/19/2015	W99-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100	4/3/2015	W100150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100 Duplicate	4/3/2015	W100150403D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-101	4/9/2015	W101150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-EB6	4/6/2015	WB6-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/9/2015	W90-150409F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150403C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150406B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/3/2015	VTRP150406C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150407C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150413B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/7/2015	VTRP150408C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/8/2015	VTRP150409C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/9/2015	VTRP150413C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/15/2015	VTRP150416C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150420C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150417B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/17/2015	VTRP150420B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/24/2015	VTRP150427C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/27/2015	VTRP150428C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/7/2015	VTRP150508B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/13/2015	VTRP150514T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/28/2015	VTRP150601C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/29/2015	VTRP150601B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
WS-NPW	4/13/2015	WNPW150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Groundwater VOA Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,4-Dichloro- benzene	2-Butanone	2-Hexanone	4-Methyl-2- Pentanone	Acetone	Arylonitrile	Benzene	Bromochloro- methane	Bromodichloro- methane	Bromoform	Bromo- methane	Carbon Disulfide
			106-46-7 (ug/L)	78-93-3 (ug/L)	591-78-6 (ug/L)	108-10-1 (ug/L)	67-64-1 (ug/L)	107-13-1 (ug/L)	71-43-2 (ug/L)	74-97-5 (ug/L)	75-27-4 (ug/L)	75-25-2 (ug/L)	74-83-9 (ug/L)	75-15-0 (ug/L)
MW-21	4/28/2015	W21-150428-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-24	4/13/2015	W24-150413-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-27A	4/6/2015	W27A150406-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-28	4/13/2015	W28-150413-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-29	4/14/2015	W29-150414-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-30A	4/6/2015	W30A150406-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-43	6/1/2015	W43-150601-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-47	4/24/2015	W47-150424-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-55	4/20/2015	W55-150420-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-56	4/14/2015	W56-150414-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-57	4/2/2015	W57-150402-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-59	4/17/2015	W59-150417-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-60	4/7/2015	W60-150407-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-62	4/3/2015	W62-150403-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-64	4/28/2015	W64-150428-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-65	4/8/2015	W65-150408-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-66	4/2/2015	W66-150402-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-67	4/24/2015	W67-150424-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-68	4/27/2015	W68-150427-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-69	4/16/2015	W69-150416-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-72	4/29/2015	W72-150429-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-73	4/13/2015	W73-150413-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	4/20/2015	W74R150420-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	5/8/2015	W74R150508-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	6/19/2015	W74R150619-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	4/20/2015	W75-150420-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	5/8/2015	W75-150508-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	6/19/2015	W75-150619-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-76	4/7/2015	W76-150407-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-80	4/14/2015	W80-150414-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-81	4/14/2015	W81-150414-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-82	4/14/2015	W82-150414-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-83	4/7/2015	W83-150407-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-84	6/1/2015	W84-150601-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85	4/16/2015	W85-150416-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-86	4/27/2015	W86-150427-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	4/20/2015	W87-150420-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	5/14/2015	W87-150514-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	6/19/2015	W87-150619-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-88	4/24/2015	W88-150424-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-89	4/24/2015	W89-150424-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-90	4/9/2015	W90-150409-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-91	4/13/2015	W91-150413-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-93	4/28/2015	W93-150428-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	1,4-Dichloro- benzene	2-Butanone	2-Hexanone	4-Methyl-2- Pentanone	Acetone	Arylonitrile	Benzene	Bromochloro- methane	Bromodichloro- methane	Bromoform	Bromo- methane	Carbon Disulfide
			106-46-7 (ug/L)	78-93-3 (ug/L)	591-78-6 (ug/L)	108-10-1 (ug/L)	67-64-1 (ug/L)	107-13-1 (ug/L)	71-43-2 (ug/L)	74-97-5 (ug/L)	75-27-4 (ug/L)	75-25-2 (ug/L)	74-83-9 (ug/L)	75-15-0 (ug/L)
MW-94	4/2/2015	W94-150402-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-95	4/6/2015	W95-150406-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	4/20/2015	W99-150420-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	5/14/2015	W99-150514-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	6/19/2015	W99-150619-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100	4/3/2015	W100150403-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100 Duplicate	4/3/2015	W100150403D	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-101	4/9/2015	W101150409-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-EB6	4/6/2015	WB6-150406-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/9/2015	W90-150409F	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150403C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150406B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/3/2015	VTRP150406C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150407C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150413B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/7/2015	VTRP150408C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/8/2015	VTRP150409C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/9/2015	VTRP150413C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/15/2015	VTRP150416C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150420C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150417B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/17/2015	VTRP150420B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/24/2015	VTRP150427C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/27/2015	VTRP150428C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429T	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/7/2015	VTRP150508B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/13/2015	VTRP150514T	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/28/2015	VTRP150601C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/29/2015	VTRP150601B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619B	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
WS-NPW	4/13/2015	WNPW150413-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Carbon Tetrachloride 56-23-5 (ug/L)	Chloro- benzene 108-90-7 (ug/L)	Chloro- dibromo- methane 124-48-1 (ug/L)	Chloro- ethane 75-00-3 (ug/L)	Chloroform 67-66-3 (ug/L)	Chloro- methane 74-87-3 (ug/L)	cis-1,2- Dichloro- ethene 156-59-2 (ug/L)	cis-1,3- Dichloro- propene 10061-01-5 (ug/L)	Dibromo- methane 74-95-3 (ug/L)	Dichloro- difluoro- methane 75-71-8 (ug/L)	Ethyl - benzene 100-41-4 (ug/L)	m, p-Xylene (ug/L)
MW-21	4/28/2015	W21-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-24	4/13/2015	W24-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-27A	4/6/2015	W27A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-28	4/13/2015	W28-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-29	4/14/2015	W29-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-30A	4/6/2015	W30A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.79	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-43	6/1/2015	W43-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-47	4/24/2015	W47-150424-	< 0.2 U	< 0.2 U	< 0.2 U	0.25 T	< 0.2 U	< 0.2 U	2.76	< 0.2 U	< 0.2 U	3.77	< 0.2 U	< 0.2 U
MW-55	4/20/2015	W55-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-56	4/14/2015	W56-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1.22	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-57	4/2/2015	W57-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-59	4/17/2015	W59-150417-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.788	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-60	4/7/2015	W60-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-62	4/3/2015	W62-150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.15	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-64	4/28/2015	W64-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-65	4/8/2015	W65-150408-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-66	4/2/2015	W66-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-67	4/24/2015	W67-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-68	4/27/2015	W68-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-69	4/16/2015	W69-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-72	4/29/2015	W72-150429-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-73	4/13/2015	W73-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	4/20/2015	W74R150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	5/8/2015	W74R150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	6/19/2015	W74R150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	4/20/2015	W75-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	5/8/2015	W75-150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	6/19/2015	W75-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.496 G	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-76	4/7/2015	W76-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.567	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-80	4/14/2015	W80-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-81	4/14/2015	W81-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-82	4/14/2015	W82-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-83	4/7/2015	W83-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-84	6/1/2015	W84-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85	4/16/2015	W85-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-86	4/27/2015	W86-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	4/20/2015	W87-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	5/14/2015	W87-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	6/19/2015	W87-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.23 GT	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-88	4/24/2015	W88-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-89	4/24/2015	W89-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-90	4/9/2015	W90-150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-91	4/13/2015	W91-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-93	4/28/2015	W93-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sandv Jimenez (206) 477-5224

Site	Date	Sample ID	Carbon	Chloro-	Chloro-	Chloro-	Chloroform	Chloro-	cis-1,2-	cis-1,3-	Dibromo-	Dichloro-	Ethyl -	m, p-Xylene
			Tetrachloride	benzene	dibromo- methane	ethane		methane	Dichloro- ethene	Dichloro- propene	methane	difluoro- methane	benzene	
			56-23-5 (ug/L)	108-90-7 (ug/L)	124-48-1 (ug/L)	75-00-3 (ug/L)	67-66-3 (ug/L)	74-87-3 (ug/L)	156-59-2 (ug/L)	10061-01-5 (ug/L)	74-95-3 (ug/L)	75-71-8 (ug/L)	100-41-4 (ug/L)	
MW-94	4/2/2015	W94-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-95	4/6/2015	W95-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	4/20/2015	W99-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	5/14/2015	W99-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	6/19/2015	W99-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1.3 G	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100	4/3/2015	W100150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-100 Duplicate	4/3/2015	W100150403D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-101	4/9/2015	W101150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-EB6	4/6/2015	WB6-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/9/2015	W90-150409F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150403C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/2/2015	VTRP150406B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/3/2015	VTRP150406C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150407C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/6/2015	VTRP150413B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/7/2015	VTRP150408C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/8/2015	VTRP150409C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/9/2015	VTRP150413C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/13/2015	VTRP150414B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/15/2015	VTRP150416C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150420C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/16/2015	VTRP150417B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/17/2015	VTRP150420B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/22/2015	VTRP150424C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/24/2015	VTRP150427C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/27/2015	VTRP150428C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/7/2015	VTRP150508B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/13/2015	VTRP150514T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1.01 BG	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/28/2015	VTRP150601C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/29/2015	VTRP150601B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.509	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.26 GT	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/18/2015	VTRP150619C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.35 GT	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
WS-NPW	4/13/2015	WNPW150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Iodide	Methylene Chloride	o-Xylene	Styrene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,3- Dichloro- propene	trans-1,4- Dichloro-2- butene	Trichloro- ethene	Trichloro- fluoro- methane	Vinyl Acetate	Vinyl Chloride
			74-88-4 (ug/L)	75-09-2 (ug/L)	95-47-6 (ug/L)	100-42-5 (ug/L)	127-18-4 (ug/L)	108-88-3 (ug/L)	156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
MW-21	4/28/2015	W21-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-24	4/13/2015	W24-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-27A	4/6/2015	W27A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-28	4/13/2015	W28-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-29	4/14/2015	W29-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-30A	4/6/2015	W30A150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	1.2	< 0.2 U	< 0.2 U	< 0.02 U
MW-43	6/1/2015	W43-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-47	4/24/2015	W47-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	5.26
MW-55	4/20/2015	W55-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-56	4/14/2015	W56-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-57	4/2/2015	W57-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-59	4/17/2015	W59-150417-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-60	4/7/2015	W60-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-62	4/3/2015	W62-150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-64	4/28/2015	W64-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-65	4/8/2015	W65-150408-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	0.0374
MW-66	4/2/2015	W66-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-67	4/24/2015	W67-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-68	4/27/2015	W68-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-69	4/16/2015	W69-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-72	4/29/2015	W72-150429-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-73	4/13/2015	W73-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-74	4/20/2015	W74R150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-74	5/8/2015	W74R150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-74	6/19/2015	W74R150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-75	4/20/2015	W75-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-75	5/8/2015	W75-150508-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-75	6/19/2015	W75-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-76	4/7/2015	W76-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.442	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	8.91	< 0.2 U	< 0.2 U	< 0.02 U
MW-80	4/14/2015	W80-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-81	4/14/2015	W81-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-82	4/14/2015	W82-150414-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	5.81	< 0.2 U	< 0.2 U	< 0.02 U
MW-83	4/7/2015	W83-150407-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	1.88	< 0.2 U	< 0.2 U	< 0.02 U
MW-84	6/1/2015	W84-150601-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-85	4/16/2015	W85-150416-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-85 Duplicate	4/16/2015	W85-150416D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-86	4/27/2015	W86-150427-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-87	4/20/2015	W87-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-87	5/14/2015	W87-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-87	6/19/2015	W87-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-88	4/24/2015	W88-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-88	4/24/2015	W89-150424-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-90	4/9/2015	W90-150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-91	4/13/2015	W91-150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-93	4/28/2015	W93-150428-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Groundwater VOA Analytical Data

Contact Person: Sandv Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Iodide	Methylene Chloride	o-Xylene	Styrene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,3- Dichloro- propene	trans-1,4- Dichloro-2- butene	Trichloro- ethene	Trichloro- fluoro- methane	Vinyl Acetate	Vinyl Chloride
			74-88-4 (ug/L)	75-09-2 (ug/L)	95-47-6 (ug/L)	100-42-5 (ug/L)	127-18-4 (ug/L)	108-88-3 (ug/L)	156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
MW-94	4/2/2015	W94-150402-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	2.63	< 0.2 U	< 0.2 U	< 0.02 U
MW-95	4/6/2015	W95-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-99	4/20/2015	W99-150420-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-99	5/14/2015	W99-150514-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-99	6/19/2015	W99-150619-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-100	4/3/2015	W100150403-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-100 Duplicate	4/3/2015	W100150403D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
MW-101	4/9/2015	W101150409-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	0.224
MW-EB6	4/6/2015	WB6-150406-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.595	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
FIELD BLANK	4/9/2015	W90-150409F	< 0.2 U	0.402	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
FIELD BLANK	4/17/2015	W59-150417F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/2/2015	VTRP150403C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/2/2015	VTRP150406B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/3/2015	VTRP150406C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/6/2015	VTRP150407C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/6/2015	VTRP150413B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/7/2015	VTRP150408C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/8/2015	VTRP150409C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/9/2015	VTRP150413C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/13/2015	VTRP150414C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/13/2015	VTRP150414B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/15/2015	VTRP150416C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/16/2015	VTRP150420C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/16/2015	VTRP150417B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/17/2015	VTRP150420B	< 0.2 U	0.737	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/22/2015	VTRP150424B	< 0.2 U	0.684	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/22/2015	VTRP150424C	< 0.2 U	0.61	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/24/2015	VTRP150427C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/27/2015	VTRP150428C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/28/2015	VTRP150429T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/7/2015	VTRP150508B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/13/2015	VTRP150514T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/28/2015	VTRP150601C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/29/2015	VTRP150601B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	6/18/2015	VTRP150619B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	6/18/2015	VTRP150619C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
WS-NPW	4/13/2015	WNPW150413-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U

Surface Water Analytical Data

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill ---Surface Water Elevation Data-Staff Gage Measurements

Contact Person: Sandy Jimenez (206) 477-5224

Staff Gage	Location	Date	Reference Elevation Staff Gage 0' (msl)	Reference Elevation Top of Peizo (msl)	Depth to Water (Peizometer) (feet)	Staff Gage Reading (feet)	Surface Water Elevation (msl)	Comment
SW-G1	SW-W1	4/21/2015	415.38	418.84		0.84	416.22	
SW-G1	SW-W1	5/19/2015	415.38	418.84		0.86	416.24	
SW-G1	SW-W1	6/19/2015	415.38	418.84	2.9		415.94	
SW-G2	SW-N1	4/21/2015	355.68	358.21		0.47	356.15	
SW-G2	SW-N1	5/19/2015	355.68	358.21		0.36	356.04	
SW-G2	SW-N1	6/19/2015	355.68	358.21	3.15		355.06	
SW-G3	SW -V	4/21/2015	466.46	469.88			NA	Trees
SW-G3	SW -V	5/19/2015	466.46	469.88			NA	Trees
SW-G3	SW -V	6/19/2015	466.46	469.88	5.38		464.50	
SW-G4	Upstream of SW-E1	4/21/2015	502.41	505.85		0.21	502.62	
SW-G4	Upstream of SW-E1	5/19/2015	502.41	505.85	4.66		501.19	
SW-G4	Upstream of SW-E1	6/19/2015	502.41	505.85	6.25		499.60	
SW-G5	SW-E1	4/21/2015	486.92	490.34		0.56	487.48	
SW-G5	SW-E1	5/19/2015	486.92	490.34	3.15		487.19	
SW-G5	SW-E1	6/22/2015	486.92	490.34	4.97		485.37	
SW-G6	Upstream of SW-GS1	4/21/2015	490.72	494.12		0.47	491.19	
SW-G6	Upstream of SW-GS1	5/19/2015	490.72	494.12		0.28	491.00	
SW-G6	Upstream of SW-GS1	6/22/2015	490.72	494.12	6.37		487.75	
SW-G7	SW-S2	4/21/2015	453.03	456.41		0.37	453.40	
SW-G7	SW-S2	5/19/2015	453.03	456.41		0.13	453.16	
SW-G7	SW-S2	6/22/2015	453.03	456.41	7.25		449.16	
SW-G8	Upstream of SW-S1	4/21/2015	510.61	515.56		0.50	511.11	
SW-G8	Upstream of SW-S1	5/19/2015	510.61	515.56		0.40	511.01	
SW-G8	Upstream of SW-S1	6/22/2015	510.61	515.56	4.68		510.88	
SW-G9	SW-S1	4/21/2015	490.93	494.35		0.69	491.62	
SW-G9	SW-S1	5/19/2015	490.93	494.35		0.58	491.51	
SW-G9	SW-S1	6/22/2015	490.93	494.35	4.05		490.30	

NR = No Reading Taken

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Surface Water Field Parameters

Contact Person: ~~Sandy Jimenez (206) 477-5224~~

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature	Turbidity	Oxygen, Dissolved
			(std. Units)	(umho/cm)	(°C)	(NTU)	(mg/L)
SW-E1	4/21/2015	SE1-150421Q	6.84	69	10.2	1.93	8.43
SW-GS1	4/22/2015	SGS1150422Q	7.32	100	10.6	8.51	7.92
SW-GS1	5/19/2015	SGS1150519M	6.77	125	13.7	4.67	8.73
SW-MC	4/22/2015	SMC-150422Q	7.54	100	10.3	1.62	10.61
SW-MC	5/21/2015	SMC-150521M	7.45	110	13.4	2.26	9.56
SW-N1	4/21/2015	SN1-150421Q	7.24	97	10.8	1.94	9.63
SW-N1	5/19/2015	SN1-150519M	7.4	380	12.5	9.93	9.38
SW-N1	6/22/2015	SN1-150622M	7.76	120	12.1	1.98	10.09
SW-N4	4/21/2015	SN4-150421D	7.38	95	14.5	1.33	9.44
SW-N4	4/21/2015	SN4-150421Q	7.38	95	14.5	1.33	9.44
SW-N4	5/19/2015	SN4-150519M	7.56	520	14.4	0.83	9.38
SW-S1	4/22/2015	SS1-150422Q	6.83	49	9.4	3.16	7.05
SW-S1	5/19/2015	SS1-150519M	6.71	53	12.4	2.08	7.91
SW-S2	4/22/2015	SS2-150422Q	6.7	95	10.8	6.09	7.76
SW-S2	5/19/2015	SS2-150519M	6.35	115	12.9	3.54	6.83
SW-SL3	4/22/2015	SSL3150422Q	7.12	125	6.5	1.99	8.39
SW-SL3	4/22/2015	SSL3150422P	7.25	130	10.3	2.01	9.02
SW-SLP1	4/22/2015	SLP1150422P	7.06	120	9.5	86.4	9.9
SW-SLP1	5/21/2015	SLP1150521P	7.27	290	13.6	8.48	9.18
SW-SLP2	4/22/2015	SLP2150422P	7.08	160	10.7	6.15	9.94
SW-SLP2	5/21/2015	SLP2150521P	7.52	300	14.1	4.45	8.84
SW-SLP2	6/24/2015	SLP2150624P	8.09	255	16.6	13.1	10.39
SW-W	4/22/2015	SW--150422Q	6.86	95	10.6	3.49	8.6
SW-W1	4/21/2015	SW1-150421Q	7.26	120	11.7	1.51	10.34
SW-W1	5/19/2015	SW1-150519M	7.5	330	14	2.14	9.55
SW-W1	6/22/2015	SW1-150622M	7.93	145	12.2	0.53	10.02
SW-W2	4/22/2015	SW2-150422Q	6.68	51	9.5	0.77	8.49
SW-W2	5/19/2015	SW2-150519M	6.48	52	11.6	1.19	6.05

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Surface Water Conventional Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO3) (mg/L)	Ammonia, (NH3) (mg/L)	Biological Oxygen Demand (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Coliforms, Fecal (CFU/100mL)	Coliforms, Total (CFU/100mL)	Cyanide (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate- Nitrogen, (NO3 as N) (mg/L)
SW-E1	4/21/2015	SE1-150421Q	18.4	0.0174	< 2 U	5 T	1.46	1	5	< 0.02 U	< 0.1 U	18	0.249
SW-GS1	4/22/2015	SGS1150422Q	43.8	0.0117	< 2 U	< 5 U	0.768	80	99	< 0.02 U	< 0.1 U	44.7	0.114
SW-GS1	5/19/2015	SGS1150519M	58.1	0.0329		< 5 U	1.01	61	100			55.1	0.0776
SW-MC	4/22/2015	SMC-150422Q	39.6	< 0.01 U	< 2 U	< 5 U	2.47	55	66	< 0.02 U	< 0.1 U	41	0.659
SW-MC	5/21/2015	SMC-150521M	41.8	< 0.01 U		5.7 T	2.5	12	500			40.7	0.397
SW-N1	4/21/2015	SN1-150421Q	39.3	< 0.01 U	< 2 U	7 T	2.42	3	340	< 0.02 U	< 0.1 U	37.5	0.69
SW-N1	5/19/2015	SN1-150519M	43.9	< 0.01 U		12 T	2.57	25	70			41.5	0.446
SW-N1	6/22/2015	SN1-150622M	54.9 J	0.0138		< 5 U	2.22	70	600			48.7	0.108
SW-N4	4/21/2015	SN4-150421Q	41.2	0.0114	< 2 U	10 T	1.58	1	9	< 0.02 U	< 0.1 U	42.6	0.293
SW-N4	4/21/2015	SN4-150421D	41.2	0.0107	< 2 U	10 T	1.58	3	5	< 0.02 U	< 0.1 U	42.8	0.284
SW-N4	5/19/2015	SN4-150519M	45.7	< 0.01 U		11 T	3.68	< 1 U	45			45.2	0.3
SW-S1	4/22/2015	SS1-150422Q	17.5	< 0.01 U	< 2 U	5.7 T	2.18	10	25	< 0.02 U	< 0.1 U	15.3	0.182
SW-S1	5/19/2015	SS1-150519M	19.7	< 0.01 U		5.5 T	2.2	21	40			17.7	0.0639
SW-S2	4/22/2015	SS2-150422Q	41.8	< 0.01 U	< 2 U	7.3 T	0.573	9	16	< 0.02 U	< 0.1 U	39.2	0.0646
SW-S2	5/19/2015	SS2-150519M	52.4	0.0113		8.9 T	0.491	3	24			47.6	< 0.01 U
SW-SL3	4/22/2015	SSL3150422Q	61.8	< 0.01 U	< 2 U	8.9 T	1.76	46	69	< 0.02 U	< 0.1 U	61.6	0.0658
SW-SL3	4/22/2015	SSL3150422P		< 0.01 U	< 2 U			51	96				
SW-SLP1	4/22/2015	SLP1150422P		0.0548		3.89		40	290				
SW-SLP1	5/21/2015	SLP1150521P		0.194	< 2 U			1	150				
SW-SLP2	4/22/2015	SLP2150422P		0.0121	< 2 U			50	140				
SW-SLP2	5/21/2015	SLP2150521P		0.0113	< 2 U			71	1600				
SW-SLP2	6/24/2015	SLP2150624P		0.0166	< 2 U			5	2300				
SW-W	4/22/2015	SW--150422Q	35.7	0.0258	< 2 U	8.2 T	3.24	70	540	< 0.02 U	< 0.1 U	34.9	0.681
SW-W1	4/21/2015	SW1-150421Q	43	< 0.01 U	< 2 U	< 5 U	3.51	19	49	< 0.02 U	< 0.1 U	43.4	0.975
SW-W1	5/19/2015	SW1-150519M	50.8	< 0.01 U		< 5 U	3.7	41	160			48.4	0.803
SW-W1	6/22/2015	SW1-150622M	62.2			< 5 U	3.86	90	700			55.9	1.04
SW-W2 Duplicate	4/22/2015	SW2-150422D	18.3	< 0.01 U	< 2 U	< 5 U	2.16	1	10	< 0.02 U	< 0.1 U	17.6	0.236
SW-W2	4/22/2015	SW2-150422Q	18.1	< 0.01 U	< 2 U	< 5 U	2.16	2	10	< 0.02 U	< 0.1 U	17	0.236
SW-W2	5/19/2015	SW2-150519M	20.2	< 0.01 U		6.9 T	2.1	19	24			17.9	0.027 T

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Surface Water Conventional Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Nitrate+Nitrite (NO3+NO2 as N) (mg/L)	Soluble Reactive Phosphorus (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Total Dissolved Solids (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)	Turbidity (NTU)
SW-E1	4/21/2015	SE1-150421Q	0.249	< 0.01 U	51.6	1.81	39.8	0.18 T	2.13	42.7	5.58	4.98
SW-GS1	4/22/2015	SGS1150422Q	0.114	< 0.01 U	108	6.43	72.2	0.14 T	2.76	71.4	3.4	7.29
SW-GS1	5/19/2015	SGS1150519M	0.0776	< 0.01 U	138	6.43	90.9	0.204	2.72	111	4.3	4.49
SW-MC	4/22/2015	SMC-150422Q	0.669	< 0.01 U	107	4.87	70	0.213	3.08	66.3	1.9	1.37
SW-MC	5/21/2015	SMC-150521M	0.39	< 0.01 U	110	4.17	80	0.26	2.14	123	1.4	1.59
SW-N1	4/21/2015	SN1-150421Q	0.69	< 0.01 U	105	4.82	49.2	0.262	2.91	71.9	1.99	1.96
SW-N1	5/19/2015	SN1-150519M	0.446	< 0.01 U	113	4.43	99.6	0.366	2.85	108	34.4	15.1
SW-N1	6/22/2015	SN1-150622M	0.108	0.0107	127	4.35	93.3 J	0.485	3.72	109 J	51.4	8.02
SW-N4	4/21/2015	SN4-150421Q	0.293	< 0.01 U	106	5.37	73.4	0.389	5.22	73.9	1.7 T	2.22
SW-N4	4/21/2015	SN4-150421D	0.295	< 0.01 U	106	5.41	72.8	0.46	5.14	74.9	1.46	1.84
SW-N4	5/19/2015	SN4-150519M	0.3	< 0.01 U	123	5.3	80.2	0.408	3.83	86.3	< 1 U	0.742
SW-S1	4/22/2015	SS1-150422Q	0.182	< 0.01 U	52.1	1.85	38.7	0.239	2.78	38.7	1.3	0.827
SW-S1	5/19/2015	SS1-150519M	0.0639	< 0.01 U	55.7	0.919	48.4	0.248	3.34	50.9	1.5	1.06
SW-S2	4/22/2015	SS2-150422Q	0.0646	< 0.01 U	99.1	4.93	61.1	0.242	3.13	60.9	1.8	5.69
SW-S2	5/19/2015	SS2-150519M	< 0.01 U	0.0118	117	2.93	78.1	0.288	3.84	82.6	1.5	3.41
SW-SL3	4/22/2015	SSL3150422Q	0.0658	< 0.01 U	144	5.81	86.7	0.266	4.13	82.2	< 1 U	1.41
SW-SL3	4/22/2015	SSL3150422P									6	1.24
SW-SLP1	4/22/2015	SLP1150422P									38.2	68.9
SW-SLP1	5/21/2015	SLP1150521P									3.89	6.78
SW-SLP2	4/22/2015	SLP2150422P									1.4	5.23
SW-SLP2	5/21/2015	SLP2150521P									< 1 U	3.26
SW-SLP2	6/24/2015	SLP2150624P									1.3	11.9
SW-W	4/22/2015	SW--150422Q	0.697	< 0.01 U	103	4.19	73.9	0.388	4.11	79.1	2.6	3.27
SW-W1	4/21/2015	SW1-150421Q	0.985	< 0.01 U	121	5.45	79.7	0.17 T	2.21	80.4	2.36	1.28
SW-W1	5/19/2015	SW1-150519M	0.803	< 0.01 U	135	4.84	88.5	0.231	1.75	105	3	2.09
SW-W1	6/22/2015	SW1-150622M	1.04	0.0128	151	4.68	105	0.13 T	1.5	110	< 1 U	0.638
SW-W2 Duplicate	4/22/2015	SW2-150422D	0.236	< 0.01 U	54.4	1.9	41.7	0.15 T	2.83	40.9	< 1 U	1.04
SW-W2	4/22/2015	SW2-150422Q	0.236	< 0.01 U	54.5	1.9	45.5	0.18 T	2.62	41	1.7	0.886
SW-W2	5/19/2015	SW2-150519M	0.027 T	< 0.01 U	55.9	1.02	47	0.257	2.74	52.7	2.2	1.16

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Aluminum, dissolved	Aluminum, total	Antimony, dissolved	Antimony, total	Arsenic, dissolved	Arsenic, total	Barium, dissolved	Barium, total	Beryllium, dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SW-E1	4/21/2015	SE1-150421Q	0.05	0.221	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00309	0.00514	<0.001 U
SW-GS1	4/22/2015	SGS1150422Q	<0.02 U	0.397	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00384	0.00625	<0.001 U
SW-GS1	5/19/2015	SGS1150519M	0.0205	0.239 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00304	0.00442	<0.001 U
SW-MC	4/22/2015	SMC-150422Q	<0.02 U	0.091	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00398	0.00483	<0.001 U
SW-MC	5/21/2015	SMC-150521M	<0.02 U	0.0867 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00348	0.00402	<0.001 U
SW-N1	4/21/2015	SN1-150421Q	<0.02 U	0.0992	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00404	0.00456	<0.001 U
SW-N1	5/19/2015	SN1-150519M	<0.02 U	1.03 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00376	0.00949	<0.001 U
SW-N1	6/22/2015	SN1-150622M	0.0215	0.645	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.0034	0.00737	<0.001 U
SW-N4	4/21/2015	SN4-150421D	<0.02 U	0.0463	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00338	0.00407	<0.001 U
SW-N4	4/21/2015	SN4-150421Q	<0.02 U	0.0471	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00336	0.00409	<0.001 U
SW-N4	5/19/2015	SN4-150519M	<0.02 U	0.02 DU	<0.001 U	<0.001 U	<0.001 U	0.00101	0.00345	0.00367	<0.001 U
SW-S1	4/22/2015	SS1-150422Q	0.0347	0.055	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00637	0.00653	<0.001 U
SW-S1	5/19/2015	SS1-150519M	0.0493	0.085 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00718	0.00774	<0.001 U
SW-S2	4/22/2015	SS2-150422Q	0.138	0.314	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.0059	0.00654	<0.001 U
SW-S2	5/19/2015	SS2-150519M	0.0593	0.133 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00985	0.0101	<0.001 U
SW-SL3	4/22/2015	SSL3150422P									
SW-SL3	4/22/2015	SSL3150422Q	<0.02 U	0.0468	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00711	0.00807	<0.001 U
SW-SLP1	4/22/2015	SLP1150422P									
SW-SLP1	5/21/2015	SLP1150521P									
SW-SLP2	4/22/2015	SLP2150422P									
SW-SLP2	5/21/2015	SLP2150521P									
SW-SLP2	6/24/2015	SLP2150624P									
SW-W	4/22/2015	SW--150422Q	0.0549	0.163	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00497	0.00552	<0.001 U
SW-W1	4/21/2015	SW1-150421Q	<0.02 U	0.0796	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.0052	0.00643	<0.001 U
SW-W1	5/19/2015	SW1-150519M	<0.02 U	0.0867 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00504	0.00595	<0.001 U
SW-W1	6/22/2015	SW1-150622M	<0.02 U	0.0219	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00551	0.00581	<0.001 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	0.0352	0.0639	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00698	0.00796	<0.001 U
SW-W2	4/22/2015	SW2-150422Q	0.0366	0.0551	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00718	0.00782	<0.001 U
SW-W2	5/19/2015	SW2-150519M	0.0461	0.0805 D	<0.001 U	<0.001 U	<0.001 U	<0.001 U	0.00751	0.00813	<0.001 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Beryllium, total (mg/L)	Cadmium, dissolved (mg/L)	Cadmium, total (mg/L)	Calcium, dissolved (mg/L)	Calcium, total (mg/L)	Chromium, dissolved (mg/L)	Chromium, total (mg/L)	Cobalt, dissolved (mg/L)	Cobalt, total (mg/L)
SW-E1	4/21/2015	SE1-150421Q	<0.001 DU	<0.002 U	<0.002 U	4.75	5.25	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-GS1	4/22/2015	SGS1150422Q	<0.001 DU	<0.002 U	<0.002 U	12.1	11.9	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-GS1	5/19/2015	SGS1150519M	<0.001 U	<0.002 U	<0.002 U	13.5	14.4	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-MC	4/22/2015	SMC-150422Q	<0.001 DU	<0.002 U	<0.002 U	10.1	10.4	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-MC	5/21/2015	SMC-150521M	<0.001 U	<0.002 U	<0.002 U	9.32	10.2	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N1	4/21/2015	SN1-150421Q	<0.001 U	<0.002 U	<0.002 U	9.61	9.7	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N1	5/19/2015	SN1-150519M	<0.001 U	<0.002 U	<0.002 U	9.29	10.3	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N1	6/22/2015	SN1-150622M	<0.001 U	<0.002 U	<0.002 U	11.9	11.9 D	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N4	4/21/2015	SN4-150421D	<0.001 DU	<0.002 U	<0.002 U	10.3	10.9	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N4	4/21/2015	SN4-150421Q	<0.001 DU	<0.002 U	<0.002 U	10.3	10.9	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-N4	5/19/2015	SN4-150519M	<0.001 U	<0.002 U	<0.002 U	10.4	11.3	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-S1	4/22/2015	SS1-150422Q	<0.001 U	<0.002 U	<0.002 U	4.47	4.39	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-S1	5/19/2015	SS1-150519M	<0.001 U	<0.002 U	<0.002 U	4.52	4.95	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-S2	4/22/2015	SS2-150422Q	<0.001 U	<0.002 U	<0.002 U	11.1	10.3	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-S2	5/19/2015	SS2-150519M	<0.001 U	<0.002 U	<0.002 U	11.6	12.2	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-SL3	4/22/2015	SSL3150422P	<0.001 DU	<0.002 U	<0.002 U	15.3	16	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-SL3	4/22/2015	SSL3150422Q									
SW-SLP1	4/22/2015	SLP1150422P									
SW-SLP1	5/21/2015	SLP1150521P									
SW-SLP2	4/22/2015	SLP2150422P									
SW-SLP2	5/21/2015	SLP2150521P	<0.001 DU	<0.002 U	<0.002 U	9.17	9.4	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-SLP2	6/24/2015	SLP2150624P									
SW-W	4/22/2015	SW--150422Q									
SW-W1	4/21/2015	SW1-150421Q									
SW-W1	5/19/2015	SW1-150519M									
SW-W1	6/22/2015	SW1-150622M	<0.001 U	<0.002 U	<0.002 U	14.3	14.2 D	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	<0.001 DU	<0.002 U	<0.002 U	4.87	5.11	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-W2	4/22/2015	SW2-150422Q	<0.001 DU	<0.002 U	<0.002 U	4.95	4.98	<0.005 U	<0.005 U	<0.003 U	<0.003 U
SW-W2	5/19/2015	SW2-150519M	<0.001 U	<0.002 U	<0.002 U	4.69	5.07	<0.005 U	<0.005 U	<0.003 U	<0.003 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Copper, dissolved	Copper, total	Iron, dissolved	Iron, total	Lead, dissolved	Lead, total	Magnesium, dissolved	Magnesium, total	Manganese, dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
SW-E1	4/21/2015	SE1-150421Q	<0.002 U	<0.002 DU	0.0504	0.206	<0.001 U	<0.001 U	1.16	1.18	0.0275
SW-GS1	4/22/2015	SGS1150422Q	0.0023	0.00324 D	0.027 T	0.433	<0.001 U	<0.001 U	3.71	3.67	0.0286
SW-GS1	5/19/2015	SGS1150519M	<0.002 U	0.0026	0.048 T	0.343	<0.001 U	<0.001 U	4.56	4.64	0.0515
SW-MC	4/22/2015	SMC-150422Q	0.00231	0.00235 D	0.041 T	0.127	<0.001 U	<0.001 U	3.41	3.62	0.00339
SW-MC	5/21/2015	SMC-150521M	<0.002 U	<0.002 U	0.0502	0.126	<0.001 U	<0.001 U	3.77	3.72	0.00216
SW-N1	4/21/2015	SN1-150421Q	0.00204	0.00246	0.043 T	0.136	<0.001 U	<0.001 U	3.55	3.22	0.00783
SW-N1	5/19/2015	SN1-150519M	<0.002 U	0.00236	0.0599	0.904	<0.001 U	<0.001 U	3.77	3.81	0.0128
SW-N1	6/22/2015	SN1-150622M	<0.002 U	0.00222	0.17	0.831	<0.001 U	<0.001 U	4.5	4.59 D	0.035
SW-N4	4/21/2015	SN4-150421D	0.00641	0.00746 D	0.0567	0.128	<0.001 U	<0.001 U	3.78	3.77	0.00487
SW-N4	4/21/2015	SN4-150421Q	0.00632	0.0077 D	0.0558	0.136	<0.001 U	<0.001 U	3.84	3.72	0.00465
SW-N4	5/19/2015	SN4-150519M	0.00229	0.00288	0.128	0.194	<0.001 U	<0.001 U	4.18	4.11	0.00382
SW-S1	4/22/2015	SS1-150422Q	<0.002 U	<0.002 U	0.014 T	0.029 T	<0.001 U	<0.001 U	1.05	1.06	0.00335
SW-S1	5/19/2015	SS1-150519M	<0.002 U	<0.002 U	0.036 T	0.0582	<0.001 U	<0.001 U	1.22	1.28	0.00923
SW-S2	4/22/2015	SS2-150422Q	0.00213	0.00229	0.166	0.303	<0.001 U	<0.001 U	3.43	3.28	0.0229
SW-S2	5/19/2015	SS2-150519M	<0.002 U	<0.002 U	0.244	0.363	<0.001 U	<0.001 U	4.11	4.17	0.119
SW-SL3	4/22/2015	SSL3150422P		0.00231							
SW-SL3	4/22/2015	SSL3150422Q	0.00214	0.00227 D	0.049 T	0.126	<0.001 U	<0.001 U	5.02	5.27	0.0104
SW-SLP1	4/22/2015	SLP1150422P		0.0103							
SW-SLP1	5/21/2015	SLP1150521P		0.00309							
SW-SLP2	4/22/2015	SLP2150422P		0.00346							
SW-SLP2	5/21/2015	SLP2150521P		<0.002 U							
SW-SLP2	6/24/2015	SLP2150624P		<0.002 U							
SW-W	4/22/2015	SW--150422Q	<0.002 U	<0.002 DU	0.363	0.555	<0.001 U	<0.001 U	2.63	2.76	0.0359
SW-W1	4/21/2015	SW1-150421Q	<0.002 U	<0.002 DU	0.025 T	0.13	<0.001 U	<0.001 U	3.65	3.61	0.00117
SW-W1	5/19/2015	SW1-150519M	<0.002 U	<0.002 U	0.017 T	0.109	<0.001 U	<0.001 U	4.3	4.22	<0.001 U
SW-W1	6/22/2015	SW1-150622M	<0.002 U	<0.002 U	<0.01 U	0.021 T	<0.001 U	<0.001 U	5.02	4.96 D	<0.001 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	<0.002 U	<0.002 DU	0.014 T	0.035 T	<0.001 U	<0.001 U	1.08	1.18	0.00173
SW-W2	4/22/2015	SW2-150422Q	<0.002 U	<0.002 DU	0.013 T	0.032 T	<0.001 U	<0.001 U	1.11	1.12	0.00183
SW-W2	5/19/2015	SW2-150519M	<0.002 U	<0.002 U	0.024 T	0.0501	<0.001 U	<0.001 U	1.22	1.26	0.00588

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, dissolved (mg/L)	Nickel, total (mg/L)	Potassium, dissolved (mg/L)	Potassium, total (mg/L)	Selenium, dissolved (mg/L)	Selenium, total (mg/L)	Silver, dissolved (mg/L)
SW-E1	4/21/2015	SE1-150421Q	0.169	0.0001 U	<0.01 U	<0.01 U	0.39 T	0.46 DT	<0.001 U	<0.001 U	<0.003 U
SW-GS1	4/22/2015	SGS1150422Q	0.0376	0.0001 U	<0.01 U	<0.01 U	1.12	1.09 D	<0.001 U	<0.001 U	<0.003 U
SW-GS1	5/19/2015	SGS1150519M	0.0942	0.0001 U	<0.01 U	<0.01 U	1.08 D	1.14	<0.001 U	<0.001 U	<0.003 U
SW-MC	4/22/2015	SMC-150422Q	0.00879	0.0001 U	<0.01 U	<0.01 U	0.847 D	0.856 D	<0.001 U	<0.001 U	<0.003 U
SW-MC	5/21/2015	SMC-150521M	0.00613	0.0001 U	<0.01 U	<0.01 U	0.504 D	0.44 T	<0.001 U	<0.001 U	<0.003 U
SW-N1	4/21/2015	SN1-150421Q	0.0147	0.0001 U	<0.01 U	<0.01 U	1.13	0.886	<0.001 U	<0.001 U	<0.003 U
SW-N1	5/19/2015	SN1-150519M	0.0651	0.0001 U	<0.01 U	<0.01 U	0.553 D	0.544	<0.001 U	<0.001 U	<0.003 U
SW-N1	6/22/2015	SN1-150622M	0.0887	0.0001 U	<0.01 U	<0.01 U	0.33 T	0.3 T	<0.001 U	<0.001 U	<0.003 U
SW-N4	4/21/2015	SN4-150421D	0.0466	0.0001 U	<0.01 U	<0.01 U	1.46	1.54 D	<0.001 U	<0.001 U	<0.003 U
SW-N4	4/21/2015	SN4-150421Q	0.0483	0.0001 U	<0.01 U	<0.01 U	1.48	1.59 D	<0.001 U	<0.001 U	<0.003 U
SW-N4	5/19/2015	SN4-150519M	0.0144	0.0001 U	<0.01 U	<0.01 U	1.37 D	1.38	<0.001 U	<0.001 U	<0.003 U
SW-S1	4/22/2015	SS1-150422Q	0.00583	0.0001 U	<0.01 U	<0.01 U	0.45 T	0.46 T	<0.001 U	<0.001 U	<0.003 U
SW-S1	5/19/2015	SS1-150519M	0.0171	0.0001 U	<0.01 U	<0.01 U	0.31 DT	0.33 T	<0.001 U	<0.001 U	<0.003 U
SW-S2	4/22/2015	SS2-150422Q	0.0263	0.0001 U	<0.01 U	<0.01 U	0.579	0.556	<0.001 U	<0.001 U	<0.003 U
SW-S2	5/19/2015	SS2-150519M	0.114	0.0001 U	<0.01 U	<0.01 U	0.651 D	0.657	<0.001 U	<0.001 U	<0.003 U
SW-SL3	4/22/2015	SSL3150422P	0.0175	0.0001 U	<0.01 U	<0.01 U	1.05	0.979 D	<0.001 U	<0.001 U	<0.003 U
SW-SL3	4/22/2015	SSL3150422Q									
SW-SLP1	4/22/2015	SLP1150422P									
SW-SLP1	5/21/2015	SLP1150521P									
SW-SLP2	4/22/2015	SLP2150422P									
SW-SLP2	5/21/2015	SLP2150521P	0.0384	0.0001 U	<0.01 U	<0.01 U	0.836	0.781 D	<0.001 U	<0.001 U	<0.003 U
SW-SLP2	6/24/2015	SLP2150624P									
SW-W	4/22/2015	SW--150422Q									
SW-W1	4/21/2015	SW1-150421Q									
SW-W1	5/19/2015	SW1-150519M									
SW-W1	6/22/2015	SW1-150622M	0.00178	0.0001 U	<0.01 U	<0.01 U	0.961	0.901	<0.001 U	<0.001 U	<0.003 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	0.0032	0.0001 U	<0.01 U	<0.01 U	0.46 T	0.47 DT	<0.001 U	<0.001 U	<0.003 U
SW-W2	4/22/2015	SW2-150422Q	0.00306	0.0001 U	<0.01 U	<0.01 U	0.556	0.47 DT	<0.001 U	<0.001 U	<0.003 U
SW-W2	5/19/2015	SW2-150519M	0.00918	0.0001 U	<0.01 U	<0.01 U	0.3 DU	0.3 U	<0.001 U	<0.001 U	<0.003 U

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Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Silver, total (mg/L)	Sodium, dissolved (mg/L)	Sodium, total (mg/L)	Thallium, dissolved (mg/L)	Thallium, total (mg/L)	Tin, dissolved (mg/L)	Tin, total (mg/L)	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)
SW-E1	4/21/2015	SE1-150421Q	<0.003 U	2.52	2.68	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-GS1	4/22/2015	SGS1150422Q	<0.003 U	2.8	2.75	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-GS1	5/19/2015	SGS1150519M	<0.003 U	3.92	3.91	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-MC	4/22/2015	SMC-150422Q	<0.003 U	4.36	4.59	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-MC	5/21/2015	SMC-150521M	<0.003 U	4.99	4.91	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-N1	4/21/2015	SN1-150421Q	<0.003 U	3.99	4.15	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-N1	5/19/2015	SN1-150519M	<0.003 U	4.9	4.91	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-N1	6/22/2015	SN1-150622M	<0.003 U	4.83	4.74 D	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	0.00247
SW-N4	4/21/2015	SN4-150421D	<0.003 U	2.71	2.95	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-N4	4/21/2015	SN4-150421Q	<0.003 U	2.71	2.92	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-N4	5/19/2015	SN4-150519M	<0.003 U	4.28	4.19	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-S1	4/22/2015	SS1-150422Q	<0.003 U	2.89	2.89	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-S1	5/19/2015	SS1-150519M	<0.003 U	3.19	3.23	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-S2	4/22/2015	SS2-150422Q	<0.003 U	2.66	2.53	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-S2	5/19/2015	SS2-150519M	<0.003 U	3.02	3.02	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-SL3	4/22/2015	SSL3150422P	<0.003 U	4.28	4.52	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-SL3	4/22/2015	SSL3150422Q									
SW-SLP1	4/22/2015	SLP1150422P									
SW-SLP1	5/21/2015	SLP1150521P									
SW-SLP2	4/22/2015	SLP2150422P									
SW-SLP2	5/21/2015	SLP2150521P	<0.003 U	5.12	5.25	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-SLP2	6/24/2015	SLP2150624P									
SW-W	4/22/2015	SW--150422Q									
SW-W1	4/21/2015	SW1-150421Q									
SW-W1	5/19/2015	SW1-150519M									
SW-W1	6/22/2015	SW1-150622M	<0.003 U	5.69	5.53 D	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	<0.003 U	3.09	3.29	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-W2	4/22/2015	SW2-150422Q	<0.003 U	3.27	3.21	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U
SW-W2	5/19/2015	SW2-150519M	<0.003 U	3.2	3.2	<0.001 U	<0.001 U	<0.01 U	<0.01 U	<0.002 U	<0.002 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Surface Water Metal Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
SW-E1	4/21/2015	SE1-150421Q	<0.004 U	<0.004 U
SW-GS1	4/22/2015	SGS1150422Q	<0.004 U	<0.004 U
SW-GS1	5/19/2015	SGS1150519M	<0.004 U	<0.004 U
SW-MC	4/22/2015	SMC-150422Q	<0.004 U	0.00413
SW-MC	5/21/2015	SMC-150521M	<0.004 U	<0.004 U
SW-N1	4/21/2015	SN1-150421Q	0.00461	0.00509
SW-N1	5/19/2015	SN1-150519M	<0.004 U	0.0105
SW-N1	6/22/2015	SN1-150622M	<0.004 U	0.0105
SW-N4	4/21/2015	SN4-150421D	0.0139	0.0157
SW-N4	4/21/2015	SN4-150421Q	0.013	0.0152
SW-N4	5/19/2015	SN4-150519M	0.0107	0.0108
SW-S1	4/22/2015	SS1-150422Q	<0.004 U	<0.004 U
SW-S1	5/19/2015	SS1-150519M	<0.004 U	<0.004 U
SW-S2	4/22/2015	SS2-150422Q	0.00423	<0.004 U
SW-S2	5/19/2015	SS2-150519M	0.0076	0.00664
SW-SL3	4/22/2015	SSL3150422P		0.00404
SW-SL3	4/22/2015	SSL3150422Q	0.00439	0.00486
SW-SLP1	4/22/2015	SLP1150422P		0.0602
SW-SLP1	5/21/2015	SLP1150521P		0.0218
SW-SLP2	4/22/2015	SLP2150422P		0.0249
SW-SLP2	5/21/2015	SLP2150521P		0.0228
SW-SLP2	6/24/2015	SLP2150624P		0.0103
SW-W	4/22/2015	SW--150422Q	<0.004 U	<0.004 U
SW-W1	4/21/2015	SW1-150421Q	<0.004 U	<0.004 U
SW-W1	5/19/2015	SW1-150519M	<0.004 U	<0.004 U
SW-W1	6/22/2015	SW1-150622M	<0.004 U	<0.004 U
SW-W2 Duplicate	4/22/2015	SW2-150422D	<0.004 U	<0.004 U
SW-W2	4/22/2015	SW2-150422Q	<0.004 U	<0.004 U
SW-W2	5/19/2015	SW2-150519M	<0.004 U	<0.004 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Surface Water Pesticide/Herbicide Analytical Data

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	2,4,5-T 93-76-5 (ug/L)	2,4,5-TP 93-72-1 (ug/L)	2,4-D 94-75-7 (ug/L)	Dinoseb 88-85-7 (ug/L)	Endrin 72-20-8 (ug/L)	Lindane 58-89-9 (ug/L)	Methoxy- chlor 72-43-5 (ug/L)	Toxaphene 8001-35-2 (ug/L)	4-Methyl- phenol 106-44-5 (ug/L)	alpha Terpineol 98-55-5 (ug/L)	Benzoic Acid 65-85-0 (ug/L)	Phenol 108-95-2 (ug/L)
SW-E1	4/21/2015	SE1-150421O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-GS1	4/22/2015	SGS1150422O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-GS1	5/19/2015	SGS1150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-MC	4/22/2015	SMC-150422Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-MC	5/21/2015	SMC-150521M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N1	4/21/2015	SN1-150421O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N1	5/19/2015	SN1-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N1	6/22/2015	SN1-150622M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N4	4/21/2015	SN4-150421O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N4	4/21/2015	SN4-150421D	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N4	5/19/2015	SN4-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S1	4/22/2015	SS1-150422Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S1	5/19/2015	SS1-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S2	4/22/2015	SS2-150422O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S2	5/19/2015	SS2-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-SL3	4/22/2015	SSL3150422O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-SL3	4/22/2015	SSL3150422P									< 10 U	< 5 U	< 50 U	< 4 U
SW-SLP1	4/22/2015	SLP1150422P									< 10 U	< 5 U	< 50 U	< 4 U
SW-SLP1	5/21/2015	SLP1150521P									< 10 GU	< 5 GU	< 50 GU	< 4 GU
SW-SLP2	4/22/2015	SLP2150422P									< 10 U	< 5 U	< 50 U	< 4 U
SW-SLP2	5/21/2015	SLP2150521P									< 10 U	< 5 U	< 50 U	< 4 U
SW-SLP2	6/24/2015	SLP2150624P									< 10 U	< 5 U	< 50 U	< 4 U
SW-W	4/22/2015	SW--150422O	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W1	4/21/2015	SW1-150421Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W1	5/19/2015	SW1-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W2 Duplicate	4/22/2015	SW2-150422D	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W2	4/22/2015	SW2-150422Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W2	5/19/2015	SW2-150519M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-W1	6/22/2015	SW1-150622M	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				

Leachate Analytical Data

Leachate Monitoring Activities 2nd Quarter 2015

Station ID	Date	Activity	Sample ID	Comment
API	4/15/15	Monthly Characterization Sample	LAPI150415M	
API	5/13/15	Monthly Characterization Sample	LAPI150513M	
API	6/10/15	Monthly Characterization Sample	LAPI150610M	
LEPS	4/14/15	Permit Sample	LEPS150414P	
LEPS	4/15/15	Monthly Characterization Sample	LEPS150414M	
LEPS	5/12/15	Permit Sample	LEPS150512P	
LEPS	5/13/15	Monthly Characterization Sample	LEPS150512M	
LEPS	6/9/15	Permit Sample	LEPS150609P	
LEPS	6/9/15	Monthly Characterization Sample	LEPS150609M	
MH46N	4/29/15	Monthly Characterization Sample	L46N150429M	
MH46N	5/14/15	Monthly Characterization Sample	L46N150514M	
MH46N	6/10/15	Monthly Characterization Sample	L46N150610M	
PS2A	4/15/15	Monthly Characterization Sample	LP2A150415M	
PS2A	5/13/15	Monthly Characterization Sample	LP2A150513M	
PS2A	6/10/15	Monthly Characterization Sample	LP2A150610M	

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Leachate Field Parameters

Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature
			(std. Units)	(umho/cm)	(o C)
LS-API	4/15/2015	LAPI150415M	5200	8.32	3.7
LS-API	5/13/2015	LAPI150513M	6300	8.49	14.9
LS-API	6/10/2015	LAPI150610M	19500	8.3	18.1
LS-LEPS	4/15/2015	LEPS150414M	4700	8.57	11.2
LS-LEPS	4/15/2015	LEPS150414P	4700	8.57	11.2
LS-LEPS	5/13/2015	LEPS150512M	6300	8.36	15.2
LS-LEPS	5/13/2015	LEPS150512P	6300	8.36	15.2
LS-LEPS	6/10/2015	LEPS150609M	5800	7.95	18.3
LS-LEPS	6/10/2015	LEPS150609P	5800	7.95	18.3
LS-MH46N	4/29/2015	L46N150429M	6500	7.15	24.4
LS-MH46N	5/14/2015	L46N150514M	7200	7.34	22.2
LS-MH46N	6/10/2015	L46N150610M	7700	7.22	25.1
LS-PS2A	4/15/2015	LP2A150415M	275	6.76	10.6
LS-PS2A	5/13/2015	LP2A150513M	600	6.48	11.2
LS-PS2A	6/10/2015	LP2A150610M	3700	7.79	13.4

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO3)	Ammonia, (NH3 as N)	Biological Oxygen Demand	Chemical Oxygen Demand	Chloride	Coliforms, Fecal	Coliforms, Total	Cyanide	Fluoride	Nitrate+Nitrite (NO3+NO2 as N)	Phosphorus, Total (as P)
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(CFU/100mL)	(CFU/100mL)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
LS-API	4/15/2015	LAPI150415M	2430	423	748	1800	596	24000	360000	< 0.02 SU	< 0.1 U	0.243	2.23
LS-API	5/13/2015	LAPI150513M	5770	1210	1580	4130 S	1500	280000	2200000	0.026 ST	< 0.1 U	0.166 H	4.11
LS-API	6/10/2015	LAPI150610M	8190	1740	2030	5670 S	2310	74000	1700000	< 0.02 JSU	< 0.1 U	0.16 T	8.05
LS-LEPS	4/14/2015	LEPS150414M	2080	398	74.6	762	537	5000 H	55000 H	< 0.02 SU	< 0.1 U	0.152	0.128
LS-LEPS	5/12/2015	LEPS150512M	2610	455	229	859	812	14000	120000	< 0.02 SU	1.1 T	46.1 H	1.32
LS-LEPS	6/9/2015	LEPS150609M	1300	321	107	1320	1000	4400 H	30000 H	< 0.02 JSU	0.66 T	263	1.32
LS-MH46N	4/29/2015	L46N150429M	2450	515	83.8	1310	1350	< 1 U	< 1 CU	< 0.02 SU	< 0.1 U	0.08 T	2.63
LS-MH46N	5/14/2015	L46N150514M	2700	566	84.8	1510	1550	< 1 U	< 1 U	< 0.02 SU	< 0.1 U	0.136	2.39
LS-MH46N	6/10/2015	L46N150610M	3120	686	103	1710	1860	< 1 U	200	< 0.02 SU	1.8 T	1.26	2.59
LS-PS2A	4/15/2015	LP2A150415M	83.9	9.6 T	3.05	32.3	14.7	< 1 U	5	< 0.02 U	< 0.1 U	1.78	0.0188
LS-PS2A	5/13/2015	LP2A150513M	111	31.2	8.26	71.5	61.7	< 1 U	2000	< 0.02 U	0.1 T	5.23 H	0.0478
LS-PS2A	6/10/2015	LP2A150610M	1260	317	137	1290	1030	< 1 U	9000	< 0.02 JSU	1.1 T	85.1	1.05

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Sulfide Total (mg/L)	Total Fats, Oils and Grease (mg/L)	Total Kjeldahl Nitrogen (TKN as N) (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Volatile Suspended Solids (mg/L)
LS-API	4/15/2015	LAPI150415M	6390	25.6	0.878	27.7	482	555	49.1	1230	23.5
LS-API	5/13/2015	LAPI150513M	14500	32 T	0.66 T	5 T	1290 S	1120 S	77	2700	30.5
LS-API	6/10/2015	LAPI150610M	19100	21.2	3.3 T	8.7	1780 S	1650 S	56	3690	44.7
LS-LEPS	4/14/2015	LEPS150414M	5410	29.4	0.17 T	2.4 T	402	159	536	807	321
LS-LEPS	5/12/2015	LEPS150512M	7490	43.7	< 0.01 U	< 2 U	502	204	313	1310	238
LS-LEPS	6/9/2015	LEPS150609M	7160	57.2	< 0.01 U	3.7 T	312	271	188	1550	156
LS-MH46N	4/29/2015	L46N150429M	8460	< 0.1 U	0.475	5.4	516	360	2.22	957	2.22
LS-MH46N	5/14/2015	L46N150514M	9720	< 0.1 U	0.3 T	2.3 T	618	376	1.3	1450	1
LS-MH46N	6/10/2015	L46N150610M	10700	41.8	0.672	5.9	689	499	12	1190	6.8
LS-PS2A	4/15/2015	LP2A150415M	293	16.9	< 0.01 U	< 2 U	12	11	1.04	121	< 1 U
LS-PS2A	5/13/2015	LP2A150513M	679	69.8	< 0.01 U	< 2 U	32.4	22.3	1	130	< 1 U
LS-PS2A	6/10/2015	LP2A150610M	6630	209	< 0.01 U	< 2 U	326	383	12.8	1130	8.14

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate Metal Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Aluminum, total (mg/L)	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Calcium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Copper, total (mg/L)	Iron, total (mg/L)	Lead, total (mg/L)
LS-API	4/15/2015	LAPI150415M	2.29	< 0.001 U	0.074 T	0.127	< 0.001 U	< 0.002 U	69.7	0.0766	0.0176	0.01 T	6.07	< 0.001 U
LS-API	5/13/2015	LAPI150513M	2.98	0.021 T	0.197	0.247	< 0.001 U	< 0.002 U	84.5	0.174	0.0396	0.014 T	8.19	< 0.001 U
LS-API	6/10/2015	LAPI150610M	0.771	0.036 T	0.251	0.305	< 0.001 U	< 0.002 U	81.6	0.277	0.058	0.01 T	7.96	< 0.001 U
LS-LEPS	4/14/2015	LEPS150414M	3.75	< 0.001 U	0.078 T	0.121	< 0.001 U	< 0.002 U	57.5	0.0688	0.0164	0.015 T	7.76	< 0.001 U
LS-LEPS	4/14/2015	LEPS150414P						< 0.002 U		0.0588		0.0043 T		< 0.001 U
LS-LEPS	5/12/2015	LEPS150512M	5.55	0.024 T	0.195	0.158	< 0.001 U	< 0.002 U	62.9	0.102	0.0238	0.02 T	10.7	< 0.001 U
LS-LEPS	5/12/2015	LEPS150512P						< 0.002 U		0.102		0.016 T		< 0.001 U
LS-LEPS	6/9/2015	LEPS150609M	1.21	0.023 T	0.174	0.145	< 0.001 U	< 0.002 U	61.5	0.113	0.0296	0.0098 T	7.19	< 0.001 U
LS-LEPS	6/9/2015	LEPS150609P						< 0.002 U		0.11		0.0085 T		< 0.001 U
LS-MH46N	4/29/2015	L46N150429M	< 0.02 U	< 0.001 U	0.072 T	0.306	< 0.001 U	< 0.002 U	77.1	0.0817	0.0267	< 0.002 U	2.26	< 0.001 U
LS-MH46N	5/14/2015	L46N150514M	< 0.02 U	< 0.001 U	0.079 T	0.374	< 0.001 U	< 0.002 U	88.5	0.0899	0.0307	0.0043 T	2.37	< 0.001 U
LS-MH46N	6/10/2015	L46N150610M	< 0.02 U	< 0.001 U	0.088 T	0.424	< 0.001 U	< 0.002 U	88	0.106	0.0348	< 0.002 U	3.22	< 0.001 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.02 U	< 0.001 U	< 0.001 U	0.0134	< 0.001 U	< 0.002 U	16.6	< 0.005 U	< 0.003 U	0.016 T	0.796	< 0.001 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.02 U	< 0.001 U	< 0.001 U	0.0229	< 0.001 U	< 0.002 U	17.2	< 0.005 U	0.0032 T	0.012 T	0.506	< 0.001 U
LS-PS2A	6/10/2015	LP2A150610M	0.11 T	< 0.001 U	0.031 T	0.0574	< 0.001 U	< 0.002 U	37.6	0.0505	0.0356	0.0672	7.55	< 0.001 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate Metal Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
LS-API	4/15/2015	LAPI150415M	43.7	0.851	< 0.0001 U	0.0988	212	< 0.001 U	< 0.003 U	592	< 0.001 U	< 0.01 U	0.027 T	0.139
LS-API	5/13/2015	LAPI150513M	86.3 D	0.905	< 0.0001 U	0.209	513 D	< 0.001 U	< 0.003 U	1490	< 0.001 U	0.027 T	0.0642	0.282
LS-API	6/10/2015	LAPI150610M	117	0.734	< 0.0001 U	0.315	758 D	< 0.001 U	< 0.003 U	2110	< 0.001 U	0.053 T	0.0888	0.396
LS-LEPS	4/14/2015	LEPS150414M	37.3	0.721	< 0.0001 U	0.0825	183	< 0.001 U	< 0.003 U	508	< 0.001 U	< 0.01 U	0.031 T	0.15
LS-LEPS	4/14/2015	LEPS150414P				0.0728								0.0686
LS-LEPS	5/12/2015	LEPS150512M	48.5	1.5	< 0.0001 U	0.118	268	< 0.001 U	< 0.003 U	766	< 0.001 U	< 0.01 U	0.041 T	0.217
LS-LEPS	5/12/2015	LEPS150512P				0.121								0.215
LS-LEPS	6/9/2015	LEPS150609M	58.5	0.934	< 0.0001 U	0.145	318	< 0.001 U	< 0.003 U	938	< 0.001 U	< 0.01 U	0.042 T	0.194
LS-LEPS	6/9/2015	LEPS150609P				0.135								0.182
LS-MH46N	4/29/2015	L46N150429M	46	0.535	< 0.0001 U	0.119	287	< 0.001 U	< 0.003 U	926	< 0.001 U	< 0.01 U	0.0938	0.01 T
LS-MH46N	5/14/2015	L46N150514M	50	0.558	< 0.0001 U	0.13	327	< 0.001 U	< 0.003 U	1080	< 0.001 U	< 0.01 U	0.11	0.013 T
LS-MH46N	6/10/2015	L46N150610M	55.8	0.541	< 0.0001 U	0.154	348	< 0.001 U	< 0.003 U	1200	< 0.001 U	< 0.01 U	0.133	0.872
LS-PS2A	4/15/2015	LP2A150415M	5.42	0.0816	< 0.0001 U	< 0.01 U	5.78	< 0.001 U	< 0.003 U	13.3	< 0.001 U	< 0.01 U	< 0.002 U	0.01 T
LS-PS2A	5/13/2015	LP2A150513M	7.26	0.134	< 0.0001 U	0.012 T	15.3	< 0.001 U	< 0.003 U	51.5	< 0.001 U	< 0.01 U	< 0.002 U	0.022 T
LS-PS2A	6/10/2015	LP2A150610M	20.7	0.349	0.00016 T	0.137	227	< 0.001 U	< 0.003 U	790	< 0.001 U	0.092 T	0.011 T	0.315

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate VOA Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2- Tetrachloro- ethane 630-20-6 (ug/L)	1,1,1- Trichloro- ethane 71-55-6 (ug/L)	1,1,2,2- Tetrachloro- ethane 79-34-5 (ug/L)	1,1,2- Trichloro- ethane 79-00-5 (ug/L)	1,1-Dichloro- ethane 75-34-3 (ug/L)	1,1-Dichloro- ethene 75-35-4 (ug/L)	1,1-Dichloro- propene 563-58-6 (ug/L)	1,2,3- Trichloro- propane 96-18-4 (ug/L)	1,2-Dibromo- 3- Chloropropan 96-12-8 (ug/L)	1,2- Dibromo- ethane 106-93-4 (ug/L)	1,2-Dichloro- benzene 95-50-1 (ug/L)	1,2-Dichloro- ethane 107-06-2 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-API	5/13/2015	LAPI150513M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	2.4 T
LS-API	6/10/2015	LAPI150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	27 T	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	4/14/2015	LEPS150414M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-MH46N	4/29/2015	L46N150429M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	2.7 T	< 0.2 U
LS-MH46N	5/14/2015	L46N150514M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	2.2 T	< 0.2 U
LS-MH46N	6/10/2015	L46N150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	2.8 T	< 0.2 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	6/10/2015	LP2A150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate VOA Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dichloro- propane	1,3 Dichloro- benzene	1,3-Dichloro- propane	1,4-Dichloro- benzene	2,2-Dichloro- propane	2-Butanone	2-Hexanone	2-Methyl-1- propanol	3-Chloro- propene	4-Methyl-2- Pentanone	Acetone	Acetonitrile
			78-87-5 (ug/L)	541-73-1 (ug/L)	142-28-9 (ug/L)	106-46-7 (ug/L)	594-20-7 (ug/L)	78-93-3 (ug/L)	591-78-6 (ug/L)	78-83-1 (ug/L)	107-05-1 (ug/L)	108-10-1 (ug/L)	67-64-1 (ug/L)	75-05-8 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1200 D	< 4 U	< 100 U	< 10 U	< 4 U	1430 D	< 100 U
LS-API	5/13/2015	LAPI150513M	< 0.2 U	< 0.2 U	< 0.2 U	3.2 T	< 0.2 U	3550 D	< 4 U	148	< 10 U	36 T	3490 D	101
LS-API	6/10/2015	LAPI150610M	< 0.2 U	21 T	< 0.2 U	23 T	< 0.2 U	2920	< 4 U	< 100 U	28 T	< 4 U	2500	< 100 U
LS-LEPS	4/14/2015	LEPS150414M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-MH46N	4/29/2015	L46N150429M	< 0.2 U	< 0.2 U	< 0.2 U	10.8	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-MH46N	5/14/2015	L46N150514M	< 0.2 U	< 0.2 U	< 0.2 U	8.9	< 0.2 U	< 4 GU	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-MH46N	6/10/2015	L46N150610M	< 0.2 U	< 0.2 U	< 0.2 U	12.3	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
LS-PS2A	6/10/2015	LP2A150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	54.5	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	< 4 U	< 100 U

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 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Acrolein 107-02-8 (ug/L)	Acrylonitrile 107-13-1 (ug/L)	Benzene 71-43-2 (ug/L)	Bromochloro- methane 74-97-5 (ug/L)	Bromodichlor o-methane 75-27-4 (ug/L)	Bromoform 75-25-2 (ug/L)	Bromo- methane 74-83-9 (ug/L)	Carbon Disulfide 75-15-0 (ug/L)	Carbon Tetrachloride 56-23-5 (ug/L)	Chloro- benzene 108-90-7 (ug/L)	Chloro- dibromo- methane 124-48-1 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-API	5/13/2015	LAPI150513M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-API	6/10/2015	LAPI150610M	< 10 U	< 0.07 U	25 T	< 0.2 U	< 0.2 U	< 0.2 U	35 T	24 T	< 0.2 U	25 T	< 0.2 U
LS-LEPS	4/14/2015	LEPS150414M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	5/12/2015	LEPS150512M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	6/9/2015	LEPS150609M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.1 T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-MH46N	4/29/2015	L46N150429M	< 10 U	< 0.07 U	3.7 T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.4 T	< 0.2 U
LS-MH46N	5/14/2015	L46N150514M	< 10 U	< 0.07 U	3.3 T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-MH46N	6/10/2015	L46N150610M	< 10 U	< 0.07 U	3.8 T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.7 T	< 0.2 U
LS-PS2A	4/15/2015	LP2A150415M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	5/13/2015	LP2A150513M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	6/10/2015	LP2A150610M	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 10 U	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

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Site	Date	Sample ID	Chloroethane 75-00-3 (ug/L)	Chloroform 67-66-3 (ug/L)	Chloro- methane 74-87-3 (ug/L)	Chloroprene 126-99-8 (ug/L)	cis-1,2- Dichloro- ethene 156-59-2 (ug/L)	cis-1,3- Dichloro- propene 10061-01-5 (ug/L)	Dibromo- methane 74-95-3 (ug/L)	Dichloro- difluoro- methane 75-71-8 (ug/L)	Ethylbenzene 100-41-4 (ug/L)	m & p Xylenes mpx (ug/L)	Methyl Iodide 74-88-4 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.5 T	< 0.2 U
LS-API	5/13/2015	LAPI150513M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.8 T	7.24	< 0.2 U
LS-API	6/10/2015	LAPI150610M	32 T	25 T	37 T	< 20 U	27 T	< 0.2 U	< 0.2 U	< 0.2 U	23 T	50.6	< 0.2 U
LS-LEPS	4/14/2015	LEPS150414M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.2 U	< 0.2 U	4.57 B	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-MH46N	4/29/2015	L46N150429M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	48.9	49.4	< 0.2 U
LS-MH46N	5/14/2015	L46N150514M	< 0.2 U	< 0.2 U	< 0.2 GU	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	40.2	36.9	< 0.2 U
LS-MH46N	6/10/2015	L46N150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	55.8	49.9	< 0.2 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
LS-PS2A	6/10/2015	LP2A150610M	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 0.2 U	< 0.2 U	0.466 B	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 0.2 U	< 0.2 U	0.582 B	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 0.2 U	< 0.2 U	0.35 T	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 0.2 U	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U

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 Cedar Hills Landfill --- Leachate VOA Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Methacrylate	Methylacrylo- nitrile	Methylene Chloride	o-Xylene	Propionitrile	Styrene	Tetrachloro- ethene	Toluene	trans-1,2- Dichloro- ethene	trans-1,3- Dichloro- propene	trans-1,4- Dichloro-2- butene	Trichloro- ethene
			80-62-6 (ug/L)	126-98-7 (ug/L)	75-09-2 (ug/L)	95-47-6 (ug/L)	107-12-0 (ug/L)	100-42-5 (ug/L)	127-18-4 (ug/L)	108-88-3 (ug/L)	156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 2 U	< 5 U	5.41	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	11.5	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-API	5/13/2015	LAPI150513M	< 2 U	< 5 U	< 0.2 U	3.7 T	< 60 U	< 0.2 U	< 0.2 U	10.2	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-API	6/10/2015	LAPI150610M	< 2 U	< 5 U	24 T	24 T	< 60 U	< 0.2 U	21 T	40.9	27 T	< 0.2 U	< 100 U	23 T
LS-LEPS	4/14/2015	LEPS150414M	< 2 U	< 5 U	5.23	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-LEPS	5/12/2015	LEPS150512M	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-LEPS	6/9/2015	LEPS150609M	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-MH46N	4/29/2015	L46N150429M	< 2 U	< 5 U	< 0.2 U	3.7 T	< 60 U	< 0.2 U	< 0.2 U	3.9 T	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-MH46N	5/14/2015	L46N150514M	< 2 U	< 5 U	< 0.2 U	3 T	< 60 GU	< 0.2 U	< 0.2 U	3.8 T	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-MH46N	6/10/2015	L46N150610M	< 2 U	< 5 U	< 0.2 U	4.27	< 60 U	< 0.2 U	< 0.2 U	5.58	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-PS2A	4/15/2015	LP2A150415M	< 2 U	< 5 U	6.74	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-PS2A	5/13/2015	LP2A150513M	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
LS-PS2A	6/10/2015	LP2A150610M	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 2 U	< 5 U	< 0.2 U	< 0.2 U	< 60 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015
 Cedar Hills Landfill --- Leachate VOA Analytical Data
 Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Trichloro- fluoro- methane 75-69-4 (ug/L)	Vinyl Acetate 108-05-4 (ug/L)	Vinyl Chloride 75-01-4 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.2 U	< 0.2 U	7.74 D
LS-API	5/13/2015	LAPI150513M	< 0.2 U	< 0.2 U	9.67 D
LS-API	6/10/2015	LAPI150610M	< 0.2 U	< 0.2 U	22.6
LS-LEPS	4/14/2015	LEPS150414M	< 0.2 U	< 0.2 U	< 0.02 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.2 U	< 0.2 U	< 0.02 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.2 U	< 0.2 U	< 0.02 U
LS-MH46N	4/29/2015	L46N150429M	< 0.2 U	< 0.2 U	4.15
LS-MH46N	5/14/2015	L46N150514M	< 0.2 U	< 0.2 U	3.59
LS-MH46N	6/10/2015	L46N150610M	< 0.2 U	< 0.2 U	3.16
LS-PS2A	4/15/2015	LP2A150415M	< 0.2 U	< 0.2 U	< 0.02 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.2 U	< 0.2 U	< 0.02 U
LS-PS2A	6/10/2015	LP2A150610M	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/14/2015	VTRP150415C	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	4/28/2015	VTRP150429C	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/11/2015	VTRP150512C	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	5/14/2015	VTRP150514C	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	6/3/2015	VTRP150610B	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	6/9/2015	VTRP150609C	< 0.2 U	< 0.2 U	< 0.02 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Leachate Pesticide/Herbicide Analytical Data

Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	2,4,5-T	2,4,5-TP	2,4-D	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha BHC	Alpha Chlordane	Aroclor 1016	Aroclor 1221	Aroclor 1232
			93-76-5 (ug/L)	93-72-1 (ug/L)	94-75-7 (ug/L)	72-54-8 (ug/L)	72-55-9 (ug/L)	50-29-3 (ug/L)	309-00-2 (ug/L)	319-84-6 (ug/L)	57-74-9 (ug/L)	12674-11-2 (ug/L)	11104-28-2 (ug/L)	11141-16-5 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-API	5/13/2015	LAPI150513M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-API	6/10/2015	LAPI150610M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-LEPS	4/14/2015	LEPS150414M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-LEPS	5/12/2015	LEPS150512M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-LEPS	6/9/2015	LEPS150609M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-MH46N	4/29/2015	L46N150429M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-MH46N	5/14/2015	L46N150514M	< 2 U	< 1 U	< 5 JU	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-MH46N	6/10/2015	L46N150610M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	4/15/2015	LP2A150415M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	5/13/2015	LP2A150513M	< 2 U	< 1 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	6/10/2015	LP2A150610M	< 2 U	7.28 D	< 5 U	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U

Environmental Monitoring Data

Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Leachate Pesticide/Herbicide Analytical Data

Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Beta BHC	Delta BHC	Dieldrin	Dinoseb	Endo- sulfan I	Endo- sulfan II	Endo- sulfan Sulfate	Endrin
			53469-21-9 (ug/L)	12672-29-6 (ug/L)	11097-69-1 (ug/L)	11096-82-5 (ug/L)	319-85-7 (ug/L)	319-86-8 (ug/L)	60-57-1 (ug/L)	88-85-7 (ug/L)	959-98-8 (ug/L)	33213-65-9 (ug/L)	1031-07-8 (ug/L)	72-20-8 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-API	5/13/2015	LAPI150513M	0.61 T	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-API	6/10/2015	LAPI150610M	0.63 T	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-LEPS	4/14/2015	LEPS150414M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-MH46N	4/29/2015	L46N150429M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-MH46N	5/14/2015	L46N150514M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-MH46N	6/10/2015	L46N150610M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-PS2A	6/10/2015	LP2A150610M	0.395	< 0.01 U	0.231	0.089 T	< 0.025 U	< 0.1 U	< 0.1 U	< 1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U

Environmental Monitoring Data

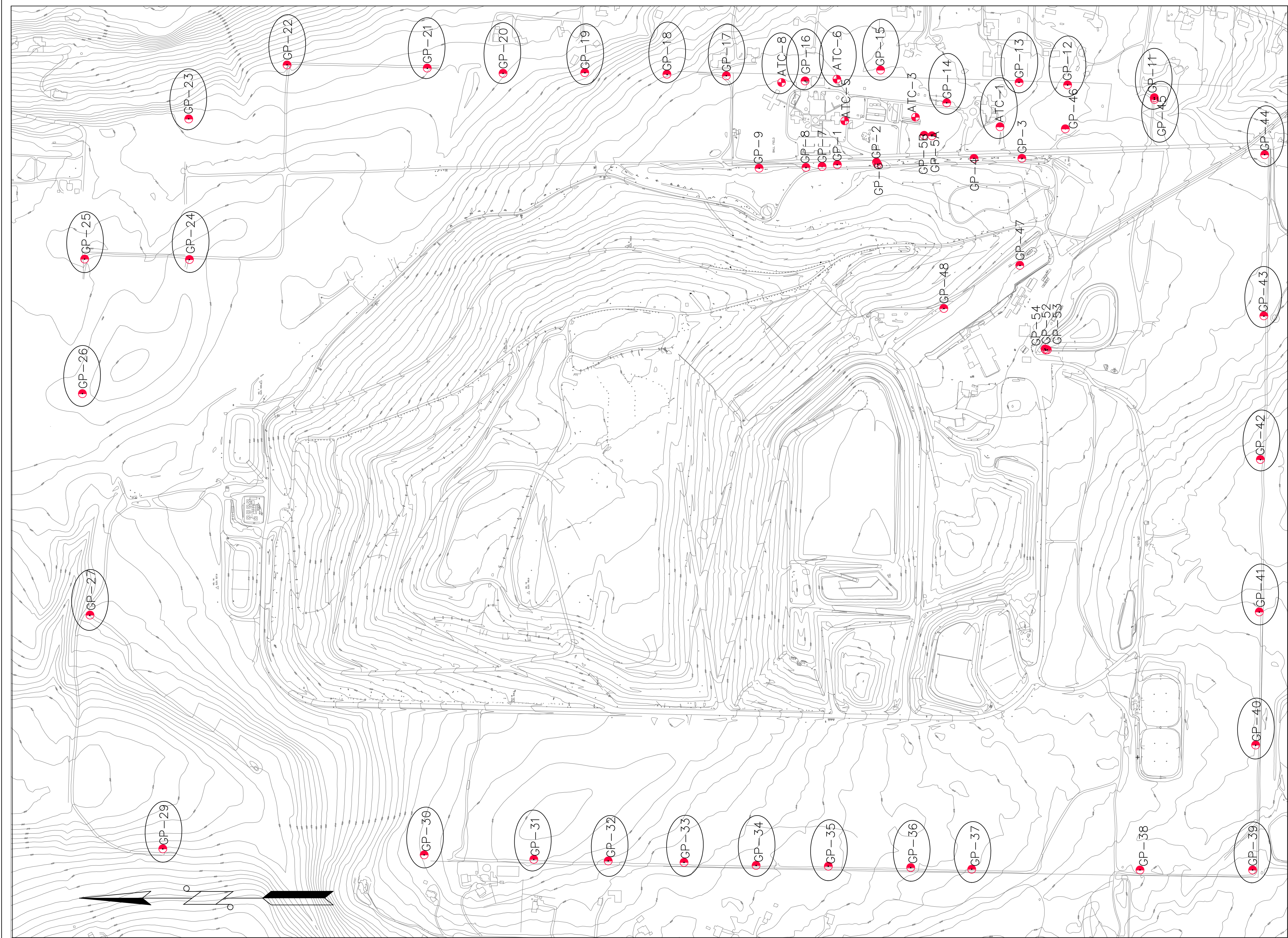
Data Collected from April 1, 2015 to June 30, 2015

Cedar Hills Landfill --- Leachate Pesticide/Herbicide Analytical Data

Contact Person --- Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Endrin Aldehyde 7421-93-4 (ug/L)	Heptachlor 76-44-8 (ug/L)	Heptachlor Epoxide 1024-57-3 (ug/L)	Isodrin 465-73-6 (ug/L)	Lindane 58-89-9 (ug/L)	Methoxy- chlor 72-43-5 (ug/L)	Toxaphene 8001-35-2 (ug/L)
LS-API	4/15/2015	LAPI150415M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-API	5/13/2015	LAPI150513M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-API	6/10/2015	LAPI150610M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-LEPS	4/14/2015	LEPS150414M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-LEPS	5/12/2015	LEPS150512M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-LEPS	6/9/2015	LEPS150609M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-MH46N	4/29/2015	L46N150429M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-MH46N	5/14/2015	L46N150514M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-MH46N	6/10/2015	L46N150610M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-PS2A	4/15/2015	LP2A150415M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-PS2A	5/13/2015	LP2A150513M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-PS2A	6/10/2015	LP2A150610M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U

Landfill Gas Monitoring Data



Northing	Easting	Elev	Description	Inst. Date
170,000.33	1,701,942.93	640.02	GP-1 CASE EL	1985/86
169,740.00	1,701,960.00	622.00	GP-2 CASE EL	1985/86
168,758.11	1,701,985.28	594.21	GP-3 CASE EL	1985/86
169,058.18	1,701,972.94	606.19	GP-4 CASE EL	1985/86
169,370.19	1,702,134.95	616.23	GP-5A GRND EL	1988
169,422.02	1,702,138.87	619.63	GP-5B CASE EL	1988
169,731.73	1,701,946.48	635.59	GP-6 CASE EL	1988
170,101.22	1,701,930.58	640.66	GP-7 CASE EL	1988
170,208.37	1,701,925.10	642.67	GP8 CASE EL	1988
170,519.95	1,701,919.34	645.27	GP-9 CASE EL	1988
			GP-10 NOT INSTALLED	1988
167,890.09	1,702,389.27	567.15	GP-11 CASE EL	1988
168,466.64	1,702,473.27	568.08	GP-12 CASE EL	1988
168,790.03	1,702,490.84	588.15	GP-13 CASE EL	1988
169,271.56	1,702,354.75	613.32	GP-14 CASE EL	1988
169,724.93	1,702,446.19	618.75	GP-15 CASE EL	1988
170,214.28	1,702,500.56	630.19	GP-16 CASE EL	1988
170,738.83	1,702,535.09	625.18	GP-17 CASE EL	1988
171,132.85	1,702,543.29	600.83	GP-18 CASE EL	1988
171,634.52	1,702,554.91	544.15	GP-19 CASE EL	1988
172,224.83	1,702,550.70	496.61	GP-20 CASE EL	1988
172,729.15	1,702,584.65	489.79	GP-21 CASE EL	1988
173,662.40	1,702,607.81	374.84	GP-22 CASE EL	1988
174,317.16	1,702,248.74	501.77	GP-23 CASE EL	1988
174,313.44	1,701,311.74	544.72	GP-24 CASE EL	1988
175,011.63	1,701,324.89	533.86	GP-25 CASE EL	1988
175,043.82	1,700,364.55	541.69	GP-26 CASE EL	1988
174,983.78	1,698,935.68	484.75	GP-27 CASE EL	1988
			GP-28 NOT INSTALLED	1988
174,455.39	1,697,385.67	431.05	GP-29 CASE EL	1988
172,787.40	1,697,339.61	644.62	GP-30 CASE EL	1988
172,013.96	1,697,321.72	673.37	GP-31 CASE EL	1988
171,524.28	1,697,308.08	647.57	GP-32 CASE EL	1988
171,017.18	1,697,293.36	625.03	GP-33 CASE EL	1988
170,537.12	1,697,287.04	604.93	GP-34 CASE EL	1988
170,083.32	1,697,286.32	596.28	GP-35 CASE EL	1988
169,510.89	1,697,265.94	574.92	GP-36 CASE EL	1988
169,049.03	1,697,252.08	557.38	GP-37 CASE EL	1988
167,909.72	1,697,243.54	523.57	GP-38 CASE EL	1988
167,239.45	1,697,232.41	541.03	GP-39 CASE EL	1988
167,205.68	1,698,100.32	502.77	GP-40 CASE EL	1988
167,191.96	1,698,965.50	482.97	GP-41 CASE EL	1988
167,183.37	1,699,979.90	457.95	GP-42 CASE EL	1988
167,160.00	1,700,961.11	536.86	GP-43 CASE EL	1988
167,135.28	1,702,007.20	529.11	GP-44 CASE EL	1994
167,888.74	1,702,378.77	567.47	GP-45 CASE EL	1994
168,482.15	1,702,182.52	589.79	GP-46 CASE EL	1994
168,783.75	1,701,272.71	600.07	GP-47 CASE EL	1994
169,289.65	1,700,985.98	616.56	GP-48 CASE EL	1994
168,612.91	1,700,710.62	561.13	GP-52 GRND EL	2001
168,601.99	1,700,711.34	561.02	GP-53 GRND EL	2001
168,617.89	1,700,717.53	561.20	GP-54 GRND EL	2001
168,916.92	1,702,195.87	591.29	GP-ATC-1 GRND EL	1985/86
169,479.79	1,702,259.97	616.25	GP-ATC-3 GRND EL	1985/86
			GP-ATC-4 ABANDONED/REMOVED	
169,950.42	1,702,235.30	625.65	GP-ATC-5 GRND EL	1985/86
170,002.70	1,702,512.99	620.16	GP-ATC-6 GRND EL	1985/86
170,371.26	1,702,490.56	629.94	GP-ATC-8 GRND EL	1985/86



KING COUNTY DEPARTMENT OF
NATURAL RESOURCES AND PARKS
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
LANDFILL GAS MIGRATION MONITORING PLAN

APPROVED VICTOR O. OKEREKE DATE 03-19-07
RECOMMENDED TOM THENO DATE 09-28-07
DESIGNED N/A DRAWN PHAM / McEWEN
PROJECT NO. SURVEY NO. SHEET 1 OF 1
\\c:\data\cewpm\lgas-prob-loc\alt-llg-loc\006-geom\probonly.dwg

LEGEND

 INTERIOR LFG MONITORING PROBES

 LFG MIGRATION MONITORING PROBES

DATE	REVISION	BY

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
April 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	4/2/2015 14:08	0.0	0.1	20.2	0	0	No Reading Water
ATC-01S	4/2/2015 14:06	0.0	0.4	18.8	0	0	
ATC-06D	4/2/2015 13:36	0.0	0.7	7.6	0	-0.2	
ATC-06S	4/2/2015 13:34	0.0	0.1	20.1	0	0	
ATC-08D	4/2/2015 13:41	0.0	0.1	19.9	0	-1.94	
ATC-08S	4/2/2015 13:39	0.0	0.1	20.0	0	0	
GP-11A	4/2/2015 15:11	0.0	0.1	19.9	0	0	
GP-11B	4/2/2015 15:12	0.0	0.0	20.1	0	-0.9	
GP-11C	4/2/2015 15:14	0.0	0.0	20.1	0	-0.69	
GP-11D	4/2/2015 15:15	0.0	0.1	20.0	0	0.14	
GP-12A	4/2/2015 14:22	0.0	0.0	20.2	0	0	
GP-12B	4/2/2015 14:23	0.0	0.0	20.2	0	0	
GP-12C	4/2/2015 14:25	0.0	0.1	18.7	0	-16.27	
GP-12D	4/2/2015 14:27	0.0	0.2	18.3	0	-3.63	
GP-13A	4/2/2015 14:13	0.0	0.1	20.3	0	0	
GP-13B	4/2/2015 14:14	0.0	0.1	20.2	0	0.03	No Reading Water
GP-13C	4/2/2015 14:16	0.0	0.0	20.2	0	0	
GP-13D	4/2/2015 14:18	0.0	0.0	20.2	0	-3.31	
GP-14A	4/2/2015 14:51	0.0	0.1	20.0	0	-3.11	
GP-14B	4/2/2015 14:52	0.0	0.0	20.1	0	-3.23	
GP-15A	4/2/2015 13:49	0.0	0.4	20.1	0	-2.96	No Reading Water
GP-15C	4/2/2015 13:51	0.0	0.8	16.2	0	-0.81	
GP-15D	4/2/2015 13:53	0.0	0.1	20.2	0	-3.87	
GP-16A	4/2/2015 13:26	0.0	0.2	19.9	0	0	
GP-16B	4/2/2015 13:27	0.0	0.1	20.0	0	-3.59	
GP-16C	4/2/2015 13:29	0.0	0.1	20.0	0	-3.51	No Reading Water
GP-17A	4/2/2015 16:48	0.0	0.6	20.1	0	-3.37	
GP-17B	4/2/2015 16:52	0.0	0.8	16.7	0	0	
GP-17C	4/2/2015 16:55	0.0	0.0	20.3	0	-2.7	
GP-18A	4/2/2015 16:58	0.0	0.3	19.9	0	-0.46	
GP-18B	4/2/2015 17:00	0.0	0.3	12.5	0	-0.01	No Reading Water
GP-18C	4/2/2015 17:02	0.0	0.1	20.0	0	-2.66	
GP-19A	4/2/2015 17:05	0.0	0.0	20.4	0	-0.02	
GP-19B	4/2/2015 17:06	0.0	0.5	15.7	0	-0.02	
GP-19C	4/2/2015 17:08	0.0	0.1	20.4	0	-0.22	
GP-20A	4/2/2015 17:11	0.0	0.0	20.5	0	0	
GP-20B	4/2/2015 17:12	0.0	0.2	18.0	0	-0.01	
GP-20C	4/2/2015 17:14	0.0	0.2	6.1	0	0	
GP-21A	4/3/2015 12:22	0.0	0.1	20.8	0	-0.28	
GP-21B	4/3/2015 12:23	0.0	0.1	9.2	0	0	
GP-21C	4/3/2015 12:24	0.0	0.1	9.2	0	-0.75	
GP-22A	4/3/2015 12:28	0.0	0.2	20.6	0	-2.17	
GP-22C	4/3/2015 12:30	0.0	0.9	6.5	0	0.26	
GP-23A	4/3/2015 12:34	0.0	0.1	20.8	0	0	
GP-23B	4/3/2015 12:36	0.0	0.1	20.9	0	-0.01	
GP-23C	4/3/2015 12:37	0.0	0.1	21.0	0	0	
GP-24A	4/3/2015 12:40	0.0	4.2	10.3	0	-0.01	
GP-24B	4/3/2015 12:42	0.0	1.4	17.7	0	-0.01	
GP-25	4/3/2015 12:44	0.0	3.6	12.0	0	-0.01	
GP-26	4/3/2015 12:48	0.0	1.2	17.1	0	0.16	
GP-27	4/3/2015 12:51	0.0	8.9	7.2	0	0	
GP-29A	4/3/2015 12:55	0.0	1.0	20.0	0	0	
GP-29B	4/3/2015 12:57	0.0	0.9	20.5	0	0	
GP-30A	4/3/2015 13:17	0.0	2.5	17.7	0	1.49	
GP-30B	4/3/2015 13:19	0.0	1.4	18.7	0	-0.1	
GP-31A	4/3/2015 13:22	0.0	1.4	18.7	0	-5.38	No Reading Water
GP-31B	4/3/2015 13:23	0.0	0.3	17.0	0	1.38	
GP-31C	4/3/2015 13:25	0.0	0.4	19.9	0	0	
GP-32A	4/3/2015 13:28	0.0	0.9	18.7	0	0	
GP-32B	4/3/2015 13:29	0.0	0.2	20.8	0	0.01	
GP-32C	4/3/2015 13:31	0.0	0.3	20.7	0	-0.01	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
April 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-33A	4/3/2015 13:34	0.0	0.1	21.0	0	0	
GP-33B	4/3/2015 13:35	0.0	0.1	21.0	0	0	
GP-33C	4/3/2015 13:36	0.0	0.1	21.0	0	-0.67	
GP-34A	4/3/2015 13:39	0.0	0.1	21.0	0	-0.41	No Reading Water
GP-34B	4/3/2015 13:40	0.0	0.2	21.0	0	0	
GP-34C	4/3/2015 13:42	0.0	0.1	20.9	0	-0.07	
GP-35A	4/3/2015 13:45	0.0	0.1	21.0	0	-0.06	
GP-35B	4/3/2015 13:46	0.0	0.1	21.0	0	-0.01	
GP-35C	4/3/2015 13:47	0.0	0.1	21.0	0	-0.02	
GP-36A	4/3/2015 13:53	0.0	0.3	9.5	0	-0.06	
GP-36B	4/3/2015 13:54	0.0	0.3	9.3	0	0.41	No Reading Water
GP-36C	4/3/2015 13:56	0.0	0.3	9.1	0	0.52	
GP-37A	4/3/2015 14:01	0.0	0.3	9.3	0	-0.01	No Reading Water
GP-37B	4/3/2015 14:02	0.0	0.4	12.2	0	-0.01	
GP-37C	4/3/2015 14:04	0.0	0.6	1.8	0	0.53	
GP-39	4/3/2015 14:09	0.0	1.3	18.3	0	-0.05	
GP-40	4/3/2015 14:12	0.0	0.1	18.0	0	-0.01	
GP-41A	4/3/2015 14:15	0.0	0.1	21.0	0	0	
GP-41B	4/3/2015 14:16	0.0	0.1	21.0	0	-0.01	
GP-41C	4/3/2015 14:18	0.0	0.1	21.0	0	-0.01	
GP-42A	4/3/2015 14:21	0.0	0.1	21.0	0	-6.7	No Reading Water
GP-42B	4/3/2015 14:23	0.0	0.3	20.8	0	0.33	
GP-43A	4/3/2015 14:26	0.0	0.3	20.8	0	-0.08	
GP-43B	4/3/2015 14:27	0.0	0.1	21.0	0	-0.02	
GP-43C	4/3/2015 14:29	0.0	0.1	21.0	0	0	
GP-44A	4/3/2015 14:33	0.0	0.1	21.0	0	-0.01	
GP-44B	4/3/2015 14:35	0.0	0.2	19.7	0	0.37	
GP-44C	4/3/2015 14:36	0.0	0.1	20.9	0	-0.01	
GP-45D	4/3/2015 12:06	0.0	0.1	20.7	0	0.5	
GP-45I	4/3/2015 12:04	0.0	0.1	20.8	0	0.01	
GP-45S	4/3/2015 12:02	0.0	0.1	20.7	0	0	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

May 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	5/19/2015 8:44	0.0	0.1	20.8	0	0.02	
ATC-01S	5/19/2015 8:42	0.0	0.1	20.8	0	0.03	
ATC-06D	5/19/2015 10:07	0.0	0.5	12.8	0	0.02	
ATC-06S	5/19/2015 10:05	0.0	2.2	18.3	0	0.03	
ATC-08D	5/19/2015 10:18	0.0	0.4	20.1	0	0.02	
ATC-08S	5/19/2015 10:16	0.0	3.1	16.5	0	0.03	
GP-11A	5/19/2015 8:25	0.0	0.2	20.5	0	0.06	
GP-11B	5/19/2015 8:26	0.0	0.0	20.8	0	-0.65	
GP-11C	5/19/2015 8:28	0.0	0.0	20.8	0	-0.69	
GP-11D	5/19/2015 8:30	0.0	0.1	20.7	0	0.08	
GP-12A	5/19/2015 8:50	0.0	0.0	20.8	0	0.05	
GP-12B	5/19/2015 8:52	0.0	0.0	20.9	0	0.03	
GP-12C	5/19/2015 8:54	0.0	0.1	19.2	0	-18.65	
GP-12D	5/19/2015 8:55	0.0	0.6	8.3	0	-1.91	
GP-13A	5/19/2015 8:59	0.0	0.1	20.8	0	0.44	
GP-13B	5/19/2015 9:01	0.0	0.1	20.9	0	0.1	
GP-13C	5/19/2015 9:02	0.0	0.0	21.0	0	0.01	
GP-13D	5/19/2015 9:04	0.0	0.0	21.0	0	-2.08	
GP-14A	5/19/2015 9:10	0.0	0.0	21.0	0	-1.22	
GP-14B	5/19/2015 9:11	0.0	0.0	21.0	0	-1.62	
GP-15A	5/19/2015 9:28	0.0	0.0	0.0	0	0	No Reading Water
GP-15C	5/19/2015 9:29	0.0	1.7	10.6	0	-0.1	
GP-15D	5/19/2015 9:31	0.0	0.1	20.8	0	-5.31	
GP-16A	5/19/2015 10:10	0.0	6.0	14.0	0	0.02	
GP-16B	5/19/2015 10:12	0.0	0.2	19.3	0	-1.18	
GP-16C	5/19/2015 10:14	0.0	0.1	20.7	0	-1.74	
GP-17A	5/19/2015 16:04	0.0	0.0	0.0	0	0	No Reading Water
GP-17B	5/19/2015 16:05	0.0	0.7	17.3	0	0.03	
GP-17C	5/19/2015 16:07	0.0	0.0	20.6	0	-0.79	
GP-18A	5/19/2015 16:10	0.0	1.3	15.5	0	-4.6	
GP-18B	5/19/2015 16:12	0.0	0.2	12.9	0	-0.02	
GP-18C	5/19/2015 16:13	0.0	0.1	19.5	0	-0.34	
GP-19A	5/19/2015 16:17	0.0	0.0	20.8	0	0.04	
GP-19B	5/19/2015 16:19	0.0	0.5	16.0	0	0.05	
GP-19C	5/19/2015 16:20	0.0	0.0	20.9	0	-0.62	
GP-20A	5/19/2015 16:24	0.0	0.0	20.9	0	0.06	
GP-20B	5/19/2015 16:25	0.0	0.2	15.0	0	0.05	
GP-20C	5/19/2015 16:27	0.0	0.0	20.5	0	0.08	
GP-21A	5/19/2015 16:29	0.0	0.0	20.9	0	-1.67	
GP-21B	5/19/2015 16:31	0.0	0.0	8.8	0	0.07	
GP-21C	5/19/2015 16:31	0.0	0.0	0.0	0	0	No Reading Water
GP-22A	5/19/2015 16:36	0.0	0.5	20.1	0	-6.26	
GP-22C	5/19/2015 16:38	0.0	0.7	6.2	0	-0.42	
GP-23A	5/19/2015 12:01	0.0	0.0	20.7	0	0	
GP-23B	5/19/2015 12:03	0.0	0.0	20.7	0	0.05	
GP-23C	5/19/2015 12:04	0.0	0.0	20.7	0	0.1	
GP-24A	5/19/2015 12:09	0.0	5.3	8.4	0	0	
GP-24B	5/19/2015 12:10	0.0	0.1	20.6	0	0.1	
GP-25	5/19/2015 12:48	0.0	4.2	14.9	0	0.04	
GP-26	5/19/2015 12:51	0.0	1.1	17.2	0	0.01	
GP-27	5/19/2015 12:55	0.0	9.9	7.1	0	0.07	
GP-29A	5/19/2015 13:00	0.0	0.5	20.2	0	0	
GP-29B	5/19/2015 13:01	0.0	0.7	20.4	0	0.02	
GP-30A	5/19/2015 13:33	0.0	2.8	17.8	0	0.03	
GP-30B	5/19/2015 13:35	0.0	0.2	20.6	0	-0.12	
GP-31A	5/19/2015 13:38	0.0	0.0	0.0	0	0	No Reading Water
GP-31B	5/19/2015 13:40	0.0	0.1	19.0	0	-0.05	
GP-31C	5/19/2015 13:42	0.0	1.3	16.3	0	0.09	
GP-32A	5/19/2015 13:45	0.0	0.1	20.7	0	0.05	
GP-32B	5/19/2015 13:47	0.0	0.2	20.5	0	0.09	
GP-32C	5/19/2015 13:48	0.0	0.2	20.5	0	0.08	
GP-33A	5/19/2015 13:52	0.0	2.1	17.8	0	0.04	
GP-33B	5/19/2015 13:53	0.0	0.0	20.8	0	0	
GP-33C	5/19/2015 13:55	0.0	0.0	20.8	0	-0.94	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

May 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-34A	5/19/2015 13:58	0.0	0.2	20.7	0	-1.39	
GP-34B	5/19/2015 13:59	0.0	0.0	20.7	0	0.11	
GP-34C	5/19/2015 14:01	0.0	0.0	19.6	0	-0.99	
GP-35A	5/19/2015 14:05	0.0	0.0	20.7	0	0.07	
GP-35B	5/19/2015 14:06	0.0	0.0	20.7	0	0.01	
GP-35C	5/19/2015 14:08	0.0	0.0	20.7	0	-0.01	
GP-36A	5/19/2015 14:12	0.0	0.2	2.3	0	0.4	
GP-36B	5/19/2015 14:14	0.0	0.1	15.8	0	0.31	
GP-36C	5/19/2015 14:16	0.0	0.3	8.0	0	-0.85	
GP-37A	5/19/2015 14:20	0.0	0.3	8.8	0	0.5	
GP-37B	5/19/2015 14:22	0.0	0.2	19.0	0	0.18	
GP-37C	5/19/2015 14:24	0.0	0.5	2.2	0	-0.7	
GP-39	5/19/2015 14:30	0.0	1.4	17.5	0	0.09	
GP-40	5/19/2015 14:34	0.0	0.0	16.2	0	0.03	
GP-41A	5/19/2015 14:39	0.0	0.0	20.5	0	0.03	
GP-41B	5/19/2015 14:40	0.0	0.0	20.4	0	0	
GP-41C	5/19/2015 14:42	0.0	0.0	20.6	0	0	
GP-42A	5/19/2015 14:46	0.0	0.0	0.0	0	0	No Reading Water
GP-42B	5/19/2015 14:47	0.0	0.4	19.7	0	0	
GP-43A	5/19/2015 14:52	0.0	0.0	20.5	0	0.04	
GP-43B	5/19/2015 14:53	0.0	0.0	20.6	0	0	
GP-43C	5/19/2015 14:56	0.0	0.0	20.6	0	-0.02	
GP-44A	5/19/2015 15:00	0.0	0.0	20.6	0	0.05	
GP-44B	5/19/2015 15:02	0.0	0.1	18.7	0	0.33	
GP-44C	5/19/2015 15:03	0.0	0.0	20.5	0	0.06	
GP-45D	5/19/2015 8:35	0.0	0.0	20.9	0	-0.48	
GP-45I	5/19/2015 8:33	0.0	0.0	20.8	0	0.12	
GP-45S	5/19/2015 8:32	0.0	0.0	20.8	0	0.03	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

June 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	6/8/2015 8:48	0.0	0.2	20.7	0	0	
ATC-01S	6/8/2015 8:47	0.0	2.4	17.6	0	0	
ATC-06D	6/8/2015 9:52	0.0	0.1	20.5	0	-0.07	
ATC-06S	6/8/2015 9:50	0.0	2.6	18.6	0	0	
ATC-08D	6/8/2015 9:39	0.0	0.1	20.5	0	0.01	
ATC-08S	6/8/2015 9:38	0.0	3.1	18.2	0	0	
GP-11A	6/8/2015 8:33	0.0	0.9	18.9	0	0	
GP-11B	6/8/2015 8:35	0.0	0.0	20.9	0	-0.03	
GP-11C	6/8/2015 8:37	0.0	0.0	20.8	0	-0.09	
GP-11D	6/8/2015 8:38	0.0	0.0	20.7	0	0.12	
GP-12A	6/8/2015 8:56	0.0	0.1	21.0	0	0	
GP-12B	6/8/2015 8:57	0.0	0.1	21.0	0	0	
GP-12C	6/8/2015 8:59	0.0	0.1	18.6	0	-2.6	
GP-12D	6/8/2015 9:00	0.0	0.2	20.9	0	-0.03	
GP-13A	6/8/2015 9:04	0.0	1.8	18.8	0	0	
GP-13B	6/8/2015 9:06	0.0	0.0	21.0	0	0.01	
GP-13C	6/8/2015 9:08	0.0	0.0	20.9	0	0	
GP-13D	6/8/2015 9:09	0.0	0.0	21.0	0	-0.45	
GP-14A	6/8/2015 9:14	0.0	0.0	21.0	0	-0.16	
GP-14B	6/8/2015 9:15	0.0	0.0	21.0	0	-0.16	
GP-15A	6/8/2015 9:30	0.0	0.2	21.0	0	0.1	
GP-15C	6/8/2015 9:26	0.0	1.1	14.9	0	-0.01	
GP-15D	6/8/2015 9:28	0.0	0.1	21.0	0	-3.16	
GP-16A	6/8/2015 9:45	0.0	4.5	18.2	0	0	
GP-16B	6/8/2015 9:42	0.0	0.0	21.0	0	-0.68	
GP-16C	6/8/2015 9:44	0.0	0.0	21.0	0	-0.41	
GP-17A	6/8/2015 13:03	0.0	0.0	0.0	0	-19.17	No Reading Water
GP-17B	6/8/2015 13:00	0.0	0.6	17.5	0	0	
GP-17C	6/8/2015 13:02	0.0	0.0	20.2	0	-0.11	
GP-18A	6/8/2015 13:06	0.0	1.5	15.7	0	0.01	
GP-18B	6/8/2015 13:08	0.0	0.2	12.7	0	0.01	
GP-18C	6/8/2015 13:09	0.0	0.1	18.3	0	0.03	
GP-19A	6/8/2015 13:13	0.0	0.0	20.5	0	0	
GP-19B	6/8/2015 13:15	0.0	0.4	16.0	0	0.01	
GP-19C	6/8/2015 13:16	0.0	0.0	20.6	0	0.02	
GP-20A	6/8/2015 13:20	0.0	0.8	18.4	0	0	
GP-20B	6/8/2015 13:21	0.0	0.2	16.2	0	0	
GP-20C	6/8/2015 13:23	0.0	0.1	5.5	0	0.14	
GP-21A	6/8/2015 13:27	0.0	0.0	20.3	0	-5.65	
GP-21B	6/8/2015 13:29	0.0	0.0	8.6	0	0	
GP-21C	6/8/2015 13:30	0.0	0.0	0.0	0	-0.27	No Reading Water
GP-22A	6/8/2015 13:35	0.0	2.5	12.1	0	0	
GP-22C	6/8/2015 13:36	0.7	0.8	5.7	14	0.42	
GP-23A	6/8/2015 13:43	0.0	0.0	20.3	0	0	
GP-23B	6/8/2015 13:45	0.0	0.0	20.4	0	0	
GP-23C	6/8/2015 13:46	0.0	0.0	20.5	0	0	
GP-24A	6/8/2015 13:50	0.0	4.5	12.0	0	0	
GP-24B	6/8/2015 13:52	0.0	0.4	19.6	0	0.01	
GP-25	6/8/2015 13:56	0.0	3.8	15.3	0	0.01	
GP-26	6/8/2015 14:01	0.0	0.8	18.9	0	0.02	
GP-27	6/8/2015 14:05	0.0	10.0	7.5	0	0	
GP-29A	6/8/2015 14:14	0.0	0.7	19.8	0	0	
GP-29B	6/8/2015 14:15	0.0	0.6	20.1	0	0.01	
GP-30A	6/8/2015 6:24	0.0	2.6	18.4	0	-0.04	
GP-30B	6/8/2015 6:26	0.0	1.2	19.2	0	-0.43	
GP-31A	6/8/2015 6:30	0.4	12.0	0.2	8	-11.09	
GP-31B	6/8/2015 6:31	0.0	0.3	17.4	0	-0.05	
GP-31C	6/8/2015 6:33	0.0	1.4	16.1	0	0	
GP-32A	6/8/2015 6:37	0.0	0.1	20.9	0	0	
GP-32B	6/8/2015 6:39	0.0	0.2	20.8	0	0.01	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

June 2015 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol	O2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-32C	6/8/2015 6:40	0.0	0.2	20.8	0	0	
GP-33A	6/8/2015 6:44	0.0	2.4	18.2	0	0	
GP-33B	6/8/2015 6:46	0.0	0.1	21.0	0	-0.01	
GP-33C	6/8/2015 6:47	0.0	0.0	20.9	0	-0.97	
GP-34A	6/8/2015 6:54	0.0	0.0	0.0	0	0.55	No Reading Water
GP-34B	6/8/2015 6:51	0.0	0.1	21.0	0	-0.01	
GP-34C	6/8/2015 6:53	0.0	0.0	20.7	0	-0.31	
GP-35A	6/8/2015 6:59	0.0	0.2	20.9	0	0	
GP-35B	6/8/2015 7:01	0.0	0.0	21.0	0	0	
GP-35C	6/8/2015 7:03	0.0	0.1	21.0	0	0	
GP-36A	6/8/2015 7:06	0.0	0.4	20.4	0	-0.06	
GP-36B	6/8/2015 7:09	0.0	0.0	0.0	0	0.46	No Reading Water
GP-36C	6/8/2015 7:08	0.0	0.3	8.4	0	-0.21	
GP-37A	6/8/2015 7:15	0.0	0.0	0.0	0	0.66	No Reading Water
GP-37B	6/8/2015 7:12	0.0	0.8	15.8	0	0.7	
GP-37C	6/8/2015 7:14	0.0	0.6	1.3	0	0.06	
GP-39	6/8/2015 7:25	0.0	1.7	18.5	0	-0.01	
GP-40	6/8/2015 7:29	0.0	0.0	16.3	0	0	
GP-41A	6/8/2015 7:34	0.0	5.2	14.4	0	0	
GP-41B	6/8/2015 7:36	0.0	0.2	20.8	0	-0.01	
GP-41C	6/8/2015 7:37	0.0	0.1	21.0	0	0	
GP-42A	6/8/2015 7:48	0.0	0.1	20.9	0	0.12	
GP-42B	6/8/2015 7:45	0.0	0.6	18.5	0	-0.13	
GP-43A	6/8/2015 7:53	0.0	0.0	21.0	0	0	
GP-43B	6/8/2015 7:55	0.0	0.0	21.0	0	0	
GP-43C	6/8/2015 7:56	0.0	0.0	20.9	0	0	
GP-44A	6/8/2015 8:07	0.0	0.0	20.9	0	0	
GP-44B	6/8/2015 8:02	0.0	0.1	20.7	0	-0.06	
GP-44C	6/8/2015 8:03	0.0	0.0	21.0	0	0	
GP-45D	6/8/2015 8:30	0.0	0.0	21.0	0	-0.15	
GP-45I	6/8/2015 8:29	0.0	0.0	20.9	0	0	
GP-45S	6/8/2015 8:27	0.0	0.0	21.0	0	0	

**SECOND QUARTER
BUILDING MONITORING**

 King County	INSTRUMENT: Place check by instrument used :				WEATHER:	DATE: 04/23/15
	HEATH DetectoPak III (sn:8746-4) ☐ Foxboro TVA 1000 FID/PID (sn: 7785301) ☒				Overcast/ Calm	TECH: DB
ENVIS ID	BLDG #	DESCRIPTION	CH ₄ (ppm)	BAR PRESS (in. Hg)	TIME	REMARKS
GOC- 04/23/15	1	FRONT OFFICE	0	29.95	7:30am	
GCR- 04/23/15	2	CONF ROOM	0	29.95	7:32am	
GAO- 04/23/15	3	PAYROLL OFFICE	0	29.95	7:34am	
GEO- 04/23/15	4	ENGR. OFFICE	0	29.95	7:36am	
GLRC- 04/23/15	5	LUNCHROOM	0	29.95	7:38am	
GSPC 04/23/15		SPOC	0	29.95	8:10am	
GELO- 04/23/15 A	6A	DRY STORAGE	0	29.95	8:15am	
GELO- 04/23/15 B	6B	ELECTRICIAN OFFICE	0	29.95	8:17am	
GAP- 04/23/15		ACCOUNT PAYABLE	0	29.95	8:20am	
GSO- 04/23/15 A	7A	SHOP OFFICE	0	29.95	8:25am	
GPR- 04/23/15 B	7B	PARTS ROOM	0	29.95	8:30am	
GMS- 04/23/15 C	7C	SHOP PIT AREA/BAY	0	29.95	8:35am	
GTB- 04/23/15 D	7D	SHOP TIRE BAY	0	29.95	8:37am	
GEW- 04/23/15 E	7E	EAST WELD SHOP	0	29.95	8:40am	
GWW- 04/23/15 F	7F	WEST WELD SHOP	0	29.95	8:42am	
GCS- 04/23/15	8	CARPENTER'S	0	29.95	8:45am	
GSS- 04/23/15	9	WASTEWATER	0	29.95	8:47am	
GSS- 04/23/15 B	9B	CARPENTER/STORAGE	0	29.95	8:50am	
GSH- 04/23/15	10	SCALEHOUSE	0	29.95	7:50am	
GB13- 04/23/15	13	WW COMPRESSOR	0	29.95	7:55am	
GB16- 04/23/15	16	GENERATOR	0	29.95	8:53am	
GB19- 04/23/15	19	LEPS (P.S.# 5)	0	29.95	8:55am	
GB19- 04/23/15 B	19B	LEPS/H ₂ O ₂ ROOM	0	29.95	8:57am	
GB20- 04/23/15	20	LEPS ELEC PANALS	0	29.95	9:00am	
GB21- 04/23/15	21	STORAGE(OLD PS 1)	0	29.95	9:10am	
GB22- 04/23/15	22	STORAGE/N FLARE	0	29.95	9:17am	
GB23- 04/23/15	23	LFGAS	0	29.95	9:20am	
GB24- 04/23/15	24	NE GENERATOR BLDG	0	29.95	9:15am	
GBWW- 04/23/15	30	WOMEN BRK RM	0	29.95	8:05am	
GPWT- 04/23/15	PW	PRESSURE WASH RM	0	29.95	7:40am	
GBRR- 04/23/15	RR	TRUCKWASH RR W	0	29.95	7:42am	
GBSS- 04/23/15	SS	TRUCKWASH RR E	0	29.95	7:44am	
GBZZ- 04/23/15	29	MANAGERS TRAILER	0	29.95	7:46am	
GBPT- 04/23/15		CCG FASTER	0	29.95	8:00am	
GCLS- 04/23/15		CHLORINE SHED	0	29.95	7:45am	

CEDAR HILLS REGIONAL LANDFILL
West Perimeter Landfill Gas Migration Control Probes
Second Quarter 2015 Monitoring

Probe ID	Date	Time	Barometric				Static Pressure in INWC
			Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	
MGPW 1700	4/6/2015	1:41pm	29.86	0.0	0.3	19.0	0.25
MGPW 1700	4/20/2015	11:20am	29.96	0.0	0.1	20.3	0.16
MGPW 1700	5/13/2015	1:30pm	29.91	0.0	0.0	19.8	0.16
MGPW 1700	5/19/2015	10:27am	30.09	0.0	0.2	20.6	-0.14
MGPW 1700	6/5/2015	2:12pm	30.1	0.0	0.1	19.6	-0.07
MGPW 1700	6/18/2015	2:04pm	29.99	0.0	0.1	20.8	-0.01
MGPW 1708	4/6/2015	1:46pm	29.86	0.0	0.1	20.8	-2.14
MGPW 1708	4/20/2015	11:30am	29.96	0.0	0.2	20.5	-0.58
MGPW 1708	5/13/2015	1:45pm	29.91	0.0	0.0	21.0	-1.55
MGPW 1708	5/19/2015	10:30am	30.09	0.0	0.1	20.7	-2.23
MGPW 1708	6/5/2015	2:15pm	30.1	0.0	0.1	19.7	-1.15
MGPW 1708	6/18/2015	2:09pm	29.99	0.0	0.1	20.7	-1.22
MGPW 1710S	4/6/2015	1:22pm	29.86	0.0	0.1	20.5	-1.87
MGPW 1710S	4/20/2015	11:37am	29.96	0.0	0.1	20.5	-0.08
MGPW 1710S	5/13/2015	1:50am	29.91	0.0	0.0	21.0	-1.67
MGPW 1710S	5/19/2015	10:33am	30.09	0.0	0.1	20.7	-1.96
MGPW 1710S	6/5/2015	2:18pm	30.1	0.0	0.1	20.7	-0.97
MGPW 1710S	6/18/2015	2:12pm	29.99	0.0	0.1	20.7	-1.01
MGPW 1710D	4/6/2015	1:25pm	29.86	0.0	0.1	20.6	-2.14
MGPW 1710D	4/20/2015	11:40am	29.96	0.0	0.1	20.6	-0.52
MGPW 1710D	5/13/2015	1:52pm	29.91	0.0	0.0	21.0	-1.75
MGPW 1710D	5/19/2015	10:35am	30.09	0.0	0.1	20.7	-2.06
MGPW 1710D	6/5/2015	2:21pm	30.10	0.0	0.1	20.7	-1
MGPW 1710D	6/18/2015	2:15pm	29.99	0.0	0.1	20.8	-1.12
MGPW 1714	4/6/2015	1:18pm	29.86	0.0	0.1	20.5	-1.79
MGPW 1714	4/20/2015	11:43am	29.96	0.0	0.0	20.6	-0.39
MGPW 1714	5/13/2015	1:48pm	29.91	0.0	0.0	21.0	-1.55
MGPW 1714	5/19/2015	10:38am	30.09	0.0	0.1	20.7	-1.82
MGPW 1714	6/5/2015	2:24pm	30.10	0.0	0.1	19.7	-0.82
MGPW 1714	6/18/2015	2:18pm	29.99	0.0	0.1	20.9	-0.9

KING COUNTY SOLID WASTE DIVISION
QUALIFIER INFORMATION
(Effective 8/27/2015)

QUAL	QUALIFIER DESCRIPTION
U	Undetected; Analyte Concentration Less than Method Detection Limit (< MDL)
T	Estimated; Less than Reporting Detection Limit (<RDL) but Greater than Method Detection Limit (> MDL)
J	Reported Value is an Estimate
B	Matrix Target Analyte Present in Blank, AND, Sample Result Less than or Equal to 10x Blank Detection
C	Confluent Growth
E	Estimated; Outside Expected Accuracy
H	Exceeds Holding Time
R	Data Rejected
S	Sample Handling Errors
X	Too Numerous to Count
D	Re-analysis Due to Dilution
P	PASS – Qualitative Result Acceptable
F	FAIL – Qualitative Result is not Acceptable
G	Estimated with Low Bias (Coliform; BOD; All Other Chemistry Parameters)
L	Estimated with High Bias (BOD; All Other Chemistry Parameters)

APPENDIX C

Meteorological Data

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN MILES PER HOUR

NOTE: ALL TIMES ARE PST!

DAY	HOUR ENDING																								AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	5.1	7.2	6.4	2.5	2.3	7.3	6.4	7.1	5.8	6.3	5.9	4.6	7.8	8.9	12.3	8.9	8.5	4.9	5.0	3.6	4.9	2.7	1.7	3.4	5.8
2	2.5	1.7	1.5	1.8	3.5	3.3	2.2	2.8	2.9	4.8	2.2	4.4	4.2	4.1	4.1	5.1	2.9	2.4	3.8	3.3	3.2	5.0	4.5	4.4	3.4
3	4.0	3.5	5.8	5.0	5.2	5.0	4.8	5.6	5.8	5.7	8.4	14.1	8.7	10.2	12.8	14.4	13.6	7.1	4.4	4.4	5.1	4.7	3.2	4.7	6.9
4	4.9	4.7	4.2	3.7	2.1	1.6	2.5	2.9	3.4	5.8	5.0	3.2	4.2	4.1	2.6	5.7	5.7	6.5	4.2	2.5	2.7	4.1	4.4	3.6	3.9
5	5.5	5.6	4.7	3.1	2.2	1.9	1.8	1.6	1.8	2.9	4.1	3.8	6.9	4.9	10.1	5.9	6.9	5.3	3.8	4.0	3.5	5.5	7.4	5.7	4.5
6	5.0	3.1	2.7	3.1	5.8	4.4	6.0	5.7	6.2	5.6	5.6	4.2	3.1	1.7	2.6	2.0	6.6	7.0	5.7	5.5	5.0	6.7	8.9	7.3	5.0
7	8.8	8.1	5.6	6.5	5.6	4.7	4.7	1.7	1.8	2.3	3.2	6.2	10.7	9.4	8.6	8.3	5.9	3.8	5.1	5.0	1.6	2.5	1.4	2.5	5.2
8	2.0	2.6	1.8	0.6	2.0	3.3	2.5	3.2	3.2	3.3	3.2	4.5	3.6	4.9	3.3	7.5	5.1	7.3	8.3	6.2	4.0	1.8	1.1	1.3	3.6
9	5.8	3.6	3.8	4.2	4.5	1.9	0.8	1.2	2.2	1.6	4.3	6.3	6.9	6.7	5.4	7.1	7.9	6.2	7.4	3.5	5.7	6.2	6.0	2.6	4.7
10	3.3	1.8	4.5	6.4	3.3	3.7	4.2	3.4	5.1	7.2	8.1	8.2	8.3	12.7	12.4	16.3	8.5	4.3	5.4	12.1	11.7	9.7	9.4	11.9	7.6
11	7.7	9.0	8.2	7.3	9.4	7.7	8.5	10.4	9.4	13.2	14.8	16.9	20.5	17.1	18.3	18.8	16.8	16.5	17.9	11.4	9.0	11.4	12.6	11.6	12.7
12	7.5	9.1	7.2	5.8	3.7	5.0	6.9	6.1	8.7	8.1	5.8	7.3	8.4	9.2	9.3	6.9	4.2	5.4	3.6	1.9	2.7	2.7	2.9	2.0	5.9
13	4.1	4.6	2.5	3.4	4.7	6.0	3.4	5.9	6.7	10.0	11.6	12.1	9.6	5.2	3.6	5.8	8.0	5.0	5.1	3.8	4.2	4.7	5.8	5.2	5.9
14	4.2	3.9	3.2	3.0	3.7	3.7	3.7	6.0	6.9	5.9	5.0	4.0	6.5	7.0	15.6	5.1	6.6	3.6	3.3	3.8	3.6	4.6	4.5	3.5	5.0
15	3.0	3.9	4.5	3.3	2.4	2.0	1.4	2.9	4.1	2.3	3.6	6.3	4.5	4.6	4.9	6.1	7.4	6.5	5.8	5.3	5.6	2.6	1.8	1.3	4.0
16	2.3	2.7	2.0	1.8	2.4	2.0	1.0	1.4	1.3	3.7	8.0	8.4	10.8	8.4	8.6	9.7	9.0	7.5	5.9	5.3	7.9	8.8	6.2	3.7	5.4
17	1.6	2.1	1.9	2.9	3.7	3.5	3.0	8.7	8.6	4.4	5.9	9.7	9.7	7.3	8.0	10.1	11.3	10.4	4.5	2.3	2.4	4.0	4.0	7.7	5.7
18	5.7	2.4	5.3	4.1	5.1	8.4	5.6	2.1	1.2	5.6	10.8	9.0	7.5	10.3	9.9	8.9	7.8	7.2	4.3	6.4	8.2	12.3	8.3	5.7	6.8
19	6.1	3.2	4.0	1.8	2.5	3.5	4.7	4.8	3.1	4.9	6.0	8.0	8.0	7.3	7.1	8.9	6.2	7.7	6.8	3.7	7.8	8.9	6.8	1.6	5.6
20	1.0	2.6	1.9	0.8	1.2	1.6	1.4	1.8	1.2	1.6	3.1	7.1	5.6	6.1	8.3	9.2	8.0	7.5	6.1	4.8	7.8	5.0	10.3	9.1	4.7
21	7.9	7.3	5.7	3.4	3.1	4.4	5.4	5.4	4.1	2.4	4.4	8.3	9.1	5.7	8.0	9.4	7.9	13.6	11.4	8.0	10.9	10.6	10.9	5.9	7.2
22	5.1	4.2	6.3	5.9	7.5	5.0	5.1	4.7	3.2	4.5	3.8	3.0	4.2	3.6	5.8	3.8	5.3	6.7	5.7	5.1	2.5	4.4	6.8	6.9	5.0
23	8.8	7.9	8.0	6.7	5.2	4.8	5.3	5.8	8.1	9.8	9.6	9.7	10.3	5.4	7.6	8.8	11.9	8.1	6.9	6.1	5.8	4.5	6.2	5.6	7.4
24	6.6	8.2	8.4	7.9	7.6	8.7	8.6	11.2	12.4	13.9	11.4	9.3	8.9	6.2	7.1	9.4	9.0	8.1	7.1	7.9	7.6	6.4	7.1	5.5	8.5
25	3.8	3.3	3.4	6.8	7.1	3.3	3.7	4.2	5.5	4.6	5.4	4.9	5.5	9.2	8.6	7.9	6.6	8.7	5.0	3.4	2.9	3.3	1.6	2.2	5.0
26	2.2	3.7	3.6	3.5	3.9	3.4	4.1	3.5	2.5	3.6	3.4	3.1	1.7	4.1	4.4	7.0	8.6	6.6	3.1	1.5	4.6	2.9	1.8	1.9	3.7
27	2.7	6.0	7.1	7.3	7.7	7.2	6.4	6.4	4.7	3.7	2.4	3.0	5.2	5.3	8.5	8.6	9.1	7.8	8.5	11.0	14.5	16.5	17.6	18.6	8.2
28	14.1	8.3	9.5	5.8	5.6	7.1	8.0	6.2	6.1	5.2	5.2	7.9	8.9	10.2	8.6	10.3	8.2	8.1	5.5	3.2	1.9	2.6	1.3	5.2	6.8
29	8.4	6.1	6.1	8.0	5.9	5.0	7.2	5.5	4.5	4.4	4.8	6.8	10.6	10.8	10.4	10.8	12.4	11.2	11.7	9.7	8.2	7.9	5.7	8.1	7.9
30	5.6	6.8	3.1	4.6	3.5	4.6	4.7	6.2	7.0	5.9	5.3	4.3	5.0	6.0	4.8	4.6	4.4	4.9	3.0	2.7	3.3	1.5	2.7	5.0	4.6

MONTHLY AVERAGE = 5.88

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN DEGREES

NOTE: ALL TIMES ARE PST!

(MEASURED CLOCKWISE FROM NORTH)																										
HOUR ENDING																										
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.	
1	168.	187.	180.	182.	190.	218.	207.	191.	163.	190.	194.	231.	202.	188.	198.	205.	196.	136.	132.	116.	35.	106.	141.	147.	171.	
2	117.	69.	173.	145.	204.	214.	107.	114.	178.	227.	195.	144.	206.	339.	19.	359.	7.	277.	268.	295.	115.	139.	144.	140.	175.	
3	150.	149.	119.	164.	147.	165.	165.	213.	199.	164.	211.	231.	196.	192.	212.	209.	215.	191.	154.	146.	156.	175.	144.	128.	175.	
4	139.	144.	146.	171.	144.	170.	112.	129.	121.	179.	217.	227.	242.	238.	278.	288.	273.	276.	304.	44.	85.	152.	200.	161.	185.	
5	200.	159.	116.	124.	139.	45.	40.	31.	359.	351.	339.	336.	288.	259.	255.	345.	56.	8.	42.	45.	48.	117.	144.	147.	166.	
6	167.	161.	157.	202.	227.	200.	147.	146.	143.	133.	146.	74.	89.	63.	287.	31.	22.	18.	30.	48.	40.	41.	38.	38.	110.	
7	38.	35.	31.	28.	34.	31.	35.	52.	30.	226.	12.	18.	13.	15.	9.	23.	10.	338.	305.	317.	68.	69.	21.	22.	74.	
8	120.	173.	183.	141.	82.	170.	141.	156.	154.	168.	210.	262.	300.	350.	61.	15.	144.	223.	212.	137.	110.	46.	127.	136.	159.	
9	208.	107.	137.	138.	166.	86.	301.	228.	248.	250.	271.	286.	270.	261.	286.	307.	290.	90.	133.	101.	134.	134.	167.	130.	197.	
10	272.	208.	184.	178.	124.	174.	167.	168.	188.	182.	200.	231.	239.	230.	242.	236.	207.	162.	136.	179.	178.	178.	169.	194.	193.	
11	174.	166.	157.	146.	163.	172.	169.	183.	167.	206.	211.	217.	216.	230.	229.	233.	236.	232.	228.	204.	161.	179.	176.	205.	194.	
12	179.	176.	168.	170.	160.	164.	187.	187.	211.	231.	232.	222.	209.	205.	214.	226.	245.	242.	291.	357.	38.	55.	80.	150.	192.	
13	108.	156.	109.	139.	147.	229.	113.	182.	166.	209.	232.	225.	242.	168.	117.	177.	339.	20.	20.	14.	126.	147.	157.	169.	155.	
14	120.	130.	117.	118.	113.	144.	110.	142.	152.	176.	183.	203.	227.	248.	256.	25.	10.	17.	124.	88.	122.	122.	109.	94.	131.	
15	87.	108.	119.	89.	44.	97.	165.	139.	212.	174.	328.	313.	353.	2.	350.	339.	12.	14.	351.	11.	22.	38.	118.	102.	149.	
16	68.	55.	162.	154.	152.	155.	127.	357.	23.	355.	358.	25.	31.	20.	15.	9.	1.	357.	340.	30.	34.	34.	37.	72.	124.	
17	18.	40.	142.	342.	4.	46.	11.	31.	32.	77.	253.	330.	359.	348.	329.	310.	322.	337.	305.	40.	14.	2.	310.	8.	167.	
18	22.	358.	45.	37.	28.	34.	36.	51.	88.	15.	10.	329.	315.	296.	302.	321.	351.	6.	353.	29.	29.	26.	28.	29.	131.	
19	45.	38.	151.	121.	7.	36.	26.	38.	24.	29.	9.	358.	24.	340.	3.	3.	355.	340.	350.	5.	33.	33.	50.	65.	104.	
20	47.	20.	343.	60.	127.	185.	112.	25.	330.	328.	301.	275.	290.	292.	285.	289.	301.	295.	300.	6.	40.	19.	30.	40.	181.	
21	46.	51.	200.	111.	173.	172.	145.	158.	204.	241.	249.	274.	256.	253.	236.	260.	16.	23.	23.	19.	32.	56.	59.	100.	140.	
22	107.	131.	146.	164.	186.	146.	128.	121.	128.	97.	226.	310.	286.	297.	301.	319.	251.	275.	282.	300.	246.	263.	228.	196.	214.	
23	180.	154.	150.	148.	137.	140.	148.	152.	171.	196.	207.	197.	204.	146.	153.	165.	245.	198.	172.	192.	181.	161.	161.	155.	171.	
24	159.	179.	172.	155.	142.	162.	160.	176.	187.	200.	212.	191.	156.	160.	141.	122.	136.	123.	134.	140.	151.	140.	161.	168.	159.	
25	155.	170.	172.	21.	25.	102.	168.	138.	128.	132.	156.	225.	236.	32.	29.	4.	360.	28.	292.	240.	131.	102.	46.	124.	134.	
26	128.	177.	137.	128.	156.	147.	154.	135.	202.	208.	203.	213.	310.	237.	217.	254.	273.	244.	248.	172.	237.	159.	156.	146.	193.	
27	127.	134.	126.	141.	133.	134.	130.	104.	107.	122.	52.	317.	334.	313.	25.	7.	13.	34.	113.	136.	132.	125.	124.	122.	129.	
28	171.	196.	221.	164.	149.	179.	223.	194.	157.	170.	146.	199.	2.	26.	23.	22.	15.	22.	37.	355.	2.	43.	349.	228.	137.	
29	197.	163.	153.	157.	165.	160.	182.	189.	219.	231.	262.	228.	224.	229.	225.	224.	224.	217.	236.	240.	237.	201.	176.	176.	205.	
30	159.	160.	163.	143.	146.	130.	145.	178.	183.	210.	213.	274.	229.	246.	245.	235.	251.	287.	330.	125.	133.	101.	7.	28.	180.	

MONTHLY AVERAGE = 159.86

SIGMA THETA FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN DEGREES

NOTE: ALL TIMES ARE PST!

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.
1	18.8	7.5	10.2	21.9	43.5	8.9	9.1	10.1	15.9	14.5	16.1	19.1	14.4	12.4	8.8	9.1	10.7	15.3	11.6	44.8	16.8	20.2	30.6	9.3	16.7
2	32.6	29.2	34.9	29.4	12.6	9.0	30.7	24.3	24.2	12.0	39.3	16.1	30.0	29.3	18.4	26.7	27.3	44.7	13.3	14.9	14.1	8.1	7.0	7.3	22.3
3	15.1	13.4	7.3	9.9	11.3	12.5	12.0	8.9	11.4	20.4	12.1	9.6	9.6	10.3	9.1	12.4	12.8	13.2	17.8	9.9	8.2	9.6	12.5	7.5	11.5
4	8.6	6.8	6.7	12.5	19.5	19.3	13.7	14.1	17.2	20.8	29.2	43.2	37.1	31.0	55.3	36.1	22.6	13.2	13.5	4.7	10.7	17.5	12.6	15.9	20.1
5	7.1	10.2	10.3	15.8	16.9	26.0	8.1	10.5	23.8	26.9	28.5	36.5	19.8	35.5	14.0	41.5	23.4	9.2	13.3	7.9	17.1	31.1	11.5	9.5	18.9
6	9.3	11.3	16.7	18.4	7.6	13.0	8.5	10.2	10.6	14.1	21.3	17.1	38.0	56.5	40.8	36.0	15.0	9.2	6.9	6.3	8.5	8.6	8.4	9.7	16.7
7	9.0	10.3	8.0	8.8	8.2	8.1	7.9	15.5	40.0	36.5	25.8	13.9	11.2	10.9	12.2	12.6	12.9	13.3	7.4	23.1	17.0	17.6	36.0	14.7	15.9
8	20.8	10.5	17.8	11.8	18.3	11.2	26.5	13.3	14.1	23.0	29.8	44.9	26.2	37.6	31.9	32.4	27.6	12.3	10.9	15.7	7.1	15.6	19.3	14.9	20.6
9	20.9	8.8	6.3	5.1	5.2	21.1	7.7	19.9	24.3	49.0	39.9	26.4	30.0	21.3	32.4	22.3	35.1	18.2	11.9	18.3	15.7	8.9	14.9	24.1	20.3
10	9.7	15.3	9.4	8.1	8.6	13.4	11.3	24.6	16.0	19.0	16.8	13.0	18.2	15.7	17.4	9.8	11.9	14.8	15.2	9.3	8.8	9.6	10.1	12.6	13.3
11	14.6	10.7	8.6	12.7	10.0	11.4	16.1	14.5	16.3	16.1	14.4	13.7	11.6	15.0	11.1	11.3	10.2	9.9	8.9	11.4	10.8	9.4	10.6	14.5	12.2
12	17.8	11.9	9.7	13.1	13.7	14.2	8.9	11.0	15.5	14.5	30.0	22.7	18.7	16.1	19.2	19.7	28.6	26.2	11.4	12.2	5.9	8.9	15.8	26.0	16.3
13	22.1	9.4	27.8	17.1	15.6	16.0	45.6	15.4	15.1	12.0	13.8	14.3	10.2	18.9	26.6	36.4	30.2	22.1	18.9	16.0	13.3	10.3	20.2	20.2	19.5
14	13.7	14.2	12.6	21.4	32.8	46.8	21.7	14.6	16.3	16.9	19.3	35.1	23.4	29.7	17.0	26.1	20.9	14.6	45.5	13.6	15.4	9.8	19.1	30.9	22.1
15	38.0	12.5	8.6	9.0	23.4	27.7	13.9	16.2	18.5	48.5	26.9	27.9	49.2	41.3	44.6	28.5	18.8	17.2	9.0	10.4	8.2	34.1	45.0	38.4	25.7
16	15.9	17.9	38.9	12.9	16.2	14.9	26.7	29.1	53.6	22.2	19.4	12.3	10.1	18.3	19.3	12.2	14.0	14.5	13.1	12.9	7.9	8.3	8.9	26.2	18.6
17	23.3	13.6	12.3	31.8	22.3	14.9	21.8	11.9	13.5	34.3	29.8	19.1	21.2	25.2	18.2	16.3	12.7	14.4	17.6	58.9	61.0	52.5	61.2	22.5	26.3
18	59.1	45.2	15.9	7.2	9.3	7.4	11.5	45.2	54.9	20.9	13.0	16.0	14.9	13.0	16.1	13.5	17.0	15.1	14.5	12.2	7.6	7.7	15.9	9.2	19.3
19	8.2	14.0	17.5	10.8	12.6	11.0	9.9	10.6	34.6	13.3	21.5	21.6	18.5	27.2	28.9	22.1	30.5	17.2	14.4	17.1	9.4	8.3	7.8	14.7	16.7
20	13.2	7.5	13.9	9.7	9.1	23.4	17.9	14.8	32.9	47.1	35.3	17.3	24.0	23.1	15.0	12.4	12.7	8.9	5.5	13.7	7.6	18.2	7.8	11.3	16.8
21	13.1	35.4	13.0	12.9	11.7	10.0	8.9	18.2	25.6	53.4	31.9	13.6	12.4	16.0	10.8	13.3	16.5	14.0	13.6	57.3	10.2	17.5	14.4	20.1	19.3
22	9.9	7.5	6.8	11.1	8.6	14.1	11.1	15.9	38.1	36.2	56.2	53.9	36.7	35.4	35.4	28.2	44.7	13.9	7.1	29.1	29.1	10.9	7.6	9.5	23.2
23	9.4	8.2	8.3	8.2	8.7	8.0	11.8	17.5	21.1	16.4	18.6	15.3	13.7	16.2	11.5	15.7	15.5	16.7	25.6	14.8	15.6	13.8	8.1	15.0	13.9
24	11.7	11.6	8.8	9.6	9.6	8.4	8.9	10.5	11.9	11.4	15.8	15.9	15.0	26.8	15.5	12.6	11.9	14.7	12.6	10.2	11.4	11.6	8.6	9.0	12.2
25	9.3	12.9	17.5	18.5	21.4	17.1	11.7	16.4	21.3	28.3	23.1	33.2	30.1	22.5	19.7	19.7	20.8	10.7	27.6	7.0	26.4	8.8	9.0	8.9	18.4
26	15.2	12.4	10.7	12.6	10.3	16.4	17.5	15.4	26.1	21.5	27.8	41.0	36.7	48.8	58.2	25.9	8.2	7.7	14.1	21.2	10.1	17.6	30.0	31.5	22.4
27	30.7	10.0	9.3	9.8	9.6	10.8	9.7	8.7	14.4	47.3	52.1	35.3	27.3	26.5	13.7	15.1	11.1	16.0	15.4	12.3	12.3	11.3	11.6	11.1	18.0
28	17.4	19.6	14.7	14.6	12.3	14.0	10.6	10.0	13.7	13.2	13.5	17.1	27.4	10.0	10.8	11.1	11.7	12.3	12.0	11.6	14.8	30.6	36.5	43.0	16.8
29	10.2	10.5	10.5	6.6	11.1	13.8	9.2	14.9	30.5	29.4	24.3	25.0	18.4	20.4	11.0	15.6	18.5	17.7	9.1	7.9	15.4	10.3	12.3	11.6	15.2
30	11.3	8.5	16.2	8.6	14.6	7.6	12.4	18.4	22.4	30.4	40.0	57.9	38.4	33.1	34.3	29.6	34.6	15.7	13.7	11.7	10.6	20.3	15.0	10.3	21.5

MONTHLY AVERAGE = 18.35

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

NOTE: ALL TIMES ARE PST!

IN DEGREES C

DAY	1	2	3	4	5	6	7	8	9	HOUR ENDING		12	13	14	15	16	17	18	19	20	21	22	23	24	AVG
										10	11														
1	4.9	5.3	5.2	5.2	5.3	5.3	5.1	5.2	6.1	7.0	7.9	8.9	9.7	9.4	8.4	7.2	6.8	6.2	5.9	6.1	5.3	4.8	4.5	4.5	6.3
2	4.3	4.4	5.2	5.2	4.9	4.8	4.8	4.9	6.0	6.4	7.7	8.6	9.9	10.0	10.8	11.2	11.4	11.4	10.3	9.0	7.9	7.6	7.4	7.1	7.5
3	6.7	6.2	5.6	5.5	5.0	5.2	5.7	5.8	6.8	9.6	10.1	7.7	7.1	7.2	8.7	9.2	7.9	8.0	7.3	7.0	6.4	5.8	5.2	4.3	6.8
4	4.0	3.8	4.0	4.6	4.6	4.7	4.9	5.6	6.3	7.4	8.4	8.9	10.1	10.3	11.1	11.7	11.5	10.9	9.8	8.7	7.4	6.2	4.7	4.2	7.2
5	3.4	3.1	2.8	3.1	2.5	2.0	3.0	4.3	6.8	9.2	10.9	12.2	12.5	13.4	12.4	13.9	12.9	12.2	11.4	10.3	9.5	8.2	6.6	5.9	8.0
6	5.9	6.4	6.2	6.1	5.9	5.6	4.8	4.9	5.2	5.6	6.2	6.8	8.3	9.8	10.9	11.5	11.3	10.8	9.7	8.8	7.4	6.3	5.7	5.3	7.3
7	4.9	4.4	3.9	4.1	4.3	4.6	4.9	5.6	6.2	7.0	7.6	9.1	9.7	10.8	11.3	11.8	11.7	11.9	11.1	10.2	9.7	9.4	8.6	8.1	7.9
8	7.6	7.7	7.4	7.6	7.3	7.5	7.3	7.5	8.2	9.6	10.9	12.3	12.4	13.3	14.2	14.3	13.1	13.3	12.0	10.0	9.2	9.1	8.5	8.1	9.9
9	6.0	6.0	7.0	7.1	6.9	5.8	6.7	7.8	9.1	11.2	12.4	13.5	14.4	14.9	15.6	15.9	15.0	12.2	11.1	11.1	10.6	10.4	9.9	9.1	10.4
10	8.6	8.3	7.4	7.3	7.0	7.4	7.4	8.9	10.6	11.4	11.9	12.3	12.5	13.0	12.8	10.8	9.4	8.5	8.2	8.6	8.0	7.4	7.2	6.8	9.2
11	6.1	5.6	5.0	4.9	4.6	4.5	4.9	5.2	6.5	7.6	8.7	8.4	8.8	8.7	8.8	8.9	9.0	8.3	8.1	6.8	5.8	5.6	5.3	5.2	6.7
12	5.2	4.9	4.7	5.0	5.1	4.9	5.2	5.8	7.1	8.0	8.5	9.5	9.9	10.8	11.1	10.9	11.1	10.7	9.8	9.1	8.2	7.9	7.2	7.4	7.8
13	7.1	6.9	6.7	7.0	6.8	5.8	5.9	6.8	8.6	10.0	10.1	9.9	8.4	8.1	7.9	7.6	5.2	3.5	3.3	2.9	2.7	2.5	2.3	2.3	6.2
14	2.1	2.2	2.2	2.5	2.8	3.0	3.2	3.5	4.5	5.4	6.6	8.1	9.4	10.1	7.4	5.1	5.6	5.5	5.0	4.5	4.0	3.4	3.7	4.0	4.7
15	4.4	4.0	3.8	3.2	3.0	2.6	3.3	5.1	6.0	7.5	8.8	9.9	10.7	11.1	11.7	12.0	11.7	11.3	10.3	8.6	7.7	7.6	7.4	6.9	7.4
16	5.8	4.6	4.3	4.0	3.4	3.5	4.9	6.8	8.8	10.7	12.7	13.5	14.5	15.8	16.5	16.7	16.7	16.3	15.3	13.2	11.8	11.3	10.0	9.5	10.4
17	9.7	9.0	9.3	8.1	7.6	6.8	7.2	8.4	10.7	12.1	14.3	15.0	16.2	17.5	18.2	18.0	17.2	15.7	14.2	13.6	12.9	12.1	11.8	11.1	12.4
18	10.3	9.8	8.8	7.7	6.3	5.9	6.2	8.9	11.6	13.6	14.9	16.2	17.2	17.6	17.9	17.8	17.4	16.4	15.1	13.6	12.6	11.7	11.2	10.2	12.5
19	9.1	8.1	8.4	8.3	6.8	6.2	6.4	8.4	11.6	13.6	15.7	17.2	18.3	19.6	20.0	20.1	20.2	19.4	17.8	15.9	14.1	13.6	12.7	12.3	13.5
20	11.6	10.8	11.4	9.8	10.3	10.1	11.0	11.8	13.8	15.9	17.6	18.6	20.0	21.1	21.6	21.9	21.7	20.7	19.1	17.7	16.2	15.3	13.7	13.3	15.6
21	12.9	13.5	11.3	10.9	10.7	9.4	9.5	10.6	11.7	13.2	14.6	14.9	14.9	15.2	14.8	13.4	10.4	7.7	7.0	6.7	5.9	5.1	4.8	5.0	10.6
22	5.0	5.0	4.9	5.1	5.0	4.9	5.3	6.2	7.4	8.8	9.9	11.0	11.1	11.9	12.6	12.8	13.1	12.3	11.4	10.3	9.3	8.1	8.1	7.5	8.6
23	6.7	6.1	5.8	5.6	5.4	5.3	6.3	7.4	8.7	9.8	10.2	10.8	9.2	8.1	8.2	8.8	7.4	7.4	7.2	6.5	6.4	5.7	5.3	5.5	7.2
24	5.3	5.4	4.9	4.8	4.8	5.1	5.5	7.2	8.3	8.2	7.6	7.0	7.8	6.2	7.1	7.3	8.0	7.1	6.5	6.5	5.7	5.8	5.9	5.6	6.4
25	5.5	5.5	5.5	5.0	3.9	4.1	4.5	5.5	6.5	7.6	8.9	9.3	10.5	9.2	9.9	10.5	10.3	10.3	9.6	8.9	7.5	6.7	6.5	5.9	7.4
26	5.2	4.3	4.6	4.0	4.1	4.2	5.1	7.1	8.8	10.1	11.2	12.1	12.8	13.4	14.5	14.6	13.6	12.9	12.4	12.0	11.4	10.8	10.6	10.6	9.6
27	10.2	9.9	9.8	10.1	10.4	10.7	11.0	11.9	14.2	16.7	18.4	20.1	21.4	22.6	23.0	23.4	23.6	23.9	24.1	22.6	21.9	21.5	21.3	20.9	17.6
28	20.0	17.8	15.3	13.8	13.8	13.8	13.6	13.4	12.8	12.9	13.2	13.2	10.8	9.3	9.2	8.6	8.0	8.1	8.0	8.0	8.4	8.1	8.2	8.3	11.5
29	8.1	7.4	7.2	7.1	7.2	7.1	7.6	8.1	9.1	10.3	10.8	12.4	13.6	13.9	13.8	14.4	14.5	14.4	13.6	12.1	10.9	9.9	9.3	8.9	10.5
30	7.8	7.6	7.5	7.3	7.0	7.1	8.0	9.0	10.2	11.2	12.5	13.2	14.1	14.6	15.4	15.8	15.8	14.9	13.6	13.4	12.6	12.3	11.4	10.4	11.4

MONTHLY AVERAGE = 9.30

BAROMETRIC PRESSURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN INCHES HG

NOTE: ALL TIMES ARE PST!

DAY	HOUR ENDING																								AVG
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.5	29.5	29.4
2	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
3	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2
5	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.9	28.9
6	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9
7	29.0	28.9	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.0
8	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.2
9	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.2
10	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	29.0
11	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.3	29.1
12	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.3
13	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.1
14	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.6	29.6	29.4
15	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.7	29.7	29.7	29.7	29.7	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
16	29.6	29.6	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.4	29.3	29.5
17	29.4	29.4	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
18	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
19	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.3
20	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1
21	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.3	29.1
22	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3
23	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9	29.0	29.0	28.9	29.0
24	28.9	28.9	28.9	28.9	28.9	28.9	28.9	29.0	28.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
25	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.1
26	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3
27	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.3
28	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2
29	29.3	29.3	29.3	29.3	29.3	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
30	29.4	29.4	29.4	29.5	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.4

MONTHLY AVERAGE = 29.23

PRECIPITATION FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN INCHES

DAY										HOUR ENDING			NOTE: ALL TIMES ARE PST!																	TOT
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.04					
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02					
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06					
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04					
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01					
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.04	0.04	0.07	0.06	0.05	0.05	0.42					
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01					
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.04	0.12	0.03	0.03	0.07	0.06	0.06	0.03	0.02	0.53					
14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.01	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.16					
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.09	0.05	0.00	0.00	0.00	0.18					
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.01	0.05	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.19					
24	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.05	0.02	0.07	0.18	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44					
25	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05					
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
27	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05					
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.02	0.02	0.00	0.07						
29	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01						
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

MONTHLY TOTAL = 2.28

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF APRIL , 2015

IN MPH/DIR

	HOUR												ENDING												NOTE: ALL TIMES ARE PST!											
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24												
1	5S	7S	6S	2S	2S	7SW	6SW	7S	6S	6S	6S	5SW	8S	9S	12S	9SW	8S	5SE	5SE	4SE	5NE	3E	2SE	3SE												
2	3SE	2E	2S	2SE	4SW	3SW	2E	3SE	3S	5SW	2S	4SE	4SW	4N	4N	5N	3N	2W	4W	3NW	3SE	5SE	5SE	4SE												
3	4SE	4SE	6SE	5S	5SE	5S	5S	6SW	6S	6S	8SW	14SW	9S	10S	13SW	14SW	14SW	7S	4SE	4SE	5SE	5S	3SE	5SE												
4	5SE	5SE	4SE	4S	2SE	2S	3E	3SE	3SE	6S	5SW	3SW	4SW	4SW	3W	6W	6W	7W	4NW	3NE	3E	4SE	4S	4S												
5	5S	6S	5SE	3SE	2SE	2NE	2NE	2NE	2N	3N	4N	4NW	7W	5W	10W	6N	7NE	5N	4NE	4NE	4NE	6SE	7SE	6SE												
6	5S	3S	3SE	3S	6SW	4S	6SE	6SE	6SE	6SE	6SE	4E	3E	2NE	3W	2NE	7N	7N	6NE	5NE	5NE	7NE	9NE	7NE												
7	9NE	8NE	6NE	7NE	6NE	5NE	5NE	2NE	2NE	2SW	3N	6N	11N	9N	9N	8NE	6N	4N	5NW	5NW	2E	2E	1N	2N												
8	2SE	3S	2S	1SE	2E	3S	3SE	3SE	3SE	3S	3SW	4W	4NW	5N	3NE	7N	5SE	7SW	8SW	6SE	4E	2NE	1SE	1SE												
9	6SW	4E	4SE	4SE	4S	2E	1NW	1SW	2W	2W	4W	6W	7W	7W	5W	7NW	8W	6E	7SE	3E	6SE	6SE	6S	3SE												
10	3W	2SW	4S	6S	3SE	4S	4S	3S	5S	7S	8S	8SW	8SW	13SW	12SW	16SW	9SW	4S	5SE	12S	12S	10S	9S	12S												
11	8S	9S	8SE	7SE	9S	8S	9S	10S	9S	13SW	15SW	17SW	21SW	17SW	18SW	19SW	17SW	16SW	18SW	11SW	9S	11S	13S	12SW												
12	7S	9S	7S	6S	4S	5S	7S	6S	9SW	8SW	6SW	7SW	8SW	9SW	9SW	7SW	4SW	5SW	4W	2N	3NE	3NE	3E	2SE												
13	4E	5SE	3E	3SE	5SE	6SW	3SE	6S	7S	10SW	12SW	12SW	10SW	5S	4SE	6S	8N	5N	5N	4N	4SE	5SE	6SE	5S												
14	4SE	4SE	3SE	3SE	4SE	4SE	4E	6SE	7SE	6S	5S	4SW	7SW	7W	16W	5NE	7N	4N	3SE	4E	4SE	5SE	5E	4E												
15	3E	4E	4SE	3E	2NE	2E	1S	3SE	4SW	2S	4NW	6NW	5N	5N	5N	6N	7N	6N	6N	5N	6N	3NE	2SE	1E												
16	2E	3NE	2S	2SE	2SE	2SE	1SE	1N	1NE	4N	8N	8NE	11NE	8N	9N	10N	9N	7N	6N	5NE	8NE	9NE	6NE	4E												
17	2N	2NE	2SE	3N	4N	3NE	3N	9NE	9NE	4E	6W	10NW	10N	7N	8NW	10NW	11NW	10NW	5NW	2NE	2N	4N	4NW	8N												
18	6N	2N	5NE	4NE	5NE	8NE	6NE	2NE	1E	6N	11N	9NW	8NW	10NW	10NW	9NW	8N	7N	4N	6NE	8NE	12NE	8NE	6NE												
19	6NE	3NE	4SE	2SE	3N	4NE	5NE	5NE	3NE	5NE	6N	8N	8NE	7N	7N	9N	6N	8N	7N	4N	8NE	9NE	7NE	2NE												
20	1NE	3N	2N	1NE	1SE	2S	1E	2NE	1NW	2NW	3NW	7W	6W	6W	8W	9W	8NW	7NW	6NW	5N	8NE	5N	10NE	9NE												
21	8NE	7NE	6S	3E	3S	4S	5SE	5S	4SW	2SW	4W	8W	9W	6W	8SW	9W	8N	14NE	11NE	8N	11NE	11NE	11NE	6E												
22	5E	4SE	6SE	6S	8S	5SE	5SE	5SE	3SE	4E	4SW	3NW	4W	4NW	6NW	4NW	5W	7W	6W	5NW	3SW	4W	7SW	7S												
23	9S	8SE	8SE	7SE	5SE	5SE	5SE	6SE	8S	10S	10SW	10S	10SW	5SE	8SE	9S	12SW	8S	7S	6S	6S	5S	6S	6SE												
24	7S	8S	8S	8SE	8SE	9S	9S	11S	12S	14S	11SW	9S	9SE	6S	7SE	9SE	9SE	8SE	7SE	8SE	8SE	6SE	7S	5S												
25	4SE	3S	3S	7N	7NE	3E	4S	4SE	5SE	5SE	5SE	5SW	6SW	9NE	9NE	8N	7N	9NE	5W	3SW	3SE	3E	2NE	2SE												
26	2SE	4S	4SE	3SE	4SE	3SE	4SE	3SE	2S	4SW	3SW	3SW	2NW	4SW	4SW	7W	9W	7SW	3W	1S	5SW	3S	2SE	2SE												
27	3SE	6SE	7SE	7SE	8SE	7SE	6SE	6E	5E	4SE	2NE	3NW	5NW	5NW	8NE	9N	9N	8NE	8SE	11SE	14SE	17SE	18SE	19SE												
28	14S	8S	9SW	6S	6SE	7S	8SW	6S	6SE	5S	5SE	8S	9N	10NE	9NE	10N	8N	8N	6NE	3N	2N	3NE	1N	5SW												
29	8S	6S	6SE	8SE	6S	5S	7S	5S	5SW	4SW	5W	7SW	11SW	11SW	10SW	11SW	12SW	11SW	12SW	10SW	8SW	8S	6S	8S												
30	6S	7S	3S	5SE	4SE	5SE	5SE	6S	7S	6SW	5SW	4W	5SW	6SW	5SW	5SW	4W	5W	3NW	3SE	3SE	2E	3N	5NE												

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN MILES PER HOUR

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.
1	6.7	3.7	3.9	5.0	8.5	2.9	2.9	3.4	2.3	3.2	6.3	6.8	6.6	6.1	7.0	6.8	8.7	9.9	10.0	7.9	5.8	5.6	5.0	6.6	5.9
2	5.8	9.2	5.6	7.1	4.3	6.8	8.0	12.2	9.2	8.8	8.5	8.8	7.2	8.9	8.4	7.9	8.7	10.6	11.0	11.6	8.0	7.5	10.7	8.8	8.5
3	2.0	2.9	3.5	0.6	1.8	2.1	0.8	1.2	3.0	4.4	4.3	5.6	5.2	6.8	8.1	9.2	7.5	7.0	6.1	5.3	3.5	4.8	4.5	2.0	4.3
4	2.6	1.7	5.6	6.6	6.9	5.2	5.8	6.4	9.5	11.2	11.2	14.1	15.5	14.7	14.1	14.7	13.9	13.3	12.6	10.0	11.5	9.3	8.2	6.5	9.6
5	5.7	7.4	5.6	6.1	9.3	9.5	10.8	10.2	13.5	15.4	14.9	15.8	15.1	13.4	13.3	6.9	8.8	10.1	6.4	4.7	3.8	3.7	3.4	3.2	9.0
6	3.0	3.5	3.4	2.4	3.1	1.2	0.8	1.6	2.2	5.4	5.1	6.1	6.6	5.4	3.7	8.6	9.5	9.0	7.6	5.9	3.7	4.5	4.0	1.5	4.5
7	2.3	1.7	1.2	3.1	1.2	3.3	2.0	1.9	5.9	7.2	6.1	7.5	7.3	7.2	9.1	6.5	6.2	5.7	6.7	7.3	2.9	4.5	4.2	4.7	4.8
8	2.4	1.8	1.5	0.9	0.9	0.8	1.3	1.5	2.1	3.8	5.3	7.8	8.1	7.3	8.1	8.1	6.6	7.3	7.2	4.6	2.6	3.2	2.6	2.2	4.1
9	3.1	3.0	3.5	2.7	1.4	1.8	2.0	1.4	2.0	4.6	5.3	4.5	4.3	5.8	6.5	4.7	4.8	4.4	4.7	3.4	4.8	7.3	8.8	4.2	4.1
10	3.4	2.5	3.5	5.4	3.6	3.7	3.9	3.9	3.7	2.8	2.9	4.8	8.5	7.7	7.0	7.1	6.1	6.9	6.8	9.1	7.0	5.7	6.6	8.4	5.5
11	5.9	5.7	6.4	6.3	6.0	5.2	5.7	6.3	5.7	5.1	6.6	4.8	4.9	5.0	3.6	7.1	5.3	3.4	3.9	3.1	2.3	4.0	2.4	1.5	4.8
12	2.1	2.3	3.2	3.7	2.4	3.3	3.8	5.6	4.2	3.6	4.3	4.8	5.6	3.3	3.5	4.0	5.1	5.8	6.1	6.3	5.0	5.1	3.8	4.5	4.2
13	5.6	6.8	5.6	4.4	5.5	6.1	6.8	7.9	8.0	8.6	7.0	6.9	7.4	7.4	6.6	7.5	4.8	4.3	3.0	3.4	3.8	3.8	0.7	1.1	5.5
14	1.4	1.0	1.6	1.5	1.1	1.6	2.3	2.3	3.0	4.7	4.8	6.4	6.8	7.8	4.6	5.7	6.4	5.3	4.7	5.7	3.6	5.5	5.0	4.7	4.1
15	4.9	4.5	2.8	3.3	3.3	2.5	2.7	3.5	3.4	3.3	4.8	4.2	5.3	5.7	3.0	5.9	4.5	3.1	9.0	9.6	6.9	6.3	5.2	6.9	4.8
16	5.2	4.7	4.9	6.1	6.6	6.1	4.7	4.5	5.3	4.1	5.2	4.1	2.6	2.7	2.4	2.2	3.4	3.1	2.5	2.8	3.5	4.0	3.0	3.3	4.0
17	3.3	3.4	2.9	0.8	1.8	2.4	1.2	1.0	1.9	2.6	4.5	4.9	4.4	2.1	2.4	1.9	2.2	3.1	3.3	2.0	1.8	2.0	3.7	2.0	2.6
18	4.4	5.6	6.0	5.0	4.3	3.3	1.1	1.8	2.7	5.4	6.3	7.2	8.5	7.8	8.2	11.3	9.8	8.1	7.7	2.7	2.2	2.1	7.7	6.0	5.6
19	3.3	5.4	3.8	3.2	2.8	3.1	2.4	2.6	2.7	3.6	4.1	3.9	4.5	5.6	5.2	5.3	3.6	6.8	4.8	6.9	4.8	5.9	6.2	5.2	4.4
20	5.3	5.4	3.7	2.5	2.5	4.1	4.6	4.0	3.3	3.8	5.3	6.7	6.1	5.6	5.6	5.7	7.2	6.2	6.2	4.3	2.1	1.6	1.8	3.6	4.5
21	2.9	3.5	2.4	3.0	0.5	0.9	1.8	2.8	3.0	5.3	8.5	8.3	7.9	8.9	7.2	5.5	3.7	3.2	5.3	4.5	2.6	4.2	4.5	5.9	4.4
22	6.2	5.5	6.4	3.0	4.7	4.6	6.4	5.7	6.1	6.4	4.9	6.1	5.2	6.2	4.4	5.7	5.3	5.1	5.6	5.9	4.4	2.8	4.5	7.9	5.4
23	6.7	5.4	5.7	5.1	5.6	4.9	3.5	3.9	4.8	4.5	4.1	5.3	3.8	3.8	5.8	3.8	5.1	4.3	4.5	3.0	3.6	3.5	4.6	3.5	4.5
24	4.6	4.2	3.0	2.3	3.0	2.7	4.4	3.2	2.9	3.1	3.2	2.9	3.9	2.7	2.8	2.7	3.1	5.4	7.2	4.7	3.2	2.5	4.5	6.0	3.7
25	5.1	3.9	4.3	4.5	5.1	4.1	4.5	4.9	4.4	6.6	6.0	4.9	4.5	4.0	4.1	4.4	3.1	2.0	1.8	2.0	3.8	4.7	3.1	3.2	4.1
26	3.3	4.4	4.4	2.5	2.3	2.5	1.2	2.1	1.8	2.3	4.1	5.9	5.6	6.1	4.0	3.7	3.8	2.8	2.6	3.2	2.5	2.1	2.1	1.8	3.2
27	2.0	2.5	2.0	3.8	4.1	3.2	3.7	1.5	1.2	3.1	3.5	4.7	7.3	7.1	8.4	7.4	9.2	8.1	6.5	4.7	3.2	4.3	2.2	4.4	4.5
28	4.0	3.1	4.4	4.6	3.6	2.8	2.4	2.1	2.6	5.8	4.9	6.5	6.4	7.7	7.8	7.3	6.1	9.1	6.4	4.2	7.8	8.0	5.6	3.4	5.3
29	4.8	2.5	1.0	2.8	2.5	2.9	2.7	1.9	2.7	4.2	6.1	6.2	5.2	6.4	7.8	8.7	9.4	9.4	7.7	4.4	5.2	5.2	5.5	3.6	4.9
30	5.7	3.1	3.4	3.6	2.4	3.2	3.9	4.0	4.3	4.3	4.5	5.5	5.5	6.3	4.9	4.2	6.0	5.5	4.2	3.1	3.1	2.5	3.6	4.0	4.2
31	4.1	2.0	1.6	2.9	2.4	2.5	1.9	3.1	3.4	5.6	2.7	5.0	5.2	5.7	8.3	8.7	9.3	7.7	4.3	8.0	2.9	5.3	3.7	2.2	4.5

MONTHLY AVERAGE = 4.96

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN DEGREES

(MEASURED CLOCKWISE FROM NORTH)																										
										HOUR ENDING																
										NOTE: ALL TIMES ARE PST!																
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.	
1	43.	38.	27.	18.	40.	103.	172.	225.	288.	308.	264.	291.	306.	276.	254.	295.	348.	349.	5.	25.	21.	342.	338.	18.	183.	
2	26.	37.	28.	18.	41.	41.	40.	36.	19.	19.	316.	353.	336.	18.	350.	347.	346.	325.	324.	358.	357.	6.	7.	22.	157.	
3	357.	37.	29.	260.	76.	41.	255.	282.	9.	41.	13.	12.	320.	312.	300.	292.	294.	289.	295.	339.	26.	54.	58.	94.	170.	
4	108.	99.	154.	161.	178.	175.	192.	190.	180.	206.	207.	215.	226.	208.	212.	240.	237.	248.	242.	230.	235.	200.	183.	168.	196.	
5	159.	164.	155.	143.	171.	164.	183.	180.	198.	205.	213.	218.	210.	199.	189.	156.	50.	26.	42.	41.	83.	120.	98.	78.	143.	
6	31.	23.	28.	48.	29.	34.	252.	22.	38.	29.	22.	14.	313.	36.	23.	332.	334.	329.	319.	8.	24.	37.	50.	106.	103.	
7	100.	358.	136.	176.	94.	213.	240.	260.	21.	1.	358.	347.	356.	332.	318.	330.	340.	337.	342.	347.	16.	31.	29.	52.	214.	
8	56.	150.	102.	329.	72.	308.	130.	281.	318.	328.	40.	324.	320.	5.	8.	13.	343.	333.	320.	331.	22.	62.	162.	77.	185.	
9	150.	169.	188.	150.	154.	114.	184.	240.	326.	280.	276.	282.	267.	262.	292.	314.	290.	301.	307.	5.	22.	40.	38.	84.	197.	
10	194.	152.	130.	181.	189.	181.	191.	178.	218.	232.	247.	274.	277.	263.	232.	251.	265.	263.	250.	250.	236.	193.	204.	185.	218.	
11	171.	180.	205.	196.	159.	141.	145.	161.	185.	220.	231.	234.	200.	212.	228.	242.	203.	216.	143.	159.	163.	168.	99.	248.	188.	
12	244.	267.	241.	258.	216.	236.	216.	198.	200.	198.	214.	194.	241.	216.	123.	186.	143.	145.	141.	128.	126.	140.	126.	138.	189.	
13	176.	219.	193.	160.	174.	175.	184.	184.	169.	168.	162.	185.	186.	152.	176.	187.	162.	139.	123.	126.	114.	129.	139.	188.	165.	
14	249.	358.	34.	20.	1.	15.	42.	32.	11.	346.	307.	291.	347.	26.	346.	23.	17.	342.	332.	336.	32.	38.	34.	41.	151.	
15	55.	36.	27.	57.	166.	215.	186.	154.	215.	261.	215.	234.	240.	231.	242.	151.	108.	123.	238.	234.	239.	253.	245.	226.	181.	
16	220.	217.	206.	171.	182.	193.	173.	139.	172.	143.	190.	132.	135.	176.	199.	183.	203.	187.	148.	168.	162.	160.	155.	176.	175.	
17	207.	254.	245.	212.	204.	263.	294.	313.	234.	274.	288.	298.	317.	60.	58.	17.	290.	67.	103.	70.	29.	22.	27.	44.	175.	
18	35.	33.	31.	33.	36.	45.	21.	266.	290.	274.	280.	264.	266.	296.	302.	295.	303.	293.	300.	166.	60.	18.	33.	34.	166.	
19	83.	184.	191.	203.	221.	208.	227.	216.	258.	220.	243.	288.	276.	271.	270.	252.	284.	295.	323.	287.	285.	266.	221.	208.	241.	
20	214.	225.	220.	202.	295.	282.	285.	290.	287.	281.	275.	264.	256.	281.	259.	295.	314.	299.	268.	257.	355.	176.	44.	37.	248.	
21	66.	105.	140.	226.	357.	25.	207.	215.	254.	282.	266.	268.	270.	277.	292.	298.	352.	54.	150.	169.	147.	214.	206.	217.	211.	
22	214.	196.	220.	190.	197.	199.	197.	193.	203.	191.	154.	201.	208.	206.	260.	265.	264.	250.	227.	228.	260.	255.	206.	159.	214.	
23	142.	130.	131.	163.	160.	178.	179.	157.	155.	141.	192.	198.	230.	248.	259.	239.	229.	220.	239.	267.	247.	224.	242.	273.	202.	
24	261.	255.	243.	172.	192.	178.	166.	172.	166.	193.	201.	179.	200.	274.	305.	255.	246.	261.	251.	267.	240.	239.	266.	252.	226.	
25	240.	205.	181.	177.	181.	164.	172.	189.	191.	199.	210.	225.	190.	219.	259.	243.	233.	232.	41.	333.	307.	286.	259.	267.	217.	
26	290.	273.	246.	252.	280.	264.	204.	232.	268.	199.	269.	283.	292.	285.	313.	116.	135.	137.	120.	135.	85.	51.	100.	69.	204.	
27	190.	188.	144.	164.	172.	154.	221.	242.	324.	325.	326.	333.	302.	309.	299.	302.	296.	308.	311.	316.	30.	47.	82.	154.	231.	
28	111.	129.	169.	163.	186.	213.	200.	238.	254.	270.	276.	277.	305.	292.	292.	306.	316.	304.	313.	2.	36.	35.	26.	34.	198.	
29	72.	102.	74.	174.	160.	182.	192.	202.	236.	247.	260.	274.	244.	264.	280.	262.	249.	257.	254.	239.	269.	241.	253.	231.	217.	
30	252.	219.	166.	224.	230.	206.	209.	210.	217.	218.	227.	237.	253.	243.	256.	250.	278.	233.	220.	298.	43.	189.	175.	174.	218.	
31	203.	190.	177.	340.	310.	18.	313.	30.	331.	275.	292.	288.	290.	324.	14.	360.	13.	329.	351.	17.	358.	34.	75.	180.	213.	

MONTHLY AVERAGE = 193.42

SIGMA THETA FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN DEGREES

DAY	HOUR ENDING																								AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	9.3	15.8	7.2	9.1	11.8	24.1	15.3	17.9	38.5	55.7	25.5	28.6	18.6	36.1	17.5	22.8	15.9	13.5	14.6	18.3	34.6	33.7	38.9	18.6	22.6
2	20.5	10.9	19.1	11.9	24.3	10.9	11.2	9.5	11.8	15.5	21.8	26.9	26.2	20.4	22.0	25.2	19.6	9.1	9.0	9.1	13.5	10.8	8.7	21.9	16.2
3	26.7	28.1	19.0	35.9	35.1	6.3	22.4	24.1	25.9	27.4	30.9	35.3	36.5	27.0	20.8	15.1	14.2	9.9	6.6	10.7	14.0	6.3	46.3	21.5	22.7
4	11.7	18.4	9.2	7.6	6.4	9.5	7.9	15.2	14.5	14.8	12.2	14.3	11.2	14.4	16.1	12.9	14.3	13.2	9.4	11.2	9.1	7.7	7.7	12.5	11.7
5	10.2	11.1	10.9	9.8	8.7	8.1	9.5	10.5	12.6	11.4	12.9	17.9	12.0	14.4	13.5	47.9	50.7	25.8	10.5	8.6	10.6	11.5	16.5	14.6	15.4
6	5.7	7.8	8.0	23.1	8.1	36.3	44.1	17.4	20.7	16.1	19.1	20.3	30.4	22.4	33.8	19.8	16.3	13.7	8.4	8.3	8.7	10.4	16.8	32.3	18.7
7	32.1	34.2	31.0	11.1	45.3	8.6	14.4	52.7	18.7	26.1	34.5	27.0	32.0	23.6	21.5	26.8	26.1	15.7	9.3	6.6	18.3	12.5	18.2	15.9	23.4
8	17.9	28.4	19.2	44.3	16.8	20.0	27.9	37.8	32.2	42.4	20.2	20.5	18.8	26.7	19.1	18.3	20.2	14.1	10.4	24.0	25.1	11.9	22.2	24.2	23.4
9	13.4	20.0	12.2	10.9	32.2	17.2	13.8	30.5	23.3	20.3	23.3	28.8	39.1	25.4	18.8	23.5	22.8	13.9	8.4	20.3	16.7	9.0	8.5	19.7	19.7
10	23.4	24.8	27.4	10.4	28.7	11.1	10.4	24.6	23.7	42.7	53.4	36.6	12.1	14.6	18.8	13.4	13.6	11.1	9.0	8.9	11.8	14.1	9.1	9.2	19.3
11	11.2	9.9	10.8	8.3	8.0	10.1	10.2	14.3	17.7	17.9	10.2	12.9	18.7	11.9	25.5	8.4	12.9	22.2	31.0	15.6	20.9	17.8	26.7	39.0	16.3
12	18.3	9.6	15.5	8.9	19.4	9.2	12.4	8.4	9.5	10.9	14.6	10.9	12.0	29.4	15.9	10.7	12.9	9.5	11.9	9.5	10.1	9.4	10.7	12.8	12.6
13	12.9	11.8	11.9	15.8	12.9	8.9	8.1	8.7	12.1	11.1	11.6	8.5	11.1	10.3	14.0	9.6	14.4	19.5	13.6	11.8	7.9	22.0	20.4	21.7	12.9
14	28.2	10.3	7.3	5.9	19.2	16.7	12.3	24.3	23.1	26.9	22.1	14.9	16.8	11.3	19.6	16.5	12.1	17.0	13.0	7.8	11.8	8.1	11.5	9.6	15.3
15	8.5	6.2	12.3	12.8	15.8	14.3	15.7	11.6	16.4	26.5	19.0	30.8	27.4	23.3	33.3	24.0	13.3	14.5	11.6	9.5	10.1	7.8	7.7	9.5	15.9
16	12.5	11.3	12.6	10.4	9.9	10.4	10.1	11.6	13.6	20.3	15.0	19.0	20.8	25.5	26.3	38.0	18.5	16.2	10.9	15.7	12.2	9.2	11.0	11.0	15.5
17	11.7	8.2	11.0	27.7	14.2	13.0	24.8	28.2	51.3	33.0	21.2	19.0	12.6	33.3	41.6	31.3	28.8	17.8	10.0	9.7	9.1	16.7	11.3	12.9	20.8
18	9.2	8.0	8.6	7.7	7.3	8.8	22.4	41.7	38.3	23.4	20.0	19.9	17.1	20.1	18.4	11.9	9.1	9.0	17.8	25.4	31.8	54.2	9.2	11.3	18.8
19	21.3	12.3	9.9	10.7	6.6	9.5	19.3	27.1	22.0	20.5	23.1	39.9	34.7	28.2	31.5	34.2	38.7	23.0	20.1	6.0	8.3	8.9	6.4	6.6	19.5
20	4.9	8.3	8.4	11.7	11.6	7.7	7.7	13.4	17.1	15.6	15.7	15.3	20.0	18.5	24.5	18.9	12.0	21.0	7.8	22.0	14.3	31.0	13.3	8.4	14.6
21	13.3	13.3	24.6	31.9	20.0	15.1	30.5	30.1	31.1	28.3	14.3	17.7	17.6	21.9	19.2	11.3	13.3	25.6	14.4	12.6	11.3	16.9	12.0	9.6	19.0
22	7.2	6.3	6.1	27.5	12.3	11.8	9.5	12.5	13.7	16.8	29.7	15.9	16.6	20.2	14.7	14.0	11.7	9.5	9.3	9.8	12.4	18.8	12.9	11.6	13.8
23	10.2	10.3	8.9	12.6	9.3	10.8	13.9	13.2	13.7	11.7	16.0	15.1	35.7	32.7	21.3	24.7	14.6	16.8	11.1	12.1	9.2	7.9	8.5	11.5	14.7
24	9.5	9.9	14.1	20.4	7.9	12.2	11.8	14.4	17.7	22.8	23.0	43.5	38.0	34.2	28.0	25.0	28.4	8.6	9.1	10.5	13.9	19.2	9.5	8.8	18.3
25	9.5	12.1	13.8	13.0	10.6	13.8	16.6	12.3	23.0	19.5	23.3	22.9	24.4	28.2	21.9	19.9	19.9	29.0	13.5	7.0	4.7	4.3	8.0	11.3	15.9
26	8.5	7.6	7.9	17.2	11.2	10.8	25.4	26.0	34.2	48.7	23.3	21.4	24.8	26.9	16.8	28.5	11.0	11.7	16.4	9.4	13.6	12.7	13.4	19.9	18.6
27	25.5	15.5	17.5	10.5	19.1	13.1	12.2	32.6	52.8	43.0	34.9	38.5	23.7	18.0	19.7	19.1	14.6	11.6	8.0	14.9	8.7	5.4	33.0	20.5	21.4
28	9.4	18.6	8.6	8.9	6.9	11.8	17.0	28.7	42.0	21.1	27.7	25.0	20.3	22.3	16.1	20.9	19.3	10.7	6.2	12.8	10.0	7.4	20.9	22.0	17.3
29	13.1	26.1	40.4	11.0	25.8	11.7	27.4	38.8	36.4	35.0	23.0	21.7	25.2	19.9	18.0	19.6	14.5	9.1	9.5	10.2	12.3	9.4	7.0	13.1	19.9
30	5.5	13.7	26.0	9.7	15.9	8.5	17.7	19.7	23.5	52.5	36.3	37.2	30.5	38.6	30.2	52.3	17.6	19.8	13.6	7.8	6.7	36.8	12.5	9.2	22.6
31	11.7	30.7	18.8	7.6	41.4	35.1	32.6	21.3	26.4	24.8	43.3	38.4	29.5	21.2	17.9	21.5	14.4	12.6	21.6	15.0	47.5	10.2	14.6	37.6	24.8

MONTHLY AVERAGE = 18.12

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN DEGREES C

DAY	HOUR ENDING										NOTE: ALL TIMES ARE PST!														AVG
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	9.8	9.7	9.1	8.4	8.5	8.8	9.5	10.5	12.2	13.6	14.8	15.3	15.1	16.1	16.4	16.4	15.5	14.6	13.1	12.0	11.5	10.7	9.6	9.1	12.1
2	8.5	7.9	8.1	7.6	7.4	7.5	8.5	9.4	10.8	12.1	13.4	14.6	15.3	15.9	16.6	16.7	16.4	15.6	14.1	12.8	11.9	10.9	10.1	9.1	11.7
3	8.4	8.1	8.1	7.1	6.6	6.9	8.5	10.0	11.8	13.4	15.0	16.3	17.8	18.6	19.1	19.2	19.2	18.4	16.8	15.5	14.2	12.7	11.8	11.3	13.1
4	10.9	10.4	9.4	9.8	8.8	8.1	8.8	9.5	10.8	12.1	12.5	13.8	14.2	14.6	15.6	15.6	15.1	13.8	11.9	11.0	9.8	8.9	8.7	8.7	11.4
5	8.2	7.9	7.3	7.0	7.1	6.9	6.8	7.8	9.0	9.9	11.6	12.1	11.5	12.5	12.1	10.2	9.6	7.0	5.9	6.0	6.1	5.9	5.8	6.0	8.3
6	5.5	4.6	4.8	4.8	4.9	5.0	6.3	6.8	7.6	8.6	9.3	10.0	10.0	10.2	11.8	13.4	13.6	13.5	12.9	11.6	9.9	8.7	8.5	8.8	8.8
7	8.8	7.4	7.3	6.5	5.9	5.5	7.1	9.6	11.6	12.8	13.7	14.9	16.0	16.6	17.2	17.7	17.7	17.4	16.2	14.5	13.6	12.9	11.4	11.2	12.2
8	10.9	9.8	9.5	9.0	8.3	8.6	10.1	12.1	13.7	15.2	17.0	18.7	20.1	20.9	21.5	21.5	21.7	21.0	19.6	18.7	16.9	15.8	14.7	14.3	15.4
9	13.6	11.9	11.8	11.7	11.9	12.2	12.8	15.2	16.8	18.7	19.9	21.1	22.5	23.5	23.9	24.4	24.4	23.4	21.9	20.6	18.3	16.8	15.9	15.7	17.9
10	15.0	14.1	13.7	12.7	11.9	11.4	11.6	12.2	13.4	15.0	16.4	17.9	18.2	18.2	18.5	18.2	17.6	17.0	16.2	14.8	13.3	12.7	12.3	11.4	14.7
11	10.8	10.6	10.1	9.6	9.3	9.5	9.9	10.6	10.6	10.9	10.8	10.6	11.0	11.2	11.9	11.7	11.8	11.8	11.3	10.8	10.4	10.2	10.1	10.2	10.7
12	10.2	10.2	10.1	9.8	9.7	9.6	9.7	9.6	9.8	10.1	10.4	10.9	11.0	11.4	11.6	11.8	11.9	11.7	11.3	10.9	10.3	10.0	9.8	9.9	10.5
13	10.0	9.7	9.5	9.4	9.4	9.2	9.3	9.5	9.8	10.1	10.3	10.3	10.4	10.3	10.7	10.9	10.6	10.2	10.1	9.9	9.6	9.4	9.2	9.1	9.9
14	8.9	8.7	8.5	8.4	8.4	8.6	8.9	9.5	11.1	12.6	12.7	12.9	13.6	13.8	14.9	14.9	15.6	15.8	15.2	13.6	12.5	11.2	10.7	10.2	11.7
15	9.4	9.1	9.0	9.0	9.3	9.3	9.4	9.8	10.5	11.8	12.6	13.9	15.3	15.6	16.6	15.5	15.3	15.1	14.8	13.5	12.5	11.8	11.4	11.2	12.2
16	10.9	10.5	9.9	9.7	9.5	9.2	9.3	9.5	9.8	10.5	10.5	11.4	11.8	12.3	12.6	13.2	13.5	13.4	13.1	12.8	12.5	11.9	11.5	11.4	11.3
17	11.3	11.1	10.7	10.6	10.5	10.4	10.8	11.3	12.1	12.9	13.4	13.6	13.7	14.6	15.9	16.2	17.0	16.5	15.6	15.0	14.4	13.8	12.9	12.5	13.2
18	11.6	10.8	10.6	10.5	10.2	10.6	12.9	14.5	15.6	17.1	18.4	19.7	20.9	22.4	23.0	23.0	22.3	21.6	20.9	19.2	17.8	17.0	16.0	15.1	16.7
19	14.2	13.3	12.5	12.0	11.9	11.8	12.0	12.3	13.1	13.8	14.9	16.5	17.6	18.4	19.2	19.9	21.0	20.6	20.1	18.3	17.0	15.8	14.1	13.1	15.6
20	12.1	11.6	11.2	11.0	11.0	11.0	10.9	11.3	11.7	12.5	13.9	15.3	17.0	18.4	19.8	21.3	21.9	21.7	20.5	19.0	18.0	17.0	16.5	15.6	15.4
21	14.8	14.4	14.2	13.6	13.3	14.0	15.0	15.9	17.8	19.5	20.4	21.6	22.8	23.3	23.6	22.9	22.3	21.7	20.6	19.8	18.9	18.2	16.9	15.5	18.4
22	14.2	13.2	12.3	11.7	11.5	11.5	11.6	11.8	12.1	12.6	13.4	14.2	14.4	14.8	14.6	14.5	14.1	13.7	13.6	13.0	12.4	12.1	11.9	11.4	12.9
23	11.0	10.8	10.9	11.0	10.9	10.8	10.8	11.0	11.5	11.8	12.4	13.1	13.6	14.4	14.3	14.7	14.6	14.6	14.2	13.9	13.7	13.6	13.0	12.0	12.6
24	11.4	11.1	11.0	10.7	10.6	10.5	10.5	10.8	11.1	11.7	12.4	13.2	14.4	15.0	15.2	15.6	15.7	15.2	14.3	13.5	13.3	13.1	12.6	11.9	12.7
25	11.5	11.1	10.7	10.3	10.0	10.1	10.3	10.7	11.4	11.8	12.2	12.5	13.1	13.5	13.7	13.9	13.8	13.8	13.4	13.3	12.9	12.6	12.3	12.0	12.1
26	11.8	11.5	11.4	11.2	11.1	11.1	11.3	11.7	12.3	13.8	14.6	16.1	16.9	17.5	17.4	16.8	16.5	16.4	16.5	15.6	14.8	14.0	14.0	13.7	14.1
27	13.1	12.2	12.4	11.9	11.8	12.3	13.0	13.9	15.8	17.4	18.8	19.8	20.5	21.3	22.1	22.3	22.0	21.7	21.1	20.0	18.7	17.4	16.6	14.9	17.1
28	14.7	14.7	14.3	13.2	13.2	13.6	14.4	16.1	18.1	19.5	21.0	22.4	23.5	24.4	25.1	25.5	25.6	24.9	24.0	22.7	20.5	19.2	18.4	17.4	19.4
29	16.3	16.2	16.2	15.7	14.6	14.1	15.2	17.4	19.0	20.8	21.7	22.2	23.5	24.5	24.8	25.0	24.7	23.8	23.0	21.5	19.1	17.5	15.7	14.7	19.5
30	12.9	12.1	11.7	10.7	9.9	9.6	10.5	11.4	12.9	14.8	16.4	17.4	18.8	20.0	20.7	21.1	21.4	21.2	20.7	19.5	17.3	16.5	15.5	14.7	15.7
31	13.6	13.0	12.8	12.3	12.0	11.5	12.7	13.2	15.4	16.9	17.9	19.7	20.8	22.6	23.2	24.0	23.2	22.1	21.1	19.6	18.5	16.9	16.1	15.7	17.3

MONTHLY AVERAGE = 13.70

BAROMETRIC PRESSURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN INCHES HG

DAY	HOUR ENDING												NOTE: ALL TIMES ARE PST!												AVG
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2
2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
3	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
5	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
6	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.2
7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
8	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2
9	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
10	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
11	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.1
12	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
13	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.0
14	29.1	29.1	29.1	29.1	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
15	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.0
16	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1
17	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
18	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2
19	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
20	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1
21	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
22	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1
23	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
24	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
25	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.2	29.2	29.2	29.2	29.2	29.2
26	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
27	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
28	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.2	29.2	29.1	29.1	29.2
29	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1
30	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
31	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.9	29.0	29.0	28.9	28.9	28.9	29.0	29.0
MONTHLY AVERAGE =									29.15																

PRECIPITATION FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN INCHES

DAY	HOUR ENDING																								TOT
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.17	0.08	0.03	0.06	0.00	0.00	0.00	0.43
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.01	0.11
12	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.06	0.02	0.00	0.19
13	0.00	0.07	0.01	0.01	0.01	0.03	0.01	0.00	0.00	0.00	0.01	0.01	0.03	0.01	0.01	0.02	0.04	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.31
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MONTHLY TOTAL = 1.09

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF MAY , 2015

IN MPH/DIR

DAY	HOUR ENDING										NOTE: ALL TIMES ARE PST!													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	7NE	4NE	4NE	5N	8NE	3E	3S	3SW	2W	3NW	6W	7W	7NW	6W	7W	7NW	9N	10N	10N	8NE	6N	6N	5N	7N
2	6NE	9NE	6NE	7N	4NE	7NE	8NE	12NE	9N	9N	8NW	9N	7NW	9N	8N	8N	9N	11NW	11NW	12N	8N	7N	11N	9N
3	2N	3NE	3NE	1W	2E	2NE	1W	1W	3N	4NE	4N	6N	5NW	7NW	8NW	9W	8NW	7W	6NW	5N	3NE	5NE	5NE	2E
4	3E	2E	6SE	7S	7S	5S	6S	6S	10S	11SW	11SW	14SW	16SW	15SW	14SW	15SW	14SW	13W	13SW	10SW	12SW	9S	8S	6S
5	6S	7S	6SE	6SE	9S	10S	11S	10S	14S	15SW	15SW	16SW	15SW	13S	13S	7SE	9NE	10NE	6NE	5NE	4E	4SE	3E	3E
6	3NE	4NE	3NE	2NE	3NE	1NE	1W	2N	2NE	5NE	5N	6N	7NW	5NE	4NE	9NW	9NW	9NW	8NW	6N	4NE	5NE	4NE	2E
7	2E	2N	1SE	3S	1E	3SW	2SW	2W	6N	7N	6N	8N	7N	7NW	9NW	6NW	6N	6NW	7N	7N	3N	4NE	4NE	5NE
8	2NE	2SE	2E	1NW	1E	1NW	1SE	1W	2NW	4NW	5NE	8NW	8NW	7N	8N	8N	7N	7NW	7NW	5NW	3N	3NE	3S	2E
9	3SE	3S	4S	3SE	1SE	2SE	2S	1SW	2NW	5W	5W	5W	4W	6W	6W	5NW	5W	4NW	5NW	3N	5N	7NE	9NE	4E
10	3S	2SE	4SE	5S	4S	4S	4S	4S	4SW	3SW	3SW	5W	8W	8W	7SW	7W	6W	7W	7W	9W	7SW	6S	7SW	8S
11	6S	6S	6SW	6S	6S	5SE	6SE	6S	6S	5SW	7SW	5SW	5S	5SW	4SW	7SW	5SW	3SW	4SE	3S	2S	4S	2E	2W
12	2SW	2W	3SW	4W	2SW	3SW	4SW	6S	4S	4S	4SW	5S	6SW	3SW	3SE	4S	5SE	6SE	6SE	6SE	5SE	5SE	4SE	5SE
13	6S	7SW	6S	4S	6S	6S	7S	8S	8S	9S	7S	7S	7SE	7S	7S	5S	4SE	3SE	3SE	4SE	4SE	1SE	1S	
14	1W	1N	2NE	1N	1N	2N	2NE	2NE	3N	5N	5NW	6W	7N	8NE	5N	6NE	6N	5N	5NW	6NW	4NE	5NE	5NE	5NE
15	5NE	4NE	3NE	3NE	3S	3SW	3S	4SE	3SW	3W	5SW	4SW	5SW	6SW	3SW	6SE	5E	3SE	9SW	10SW	7SW	6W	5SW	7SW
16	5SW	5SW	5SW	6S	7S	6S	5S	5SE	5S	4SE	5S	4SE	3SE	3S	2S	2S	3SW	3S	3SE	3S	3S	4S	3SE	3S
17	3SW	3W	3SW	1SW	2SW	2W	1NW	1NW	2SW	3W	4W	5NW	4NW	2NE	2NE	2N	2W	3NE	3E	2E	2NE	2N	4NE	2NE
18	4NE	6NE	6NE	5NE	4NE	3NE	1N	2W	3W	5W	6W	7W	9W	8NW	8NW	11NW	10NW	8NW	8NW	3S	2NE	2N	8NE	6NE
19	3E	5S	4S	3SW	3SW	3SW	2SW	3SW	3W	4SW	4SW	4W	4W	6W	5W	5W	4W	7NW	5NW	7W	5W	6W	6SW	5SW
20	5SW	5SW	4SW	2S	2NW	4W	5W	4W	3W	4W	5W	7W	6W	6W	6W	6NW	7NW	6NW	6W	4W	2N	2S	2NE	4NE
21	3NE	4E	2SE	3SW	1N	1NE	2SW	3SW	3W	5W	9W	8W	8W	9W	7W	5NW	4N	3NE	5SE	4S	3SE	4SW	4SW	6SW
22	6SW	5S	6SW	3S	5S	5S	6S	6S	6SW	6S	5SE	6S	5SW	6SW	4W	6W	5W	5W	6SW	6SW	4W	3W	4SW	8S
23	7SE	5SE	6SE	5S	6S	5S	4S	4SE	5SE	5SE	4S	5S	4SW	4W	6W	4SW	5SW	4SW	4SW	3W	4SW	3SW	5SW	4W
24	5W	4W	3SW	2S	3S	3S	4S	3S	3S	3S	3S	3S	4S	3W	3NW	3W	3SW	5W	7W	5W	3SW	3SW	5W	6W
25	5SW	4SW	4S	5S	5S	4S	4S	5S	4S	7S	6SW	5SW	5S	4SW	4W	4SW	3SW	2SW	2NE	2NW	4NW	5W	3W	3W
26	3W	4W	4SW	3W	2W	2W	1SW	2SW	2W	2S	4W	6W	6W	6W	4NW	4SE	4SE	3SE	3SE	3SE	2E	2NE	2E	2E
27	2S	3S	2SE	4S	4S	3SE	4SW	2SW	1NW	3NW	3NW	5NW	7NW	7NW	8NW	7NW	9NW	8NW	6NW	5NW	3NE	4NE	2E	4SE
28	4E	3SE	4S	5S	4S	3SW	2S	2SW	3W	6W	5W	6W	6NW	8W	8NW	7NW	6NW	9NW	6NW	4N	8NE	8NE	6NE	3NE
29	5E	3E	1E	3S	2S	3S	3S	2S	3SW	4SW	6W	6W	5SW	6W	8W	9W	9W	9W	8W	4SW	5W	5SW	5W	4SW
30	6W	3SW	3S	4SW	2SW	3SW	4SW	4SW	4SW	4SW	5SW	5SW	5W	6SW	5W	4W	6W	5SW	4SW	3NW	3NE	3S	4S	4S
31	4SW	2S	2S	3N	2NW	3N	2NW	3NE	3NW	6W	3W	5W	5W	6NW	8N	9N	9N	8NW	4N	8N	3N	5NE	4E	2S

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF JUNE , 2015

IN MILES PER HOUR

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.
1	2.6	3.6	4.8	5.5	5.9	10.4	5.0	7.4	4.9	4.5	4.3	4.2	5.7	5.8	6.3	5.5	5.0	1.6	1.4	5.2	2.8	3.7	3.9	4.9	4.8
2	6.1	8.8	9.7	6.6	6.1	7.7	7.8	7.6	7.7	10.9	9.9	10.8	11.0	7.6	6.5	5.9	10.6	7.0	5.0	5.5	7.0	6.2	6.3	7.5	7.7
3	7.1	5.3	3.8	5.5	3.6	4.5	4.2	3.9	4.0	4.2	2.3	3.0	4.5	2.7	2.3	3.1	3.6	4.0	4.1	3.3	6.9	8.9	9.1	9.3	4.7
4	9.1	7.9	7.4	6.8	7.1	9.1	10.6	10.5	8.4	7.1	7.8	6.7	7.7	6.9	6.5	5.7	6.8	5.1	5.0	4.4	5.3	4.4	7.7	9.0	7.2
5	8.0	8.6	5.7	4.2	2.4	1.9	1.1	2.0	3.4	6.2	8.9	8.7	12.2	11.9	11.2	12.1	10.5	8.6	7.2	7.4	8.6	11.4	10.2	10.2	7.6
6	4.7	4.6	2.7	1.7	2.5	1.8	2.0	2.2	3.0	4.0	7.2	8.4	10.3	7.9	10.1	9.3	9.0	7.8	6.4	6.1	3.0	2.0	3.3	4.0	5.2
7	3.8	3.5	3.9	0.7	2.3	1.9	1.9	1.8	2.7	3.2	5.0	7.3	7.4	7.1	7.2	8.5	9.5	8.7	7.6	6.3	5.1	11.1	16.2	10.6	6.0
8	7.0	8.5	7.3	7.4	3.1	4.2	2.9	1.8	2.2	4.5	6.3	6.8	7.8	7.6	9.8	9.7	11.0	10.5	9.1	9.0	6.6	2.3	4.7	7.4	6.6
9	6.2	8.1	6.1	2.7	2.3	3.4	2.3	2.3	3.4	4.1	7.0	6.7	8.1	7.6	7.0	8.2	7.7	9.0	8.3	6.9	6.9	5.0	10.3	6.2	6.1
10	4.0	3.2	4.6	3.5	2.6	3.4	4.3	3.6	3.6	4.2	4.1	4.8	6.4	7.2	8.7	7.5	6.8	5.7	5.6	6.5	5.9	6.1	4.4	3.2	5.0
11	1.8	3.7	3.1	2.4	2.9	4.2	5.5	5.9	4.2	3.4	4.7	5.6	5.6	8.1	10.6	8.8	7.4	6.6	10.0	12.5	12.9	14.6	14.1	11.8	7.1
12	10.3	8.6	5.9	3.5	5.2	5.9	6.7	6.8	7.8	6.8	5.4	5.6	5.2	3.9	2.9	4.5	7.9	6.9	7.3	6.0	3.7	2.8	1.5	1.8	5.5
13	6.8	5.1	4.8	5.0	4.7	4.2	4.1	3.0	3.2	5.3	7.0	8.2	9.0	8.6	7.8	9.0	8.3	9.1	7.9	7.1	7.8	7.2	5.3	4.4	6.4
14	4.9	4.0	2.9	2.3	1.2	1.2	2.7	2.6	3.4	5.7	9.3	8.1	8.4	8.6	9.6	10.8	9.8	10.6	8.7	5.8	4.6	9.2	11.6	10.6	6.5
15	10.8	8.6	6.3	4.1	5.7	4.2	1.8	2.0	3.3	3.5	6.3	7.6	7.8	8.9	10.1	8.9	5.9	5.1	7.7	6.8	10.7	9.0	4.5	2.7	6.3
16	5.2	5.1	6.3	4.7	5.8	7.5	6.6	6.1	5.8	5.9	6.5	6.8	9.2	9.0	8.6	5.7	6.9	5.7	4.0	3.3	4.2	6.6	8.6	7.8	6.3
17	4.3	2.6	1.5	2.6	3.5	3.9	3.9	2.8	2.9	3.6	4.1	6.4	7.0	6.6	6.0	8.2	9.0	9.1	7.8	7.1	10.5	11.2	11.6	11.4	6.1
18	15.3	9.0	6.2	8.1	7.1	3.6	4.1	2.3	3.6	5.4	5.6	5.7	5.5	7.1	8.1	6.5	5.5	6.2	10.6	10.5	6.6	5.1	3.3	5.2	6.5
19	3.1	3.4	1.2	2.5	3.0	1.8	2.1	5.3	4.5	6.1	5.0	4.9	3.3	4.6	5.2	4.2	5.2	7.4	7.8	7.2	8.2	8.5	8.9	7.7	5.0
20	10.4	2.4	4.3	2.8	3.5	3.1	6.6	7.5	5.0	4.0	5.5	8.2	7.0	7.3	8.1	8.9	8.1	11.2	9.7	4.3	6.5	5.3	7.5	7.0	6.4
21	4.4	3.8	8.6	10.0	9.1	8.5	6.6	3.6	4.3	5.8	5.2	4.8	5.1	7.0	6.1	5.0	4.7	7.0	3.3	1.0	2.7	2.5	4.1	3.8	5.3
22	5.2	4.1	4.0	6.3	5.1	6.0	5.8	4.9	4.5	4.6	6.1	6.0	6.5	7.6	6.8	4.2	5.7	5.5	5.3	5.8	2.9	3.6	6.2	3.8	5.3
23	2.0	3.4	1.9	1.2	0.5	2.4	2.7	3.1	3.0	3.3	3.6	5.0	5.4	7.8	6.6	6.2	5.1	5.3	6.4	6.4	7.9	10.0	9.9	8.9	4.9
24	7.7	5.4	4.1	3.7	3.2	3.3	3.0	4.1	3.8	3.4	5.7	6.7	8.9	5.2	3.8	5.1	5.4	6.1	7.8	5.6	6.7	9.5	8.9	6.0	5.5
25	3.9	4.6	4.2	3.4	0.1	2.5	1.9	2.8	3.5	5.7	5.8	6.7	6.4	5.3	6.1	7.6	8.5	9.3	8.2	5.0	7.2	9.4	9.1	6.4	5.6
26	7.2	8.7	8.1	8.4	7.5	7.7	5.5	2.1	3.2	6.5	8.2	9.2	7.6	8.7	8.7	9.3	8.9	9.2	7.7	4.9	7.8	12.1	15.3	10.8	8.0
27	13.3	10.5	6.0	5.9	6.9	5.3	2.2	1.8	3.9	4.5	7.6	9.9	12.5	10.0	9.8	8.8	8.1	5.9	5.2	4.2	8.2	9.3	8.9	5.6	7.3
28	3.4	3.0	3.3	4.0	4.6	2.1	3.2	2.5	5.0	10.4	6.1	2.8	6.9	4.9	6.7	7.7	6.8	6.1	4.8	4.4	3.3	1.3	3.3	2.2	4.5
29	1.6	2.9	7.1	8.9	4.3	3.3	4.5	4.3	4.8	4.1	4.4	6.8	8.1	7.9	8.1	9.1	7.5	5.8	7.4	5.6	4.9	3.4	5.3	4.4	5.6
30	3.5	3.2	3.1	3.9	4.1	2.9	2.3	2.7	3.6	3.8	4.7	7.3	7.1	8.7	7.0	8.3	8.3	7.3	8.3	8.8	10.6	8.7	5.2	10.2	6.0

MONTHLY AVERAGE = 6.04

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF JUNE , 2015

IN DEGREES

(MEASURED CLOCKWISE FROM NORTH)

HOUR ENDING **NOTE: ALL TIMES ARE PST!**

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	AVG.
1	103.	165.	197.	182.	171.	192.	194.	149.	125.	180.	139.	164.	187.	169.	168.	150.	132.	228.	79.	264.	162.	177.	186.	179.	168.
2	178.	187.	184.	161.	166.	178.	187.	191.	194.	204.	215.	221.	216.	199.	208.	198.	228.	202.	166.	189.	208.	204.	206.	184.	195.
3	183.	173.	168.	178.	178.	181.	182.	187.	214.	220.	293.	122.	108.	351.	42.	57.	46.	44.	44.	34.	25.	30.	29.	32.	130.
4	34.	28.	36.	38.	20.	15.	11.	19.	21.	25.	36.	6.	26.	15.	350.	329.	326.	337.	30.	323.	347.	38.	49.	35.	104.
5	27.	35.	25.	18.	45.	203.	236.	15.	2.	17.	9.	1.	323.	321.	324.	326.	344.	339.	337.	328.	11.	27.	29.	31.	141.
6	29.	69.	100.	332.	204.	307.	311.	272.	290.	290.	270.	334.	335.	356.	324.	339.	316.	334.	335.	316.	224.	353.	16.	63.	255.
7	44.	28.	51.	329.	237.	210.	176.	325.	357.	321.	286.	272.	273.	289.	328.	352.	329.	349.	334.	340.	4.	29.	15.	13.	220.
8	14.	18.	24.	24.	20.	41.	39.	47.	7.	295.	305.	291.	341.	8.	319.	317.	320.	346.	353.	8.	30.	74.	344.	19.	150.
9	17.	28.	4.	36.	72.	29.	16.	86.	209.	225.	264.	264.	294.	285.	271.	278.	270.	307.	311.	310.	15.	44.	22.	57.	155.
10	155.	157.	192.	226.	200.	214.	190.	203.	242.	221.	249.	264.	272.	270.	280.	268.	268.	271.	254.	260.	267.	254.	216.	197.	233.
11	255.	258.	294.	222.	186.	184.	150.	157.	194.	212.	252.	267.	276.	266.	259.	272.	272.	267.	354.	24.	25.	28.	32.	39.	198.
12	41.	38.	43.	103.	207.	179.	153.	159.	202.	188.	174.	167.	177.	186.	36.	308.	262.	279.	304.	312.	359.	25.	43.	53.	167.
13	180.	121.	144.	177.	164.	170.	179.	178.	255.	288.	279.	292.	293.	293.	283.	291.	291.	304.	314.	350.	27.	35.	34.	21.	207.
14	44.	51.	14.	16.	87.	190.	177.	299.	20.	7.	22.	352.	326.	353.	335.	318.	322.	332.	340.	355.	20.	23.	23.	23.	169.
15	32.	38.	51.	42.	40.	62.	182.	1.	335.	357.	279.	265.	259.	284.	296.	304.	323.	346.	300.	319.	26.	41.	39.	204.	184.
16	211.	213.	196.	173.	190.	174.	160.	178.	217.	238.	227.	235.	278.	252.	233.	274.	276.	273.	276.	326.	26.	32.	34.	50.	198.
17	68.	49.	76.	197.	200.	193.	182.	144.	151.	245.	267.	262.	275.	298.	288.	286.	308.	315.	338.	347.	27.	30.	31.	28.	192.
18	25.	30.	14.	44.	35.	43.	3.	13.	296.	29.	13.	317.	310.	272.	258.	273.	234.	276.	290.	7.	12.	26.	22.	12.	119.
19	320.	281.	31.	139.	161.	119.	108.	143.	142.	185.	210.	222.	253.	354.	311.	290.	311.	16.	8.	355.	12.	20.	41.	57.	170.
20	58.	28.	49.	15.	46.	26.	21.	28.	345.	324.	320.	315.	326.	311.	343.	342.	350.	330.	335.	318.	358.	6.	22.	50.	194.
21	59.	24.	36.	38.	24.	24.	26.	44.	35.	23.	316.	13.	16.	278.	252.	279.	277.	230.	225.	138.	190.	228.	159.	157.	129.
22	172.	147.	157.	184.	173.	156.	194.	168.	189.	235.	232.	267.	245.	260.	250.	258.	278.	280.	316.	307.	305.	260.	195.	218.	227.
23	260.	236.	259.	257.	96.	167.	192.	203.	208.	236.	255.	257.	264.	266.	270.	298.	306.	297.	296.	334.	29.	27.	28.	35.	211.
24	39.	51.	41.	33.	64.	86.	120.	135.	211.	248.	245.	265.	241.	264.	284.	273.	301.	297.	307.	323.	351.	25.	35.	39.	178.
25	33.	26.	27.	22.	87.	142.	136.	339.	269.	267.	255.	275.	285.	314.	311.	303.	310.	311.	312.	322.	29.	24.	30.	32.	186.
26	41.	27.	21.	34.	30.	31.	41.	46.	358.	359.	342.	337.	1.	359.	356.	356.	349.	348.	344.	358.	37.	31.	29.	22.	177.
27	25.	28.	25.	33.	35.	38.	62.	18.	41.	343.	35.	1.	320.	330.	3.	28.	0.	319.	347.	28.	26.	359.	19.	48.	105.
28	34.	163.	16.	36.	28.	141.	194.	24.	348.	237.	100.	53.	308.	327.	317.	290.	284.	269.	231.	216.	35.	59.	214.	270.	175.
29	144.	237.	174.	10.	270.	169.	188.	192.	193.	228.	243.	264.	270.	277.	276.	273.	271.	276.	251.	255.	254.	244.	261.	243.	228.
30	235.	239.	271.	212.	194.	218.	216.	172.	259.	292.	262.	263.	287.	286.	316.	321.	318.	331.	326.	3.	28.	30.	10.	17.	213.

MONTHLY AVERAGE = 179.22

SIGMA THETA FOR CEDAR HILLS LANDFILL
 METEOROLOGICAL MONITORING SYSTEM FOR
 THE MONTH OF JUNE , 2015

IN DEGREES

DAY											HOUR		ENDING	NOTE: ALL TIMES ARE PST!																				AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
1	28.7	10.5	14.4	9.1	17.2	9.9	40.2	8.2	25.2	20.3	17.4	30.6	10.7	16.7	15.5	11.2	12.1	25.5	33.5	10.8	20.9	11.1	16.4	11.4	17.8									
2	13.7	9.9	7.6	8.4	9.5	10.7	8.9	11.7	11.1	12.0	13.8	11.9	17.2	16.5	19.3	15.3	11.1	12.3	9.3	9.4	9.7	9.0	8.7	10.4	11.6									
3	9.3	9.7	11.2	8.6	16.4	11.2	16.1	22.1	21.1	19.7	43.0	38.5	21.5	21.2	15.7	13.4	9.0	7.8	8.6	8.8	12.2	10.6	10.7	11.1	15.7									
4	12.5	11.0	13.0	16.8	17.4	9.5	10.8	10.7	15.3	16.8	14.4	28.6	29.0	20.3	15.5	15.9	15.5	22.0	12.8	13.5	14.1	14.7	8.6	9.2	15.3									
5	10.3	9.7	19.6	27.4	40.5	31.7	29.0	33.2	35.8	22.5	22.6	24.0	12.4	10.7	12.7	9.8	17.9	18.4	11.5	10.5	13.8	7.8	7.7	8.2	18.6									
6	38.7	13.1	19.6	23.9	9.9	11.5	38.6	38.8	28.9	37.6	20.2	28.8	17.9	24.0	16.6	21.8	13.3	15.4	11.8	8.5	54.9	40.1	46.8	30.4	25.5									
7	30.5	26.7	45.5	44.8	17.1	20.5	23.2	63.0	40.0	44.3	35.3	18.1	20.0	22.0	34.7	23.1	12.1	18.2	9.9	7.7	20.2	12.4	6.6	6.1	25.1									
8	9.5	5.8	7.9	6.5	45.1	10.2	16.9	37.9	37.4	27.0	22.0	22.3	23.5	19.2	11.7	15.4	10.1	15.3	13.3	12.1	32.5	78.6	33.5	25.3	22.5									
9	41.5	23.6	48.8	24.0	17.5	9.7	33.3	38.1	31.6	28.6	18.0	23.9	17.4	19.4	20.1	14.1	18.7	10.8	8.6	17.5	17.8	37.9	9.9	13.1	22.7									
10	18.8	17.6	8.7	7.0	8.6	10.1	20.2	33.9	41.9	35.5	48.3	49.5	27.0	20.6	15.4	18.3	21.8	17.8	16.4	6.1	8.4	9.1	6.5	23.4	20.5									
11	20.4	10.4	9.1	20.4	9.2	12.4	15.0	19.1	32.7	42.0	32.8	33.9	35.4	23.0	17.4	17.1	21.0	18.5	18.7	11.9	15.6	12.3	13.1	14.1	19.8									
12	12.5	11.2	13.4	41.8	10.2	11.0	11.3	18.0	13.3	11.2	22.2	21.1	35.2	56.3	40.4	38.1	15.8	15.8	8.1	6.6	7.8	11.8	28.0	31.1	20.5									
13	9.8	7.7	8.7	6.8	6.1	10.5	19.8	30.6	51.2	35.2	29.5	24.5	21.5	20.1	23.7	20.2	17.9	12.1	9.1	9.7	6.8	5.0	13.6	12.4	17.2									
14	13.7	17.7	9.9	17.7	32.5	22.9	18.2	52.8	30.6	24.4	24.7	21.9	20.8	26.0	16.3	12.3	13.3	11.8	10.2	13.0	7.6	8.3	11.3	9.4	18.6									
15	9.0	7.6	9.4	11.0	14.5	14.4	34.7	40.1	29.8	40.0	15.0	14.9	18.5	15.9	13.6	13.0	18.1	19.0	11.2	14.3	10.2	11.3	11.8	25.0	17.6									
16	10.2	10.7	5.6	8.4	24.5	10.6	18.3	24.7	24.1	32.4	30.3	34.6	16.3	21.2	21.6	36.1	16.1	16.5	19.5	9.2	12.3	8.5	8.7	12.9	18.1									
17	13.7	28.9	31.7	28.7	6.8	8.7	14.6	32.1	50.1	47.7	41.5	31.4	25.7	32.8	32.1	21.5	14.3	11.8	15.9	14.7	11.6	9.3	8.0	8.0	22.6									
18	9.7	10.4	28.7	10.6	10.9	14.2	30.3	43.3	38.9	24.3	27.7	22.0	38.0	22.4	24.6	21.6	22.2	11.9	21.5	18.0	20.5	19.4	21.1	15.6	22.0									
19	28.0	20.5	18.4	14.3	21.5	19.9	19.8	12.3	16.8	19.9	23.6	42.6	51.1	35.8	41.8	32.5	20.0	21.0	11.1	18.2	14.1	15.3	13.6	14.2	22.8									
20	14.0	50.6	20.8	50.3	17.7	29.6	12.2	14.4	30.2	41.3	33.9	18.5	24.9	31.4	26.9	21.3	24.2	10.8	16.2	26.0	30.4	36.3	13.7	12.5	25.3									
21	18.7	42.7	13.7	7.6	6.9	9.9	11.7	15.2	18.8	29.4	31.5	28.5	31.7	31.5	27.5	30.4	38.1	12.2	16.6	15.6	30.8	25.2	17.2	14.2	21.9									
22	12.2	12.4	11.4	8.0	11.2	9.5	12.9	28.5	43.0	35.4	29.9	38.7	41.6	32.4	34.8	35.4	24.2	32.4	14.8	5.6	26.3	14.6	10.8	12.8	22.4									
23	9.1	7.7	11.3	21.9	22.9	28.1	27.5	30.7	41.2	46.6	43.2	42.0	29.0	28.4	27.6	29.3	29.3	19.2	7.4	12.3	14.2	12.4	11.0	8.8	23.4									
24	8.0	9.9	9.3	8.4	9.6	18.0	28.4	25.0	36.4	50.2	24.2	26.4	9.8	32.7	35.8	21.4	24.0	18.4	9.0	5.8	11.2	10.1	8.9	8.2	18.7									
25	7.6	8.9	7.3	11.4	5.9	31.8	45.2	33.5	32.3	22.6	28.7	21.6	34.6	36.7	37.8	23.5	18.2	10.1	9.1	33.5	27.6	14.3	12.8	20.6	22.3									
26	20.4	11.3	8.1	8.4	7.9	10.0	11.3	43.2	33.3	20.2	21.9	20.6	28.2	21.8	20.4	20.0	18.3	16.4	15.4	19.3	13.0	10.0	9.4	8.7	17.4									
27	7.8	9.3	9.5	9.2	9.8	11.1	54.0	47.1	33.9	63.4	15.8	21.5	9.6	15.4	18.5	15.3	17.5	19.0	17.0	12.6	12.2	10.8	9.7	13.0	19.3									
28	47.5	18.9	16.1	10.4	9.4	22.1	11.8	48.4	42.0	27.1	31.8	50.8	21.8	36.0	17.1	14.8	23.0	20.4	13.4	23.6	33.9	24.4	17.6	32.8	25.6									
29	49.4	34.4	15.3	26.4	45.8	32.2	18.6	20.4	23.0	38.8	41.9	24.2	19.3	17.4	19.4	16.6	16.5	18.1	10.1	8.4	8.0	10.8	10.0	8.9	22.2									
30	7.4	8.0	9.5	8.9	6.4	16.8	33.5	31.0	38.4	41.1	28.7	22.0	23.8	25.1	19.9	17.5	17.3	20.5	11.2	18.0	15.6	25.0	58.0	28.9	22.2									

MONTHLY AVERAGE = 20.50

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF JUNE , 2015

IN DEGREES C

DAY										HOUR ENDING			NOTE: ALL TIMES ARE PST!																			AVG
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								
1	15.9	15.4	13.7	13.1	12.6	12.1	11.6	11.1	11.6	11.8	11.9	12.1	12.9	13.3	13.6	13.3	13.4	13.4	13.2	12.4	12.3	12.3	12.3	11.9	12.8							
2	11.8	11.7	11.4	11.1	11.1	11.3	11.6	11.9	12.5	13.5	14.2	13.9	13.6	13.9	13.7	13.7	14.2	13.6	12.8	12.7	12.6	12.4	12.1	11.7	12.6							
3	11.4	11.1	11.0	11.1	11.1	11.2	11.6	12.1	12.8	13.3	13.9	14.1	15.1	15.3	15.4	15.4	15.1	15.0	14.7	14.4	13.8	13.1	12.9	12.4	13.2							
4	11.8	11.3	11.2	11.7	11.5	12.0	12.9	14.3	15.4	15.6	16.5	17.3	18.0	17.8	18.3	19.1	19.1	19.4	19.0	18.0	16.2	15.1	14.6	13.9	15.4							
5	12.8	12.6	13.1	12.7	12.6	13.1	14.3	16.4	18.0	19.5	21.0	22.2	23.2	24.0	24.5	24.5	24.4	24.1	23.2	21.2	19.6	18.4	16.9	16.3	18.7							
6	15.2	13.7	14.3	14.3	13.3	14.9	16.2	18.1	19.6	21.5	23.0	25.0	25.9	27.0	27.6	27.7	27.4	27.0	26.0	24.0	22.6	21.7	21.0	19.7	21.1							
7	19.0	18.6	17.4	17.2	16.0	16.5	18.1	20.3	22.0	23.5	24.5	25.9	27.1	28.7	29.3	29.3	29.2	28.5	27.3	25.6	23.7	22.0	21.0	20.5	23.0							
8	20.0	19.1	19.4	16.1	17.1	15.9	17.7	20.3	21.9	22.8	24.4	26.0	27.7	29.1	30.0	29.7	28.9	27.9	26.7	24.9	23.0	22.2	21.8	20.6	23.0							
9	20.4	19.6	17.8	16.4	15.7	15.5	16.7	19.0	19.9	21.6	23.0	23.9	25.9	26.8	27.2	27.5	27.3	26.5	25.0	23.0	21.5	19.4	18.1	17.0	21.5							
10	15.3	13.6	12.5	12.0	11.2	11.2	12.2	13.7	15.4	17.1	19.1	20.7	21.9	23.1	23.6	23.9	24.1	23.9	23.4	21.4	19.2	17.2	16.1	15.0	17.8							
11	14.1	13.0	11.7	11.2	10.8	10.8	12.1	13.7	14.8	16.5	18.1	19.7	20.7	21.6	22.1	22.7	23.0	22.8	21.4	18.7	16.6	14.9	13.7	12.8	16.6							
12	12.5	12.4	12.1	11.9	11.7	11.2	11.1	11.8	11.6	11.7	12.6	13.2	14.6	16.1	17.1	18.0	18.3	18.0	17.4	15.9	14.6	14.2	13.5	12.9	13.9							
13	10.0	9.4	10.2	9.6	9.0	9.3	10.4	12.3	13.9	15.9	17.2	18.6	19.8	20.4	21.1	21.6	21.5	21.3	20.5	19.0	17.3	14.9	14.6	14.1	15.5							
14	13.7	12.4	11.8	11.4	10.9	12.3	12.7	14.9	17.1	19.5	21.0	22.8	24.3	25.4	25.7	26.2	26.2	25.5	24.9	23.1	21.0	19.0	18.3	17.6	19.1							
15	16.3	15.4	14.4	14.0	13.1	14.9	17.0	18.8	20.5	22.8	23.6	24.6	26.2	27.4	28.5	28.1	28.2	28.0	26.1	23.7	21.4	20.0	18.7	17.4	21.2							
16	15.6	14.2	12.9	12.1	11.2	10.9	12.0	13.2	14.1	15.6	17.0	17.9	18.5	19.7	19.9	20.6	20.9	20.5	19.9	18.4	17.1	15.6	14.3	13.1	16.0							
17	12.2	11.7	11.4	11.0	10.5	10.6	10.9	11.9	13.7	15.5	17.7	19.4	20.9	21.8	22.8	23.6	23.5	23.1	21.9	19.9	18.2	17.0	16.2	15.5	16.7							
18	15.3	14.4	14.2	14.4	14.3	14.2	14.8	16.7	17.8	18.9	20.1	21.1	22.0	22.4	22.3	21.9	22.0	21.4	19.4	16.4	15.3	14.9	14.3	14.5	17.6							
19	14.0	13.1	12.5	12.4	12.5	12.6	12.6	12.6	12.9	14.3	16.2	18.0	18.9	20.0	20.7	20.1	20.8	19.5	18.6	17.6	16.0	14.8	13.5	13.0	15.7							
20	13.2	12.9	12.6	12.2	11.8	12.4	13.3	14.2	15.5	17.5	18.9	20.1	21.1	21.8	22.6	22.8	22.8	21.8	20.8	19.5	18.0	16.6	15.5	14.4	17.2							
21	13.5	13.6	12.9	12.0	11.4	12.3	13.2	14.6	16.0	17.3	18.8	20.1	21.8	22.5	23.5	23.8	24.1	24.3	24.0	22.9	20.9	19.4	17.7	16.7	18.2							
22	15.7	15.0	14.0	12.8	12.0	12.4	13.1	14.8	16.4	17.3	18.5	19.8	20.8	21.9	22.3	22.9	23.1	22.8	22.2	20.6	19.4	17.5	15.8	14.8	17.7							
23	14.2	13.0	12.4	11.9	11.4	11.8	12.8	14.4	16.5	18.2	20.1	21.5	22.6	23.6	24.1	24.7	24.8	24.5	23.0	21.5	19.7	18.8	18.1	17.2	18.4							
24	17.0	16.7	15.9	15.3	15.1	15.9	17.6	19.2	20.5	21.8	22.7	23.1	22.1	22.3	23.3	23.6	24.3	24.3	23.3	22.0	20.5	19.1	17.9	16.6	20.0							
25	15.8	14.9	14.5	14.5	14.7	15.9	17.9	19.9	21.5	22.9	24.6	25.8	26.8	27.9	28.8	29.0	28.9	28.4	27.4	25.2	23.2	21.8	21.2	20.4	22.2							
26	19.6	18.5	17.6	16.6	16.1	16.7	18.1	20.8	22.5	24.0	25.7	27.1	28.6	29.6	30.0	30.3	30.2	29.5	28.2	26.6	24.5	22.9	21.7	20.5	23.6							
27	20.1	19.9	19.0	17.4	16.9	17.5	19.1	21.1	23.1	25.4	27.3	29.1	30.3	30.3	31.1	31.6	31.7	30.4	30.2	28.9	27.1	25.9	24.3	22.9	25.0							
28	22.4	22.1	21.5	20.0	19.3	21.6	22.4	23.7	25.4	22.5	22.6	25.0	26.6	27.6	27.6	26.1	24.9	25.0	24.4	22.9	22.1	22.8	21.9	20.9	23.4							
29	20.6	20.3	19.2	19.4	18.7	18.4	18.8	20.6	22.3	23.7	25.4	27.1	28.1	28.6	29.1	29.1	28.7	28.4	27.4	25.7	23.5	22.7	20.9	19.3	23.6							
30	18.5	17.8	16.7	16.0	15.4	15.7	16.5	18.5	20.1	21.8	23.5	24.9	26.4	27.9	29.1	29.4	29.2	29.1	28.0	26.0	23.4	21.6	21.4	21.0	22.4							

MONTHLY AVERAGE = 18.77

BAROMETRIC PRESSURE FOR CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF JUNE , 2015

IN INCHES HG

DAY										HOUR ENDING			NOTE: ALL TIMES ARE PST!														AVG
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	
3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	
4	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.3	29.3	29.3	29.3	29.3	
5	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	
6	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	
7	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	
8	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
9	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	
10	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.1	
11	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.2	
12	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	
13	29.3	29.3	29.3	29.2	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	
14	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
15	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
16	29.1	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	
17	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.2	
18	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.1	
19	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	
20	29.3	29.3	29.2	29.3	29.2	29.2	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	
21	29.1	29.1	29.1	29.0	29.1	29.1	29.0	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.1	
22	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.2	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.2	
23	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	
24	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.2	29.2	
25	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.3	29.2	29.3	
26	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	
27	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
28	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	
29	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.1	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.2	29.2	29.2	29.2	29.2	29.1	
30	29.2	29.2	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	

MONTHLY AVERAGE = 29.19

IN INCHES

[illegible]

C -20

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLOGICAL MONITORING SYSTEM FOR
THE MONTH OF JUNE , 2015

IN MPH/DIR

	HOUR										ENDING														NOTE: ALL TIMES ARE PST!													
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24														
1	3E	4S	5S	6S	6S	10S	5S	7SE	5SE	4S	4SE	4S	6S	6S	6S	6SE	5SE	2SW	1E	5W	3S	4S	4S	5S														
2	6S	9S	10S	7S	6S	8S	8S	8S	8S	11SW	10SW	11SW	11SW	8S	6SW	6S	11SW	7S	5S	5S	7SW	6SW	6SW	7S														
3	7S	5S	4S	5S	4S	5S	4S	4S	4SW	4SW	2NW	3SE	5E	3N	2NE	3NE	4NE	4NE	4NE	3NE	7NE	9NE	9NE	9NE														
4	9NE	8NE	7NE	7NE	7N	9N	11N	11N	8N	7NE	8NE	7N	8NE	7N	7N	6NW	7NW	5NW	5NE	4NW	5N	4NE	8NE	9NE														
5	8NE	9NE	6NE	4N	2NE	2SW	1SW	2N	3N	6N	9N	9N	12NW	12NW	11NW	12NW	11N	9N	7NW	7NW	9N	11NE	10NE	10NE														
6	5NE	5E	3E	2NW	3SW	2NW	2NW	2W	3W	4W	7W	8NW	10NW	8N	10NW	9N	9NW	8NW	6NW	6NW	3SW	2N	3N	4NE														
7	4NE	3NE	4NE	1NW	2SW	2SW	2S	2NW	3N	3NW	5W	7W	7W	7W	7NW	9N	10NW	9N	8NW	6N	5N	11NE	16N	11N														
8	7N	9N	7NE	7NE	3N	4NE	3NE	2NE	2N	5NW	6NW	7W	8N	8N	10NW	10NW	11NW	11N	9N	9N	7NE	2E	5N	7N														
9	6N	8NE	6N	3NE	2E	3NE	2N	2E	3SW	4SW	7W	7W	8NW	8W	7W	8W	8W	9NW	8NW	7NW	7N	5NE	10N	6NE														
10	4SE	3SE	5S	4SW	3S	3SW	4S	4SW	4SW	4SW	4W	5W	6W	7W	9W	8W	7W	6W	6W	6W	6W	6W	4SW	3S														
11	2W	4W	3NW	2SW	3S	4S	6SE	6SE	4S	3SW	5W	6W	6W	8W	11W	9W	7W	7W	10N	13NE	13NE	15NE	14NE	12NE														
12	10NE	9NE	6NE	4E	5SW	6S	7SE	7S	8S	7S	5S	6S	5S	4S	3NE	5NW	8W	7W	7NW	6NW	4N	3NE	2NE	2NE														
13	7S	5SE	5SE	5S	5S	4S	4S	3S	3W	5W	7W	8W	9NW	9NW	8W	9W	8W	9NW	8NW	7N	8NE	7NE	5NE	4N														
14	5NE	4NE	3N	2N	1E	1S	3S	3NW	3N	6N	9N	8N	8NW	9N	10NW	11NW	10NW	11NW	9N	6N	5N	9NE	12NE	11NE														
15	11NE	9NE	6NE	4NE	6NE	4NE	2S	2N	3NW	4N	6W	8W	8W	9W	10NW	9NW	6NW	5N	8NW	7NW	11NE	9NE	5NE	3SW														
16	5SW	5SW	6S	5S	6S	8S	7S	6S	6SW	6SW	7SW	7SW	9W	9W	9SW	6W	7W	6W	4W	3NW	4NE	7NE	9NE	8NE														
17	4E	3NE	2E	3S	3S	4S	4S	3SE	3SE	4SW	4W	6W	7W	7NW	6W	8W	9NW	9NW	8N	7N	11NE	11NE	12NE	11NE														
18	15NE	9NE	6N	8NE	7NE	4NE	4N	2N	4NW	5NE	6N	6NW	6NW	7W	8W	7W	6SW	6W	11W	10N	7N	5NE	3N	5N														
19	3NW	3W	1NE	3SE	3S	2SE	2E	5SE	4SE	6S	5SW	5SW	3W	5N	5NW	4W	5NW	7N	8N	7N	8N	8N	9NE	8NE														
20	10NE	2NE	4NE	3N	3NE	3NE	7N	7NE	5N	4NW	6NW	8NW	7NW	7NW	8N	9N	8N	11NW	10NW	4NW	7N	5N	7N	7NE														
21	4NE	4NE	9NE	10NE	9NE	9NE	7NE	4NE	4NE	6NE	5NW	5N	5N	7W	6W	5W	5W	7SW	3SW	1SE	3S	2SW	4S	4SE														
22	5S	4SE	4SE	6S	5S	6SE	6S	5S	5S	5SW	6SW	6W	7SW	8W	7W	4W	6W	5W	5NW	6NW	3NW	4W	6S	4SW														
23	2W	3SW	2W	1W	1E	2S	3S	3SW	3SW	3SW	4W	5W	5W	8W	7W	6NW	5NW	5NW	6NW	6NW	8NE	10NE	10NE	9NE														
24	8NE	5NE	4NE	4NE	3NE	3E	3SE	4SE	4SW	3W	6SW	7W	9SW	5W	4W	5W	5NW	6NW	8NW	6NW	7N	10NE	9NE	6NE														
25	4NE	5NE	4NE	3N	0E	3SE	2SE	3N	4W	6W	6W	7W	6W	5NW	6NW	8NW	9NW	9NW	8NW	5NW	7NE	9NE	9NE	6NE														
26	7NE	9NE	8N	8NE	7NE	8NE	5NE	2NE	3N	6N	8N	9NW	8N	9N	9N	9N	9N	9N	8N	5N	8NE	12NE	15NE	11N														
27	13NE	11NE	6NE	6NE	7NE	5NE	2NE	2N	4NE	4N	8NE	10N	13NW	10NW	10N	9NE	8N	6NW	5N	4NE	8NE	9N	9N	6NE														
28	3NE	3S	3N	4NE	5NE	2SE	3S	2NE	5N	10SW	6E	3NE	7NW	5NW	7NW	8W	7W	6W	5SW	4SW	3NE	1NE	3SW	2W														
29	2SE	3SW	7S	9N	4W	3S	4S	4S	5S	4SW	4SW	7W	8W	8W	8W	9W	8W	6W	7W	6W	5W	3SW	5W	4SW														
30	3SW	3SW	3W	4SW	4S	3SW	2SW	3S	4W	4W	5W	7W	7W	9W	7NW	8NW	8NW	7NW	8NW	9N	11NE	9NE	5N	10N														

APPENDIX D

Area 5 Top Deck Report

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APPENDIX D

Area 5 Top Deck Report

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CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

Second Quarter 2015



Department of Natural Resources and Parks
Solid Waste Division

August 2015
Printed on recycled paper

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AREA 5 TOP DECK MONITORING QUARTERLY REPORT

SECOND QUARTER 2015

This report provides the quarterly performance analysis of the interim soil cover system over Area 5 in the Cedar Hills Regional Landfill. The intent of the report is to provide the necessary information to determine whether the top deck cover system is functioning as designed. Monitoring of leachate, stormwater and the top deck surface is conducted and reported to identify any problems so that they may be corrected in a timely manner and the environment protected from potential harmful impacts.

I. LEACHATE MONITORING

Overview of the Top Deck Monitoring Program

King County Solid Waste Division (KCSWD) is currently experiencing technical issues with the leachate volume monitoring system for Area 5. Work is underway to resolve these issues and the logged data will be reported as it becomes available in subsequent Top Deck Monitoring Reports.

KCSWD staff continues to evaluate leachate volumes collected throughout the landfill that are pumped to the wastewater treatment plant. Comparisons of the historical volumes generated through typical landfill construction and closure with the phased closure and interim top deck cover utilized in Area 5 have been made. These comparisons provide an initial assessment of the interim cover performance. The evaluation accounts for variations in rainfall by normalizing the leachate flows in terms of gallons discharged per inch of rainfall. The flow is also normalized relative to pounds of waste in-place. These normalized flows for the entire site are presented in Table 1.

TABLE 1**CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for 2ND QUARTER of 2015**

Year	Leachate	Surface Area of Refuse Areas	Refuse In Place	Precipitation	Flow			
	(MG/yr)	(Acres)	(lbs)	(in/yr)	(gal/Acre/yr)	(gal/Acre/in)	(gal/lb/yr)	(gal/lb/in)
1986	163.03	138.5	11,328,841,100	54.79	1,177,112	21,484	0.0144	0.00026
1987	139.53	138.5	12,927,926,300	39.6	1,007,422	25,440	0.0108	0.00027
1988	169.67	161.9	14,525,504,000	48.63	1,048,009	21,551	0.0117	0.00024
1989	176	161.9	16,203,204,000	44.12	1,087,110	24,640	0.0109	0.00025
1990	294.75	161.9	17,965,254,000	71.6	1,820,594	25,427	0.0164	0.00023
1991	224.27	221.4	19,778,412,000	45.85	1,012,967	22,093	0.0113	0.00025
1992	156.46	221.4	21,454,600,000	38.64	706,694	18,289	0.0073	0.00019
1993	150.83	221.4	23,051,348,000	35.01	681,264	19,459	0.0065	0.00019
1994	159.8	221.4	24,657,528,000	38.55	721,764	18,723	0.0065	0.00017
1995	201.11	221.4	26,294,654,000	48.4	908,376	18,768	0.0076	0.00016
1996	243.03	221.4	27,946,704,000	57.08	1,097,714	19,231	0.0087	0.00015
1997	239.23	221.4	29,665,380,000	57.24	1,080,511	18,877	0.0081	0.00014
1998	202.8	221.4	31,432,828,000	42.82	916,006	21,392	0.0065	0.00015
1999	219.15	283.42	33,273,828,000	45.9	773,229	16,848	0.0066	0.00014
2000	148.82	283.42	35,167,828,000	33.15	525,102	15,840	0.0042	0.00013
2001	174.08	283.42	37,041,828,000	47.28	614,194	12,991	0.0047	0.0001
2002	133.4	283.42	38,919,828,000	35.13	470,690	13,399	0.0034	0.0001
2003	181.6	283.42	40,877,828,000	46.39	640,761	13,812	0.0044	0.0001
2004	185.72	328.72	42,889,828,000	34.08	564,983	16,578	0.0043	0.00013
2005	175.31	328.72	44,867,538,000	40.75	533,313	13,087	0.0039	0.0001
2006	264.95	328.72	46,820,938,000	52.94	806,009	15,225	0.0057	0.00011
2007	161.48	328.72	47,129,756,000	38.68	491,239	16,143	0.0034	0.000112
2008	126.02	328.72	48,990,990,000	42.32	383,366	9,059	0.0026	0.00006
2009	172.16	328.72	49,414,219,997	42.42	523,741	12,347	0.0035	0.00008
2010	199.4	335.72	51,076,043,997	49.25	593,959	12,060	0.0039	0.00008
2011	180.2	353.12*	52,701,411,694	51.05	510,308	9,996	0.0034	0.00007
2012	202.3	353.12*	54,315,239,773	58.16	572,972	9,852	0.0037	0.00006
2013	156.4	353.12*	55,933,569,773	47.77	442,923	9,272	0.0028	0.00006
2014	189.14	353.12*	57,638,062,970	64.07	535,631	8,360	0.0033	0.00005
2015	74.16	353.12*	58,494,540,970	21.57	210,008	9,736	0.0013	0.00006
2015: Precipitation, leachate and refuse in place through 2nd Quarter of 2015								

* The 353.12 acre value was a plan view area calculated by ACAD, using the area inquiry feature of a closed polyline.

II. SURFACE MONITORING

KCSWD's plan for monitoring the surface of the Area 5 Top Deck is comprised of three components:

1. Landfill gas inspections, including a serpentine walk;
2. Leachate seep inspections; and,
3. Settlement monitoring.

The purpose of this monitoring is to detect any conditions affecting the cover system that may permit landfill gas emissions, leachate seeps, or excessive or differential settlement.

Landfill Gas Inspections

Each quarter, monthly inspections of the gas system, stormwater system, and cover system of Area 5 are performed by the Solid Waste Operations (SWO) staff. All internal inspection reports showed satisfactory conditions this quarter. These inspection reports are included in Appendix A: *Inspection Reports*.

Also throughout the 2nd Quarter, Facility Engineering and Science (FESU) staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A.

In addition to KCSWD inspections, one inspection was performed by Public Health – Seattle & King County (PHSKC) during the 2nd Quarter on April 29th, 2015. The inspection resulted in a satisfactory review of the landfill. The PHSKC Inspection Report is provided in Appendix A.

Serpentine Walk

Each quarter, serpentine walks are conducted across the Area 5 Top Deck and its side slopes to verify that methane gas levels in the air column do not exceed air quality standards. The results from the 2nd Quarter Serpentine Surface Monitoring Data walk that was conducted from June 16th to the 24th can be found in Appendix B: *Gas Monitoring Reports*, along with a plot of GPS generated track lines.

For the 2nd Quarter of 2015, no exceedances were detected during the serpentine walk for air quality standards.

Leachate Seep Inspections

Visual inspections for leachate seeps are conducted each quarter by KCSWD personnel in conjunction with the surface emissions monitoring and monthly inspections. No indications of leachate seeps were recorded during the 2nd Quarter of 2015 by KCSWD staff, or by PHSKC personnel.

Settlement Monitoring

Settlement of Area 5 is evaluated both through visual inspections and through topographic surveys at control points on the top deck. A site map showing the settlement monitoring points is included as Figure 1. Visual inspections are completed by both operations and engineering staff. The most recent settlement levels for Area 5 were measured on July 2nd, 2015. The survey data is given in Table 2, and the settlement at each point is given in Table 3.

As noted in Table 3, the average refuse settlement rate (measured in feet/month) for Area 5 continues to decline. For the approximate five month interval of February 9th, 2015 to July 2nd, 2015, the average rate was calculated to be 0.03 feet/month, versus 0.04 feet/month from the previous time period. This is approximately a 25% reduction in the settlement rate.

Also to note, no settlement due to erosion was observed in Area 5 during the 2nd Quarter of 2015.

Future plans for Area 5 are for continued filling to the approved 800 foot elevation. This filling will occur following the filling of Area 8, which was approved by the King County Council on Dec. 6th, 2010.

TABLE 2
CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 2ND QUARTER of 2015

A5SM-1 ^a		A5SM-2		A5SM-3 ^b		PMX20074 ^c	
Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
10/4/2005	699.18	10/4/2005	785.17	2/14/2007	786.4	8/16/2007	781.56
2/1/2006	697.7	2/1/2006	782.52	4/20/2007	786.25	2/29/2008	780.1
6/27/2006	696.51	6/27/2006	780.48	7/24/2007	785.68	7/29/2008	779.13
2/14/2007	694.53	4/20/2007	776.95	2/29/2008	784.87	11/24/2008	778.21
7/24/2007	693.34	7/24/2007	775.63	7/29/2008	784.31	4/6/2009	777.41
2/29/2008	691.77	2/29/2008	773.44	11/24/2008	783.76	7/9/2009	776.99
7/29/2008	691.26	7/29/2008	772.2	4/6/2009	783.35	12/22/2009	776.1
11/24/2008	690.61	11/24/2008	771.29	7/9/2009	783.05	3/1/2010	775.81
4/6/2009	690.16	4/6/2009	770.35	12/22/2009	782.44	8/2/2010	775.29
7/9/2009	689.77	7/9/2009	769.79	3/1/2010	782.08	12/21/2010	774.79
12/22/2009	689.13	12/22/2009	768.6	8/2/2010	781.78	4/6/2011	774.42
3/1/2010	688.77	3/1/2010	768.05	12/21/2010	781.25	8/8/2011	774.19
8/2/2010	688.6	8/2/2010	767.28	4/6/2011	780.94	1/23/2012	773.79
12/21/2010	688.1	12/21/2010	766.53	8/8/2011	780.66	5/18/2012	773.41
4/6/2011	687.83	4/6/2011	765.86	1/23/2012	780.26	7/12/2012	773.26
8/8/2011	687.46	8/8/2011	765.34	5/18/2012	779.9	--	--
1/23/2012	687.19	1/23/2012	764.53	7/12/2012	779.69	--	--
5/18/2012	686.78	5/18/2012	763.99	11/2/2012	779.56	--	--
7/12/2012	686.69	7/12/2012	763.83	5/22/2013	779.09	--	--
11/2/2012	686.55	11/6/2012	763.35	9/5/2013	779.66	--	--
5/22/2013	686.09	5/22/2013	762.77	2/19/2014	777.68	--	--
--	--	8/8/2013	762.53	2/9/2015	777.63	--	--
--	--	2/19/2014	762.06	4/6/2015	777.51	--	--
--	--	2/9/2015	761.09	7/2/2015	777.38	--	--
--	--	4/6/2015	761.11			--	--
--	--	7/2/2015	760.96			--	--

^a A5SM-1 was destroyed by filling Area 7 during Lift 4.

^b A5SM-3 is NEW as of 2/14/2007.

^c PMX20074 was destroyed during Phase 3 of Area 6.

TABLE 3**CEDAR HILLS REGIONAL LANDFILL AREA 5 SETTLEMENT for 2ND QUARTER of 2015**

Settlement Monitoring Locations	Units	SETTLEMENT DATE RANGE (MM/YY)									
		6/06 - 7/07	7/07 - 7/08	7/08 - 7/09	7/09 - 8/10	8/10 - 8/11	8/11 - 7/12	7/12-5/13	5/13-2/14	2/14- 2/15	2/15-7/15
A5SM-1	Feet	3.17	2.08	1.49	1.17	1.14	0.77	0.60	N/A	N/A	N/A
A5SM-2	Feet	4.85	3.43	2.41	2.51	1.94	1.51	1.06	0.71	0.97	0.13
A5SM-3	Feet	N/A	1.37	1.26	1.27	1.12	0.97	0.60	1.41	0.05	0.25
PMX2007-4	Feet	N/A	2.43	2.14	1.7	1.1	0.93	N/A	N/A	N/A	N/A
Average Settlement for Area 5	Feet/Date Range	4.01	2.33	1.83	1.66	1.33	1.05	0.75	1.06	0.51	0.19
	Feet/Month	0.31	0.19	0.15	0.13	0.11	0.1	0.19	0.11	0.04	0.03

III. STORMWATER & LEACHATE MONITORING

Collection of Stormwater & Leachate Samples

Samples were collected at stormwater sample location SW-S1, and leachate sample location LS-API during the 2nd Quarter of 2015. However, no samples were collected from the Area 5 Top Deck stormwater monitoring stations SW-A5TD1, SW-A5TD2, SW-A5TD4, SW-A5TD6 as there was no flow when the stations were checked. Therefore, no comparisons can be made with the stormwater or leachate samples, nor can a review be performed for evaluating exceedances for the 2nd Quarter of 2015.

IV. CONCLUSION

Stormwater samples for the Area 5 Top Deck were unable to be collected during the 2nd Quarter of 2015 due to 'No Flow' conditions when the stations were checked. This observation was in line with the overall regional precipitation levels for the quarter, which were substantially lower than historical levels. Therefore, no determinations can be made regarding Area 5's 2nd Quarter stormwater runoff with respect to exceedances of water quality criteria or benchmarks, nor can comparisons be made with background stormwater flow (from SW-S1), and leachate effluent (from LS-API).

Inspection reports however showed no issues with the interim cover system for Area 5. Additionally, Area 5 continues to settle at a declining rate, without any indication of major differential settling, nor signs of surficial erosion.

Regardless of the absence of stormwater runoff sampling results from Area 5 in the 2nd Quarter of 2015, the recent compliant historical performance trend for Area 5, coupled with ongoing inspection results verifying the integrity of the cover all provides evidence that the Area 5 Top Deck Interim Cover System continues to function to prevent interaction between refuse and stormwater runoff.

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Figures



LEGEND:

○ ACTIVE MONITORING STATION

AERIAL FLOWN SEPTEMBER 2014

DATE	REVISION	BY



KING COUNTY DEPARTMENT OF
NATURAL RESOURCES AND PARKS
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
SETTLEMENT MONITORING LOCATIONS

APPROVED: YOO DATE: Feb. 2014
 RECOMMENDED: _____ DATE: _____
 DESIGNED: _____ DRAWN: _____
 PROJECT NO.: _____ SURVEY NO.: _____ SHEET 1 OF 1
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P:\ACAD\PROJECT\King County Expansion Proposal\CARLA WORK\Figure 1.dwg Aug 01, 2007 - 3:18pm

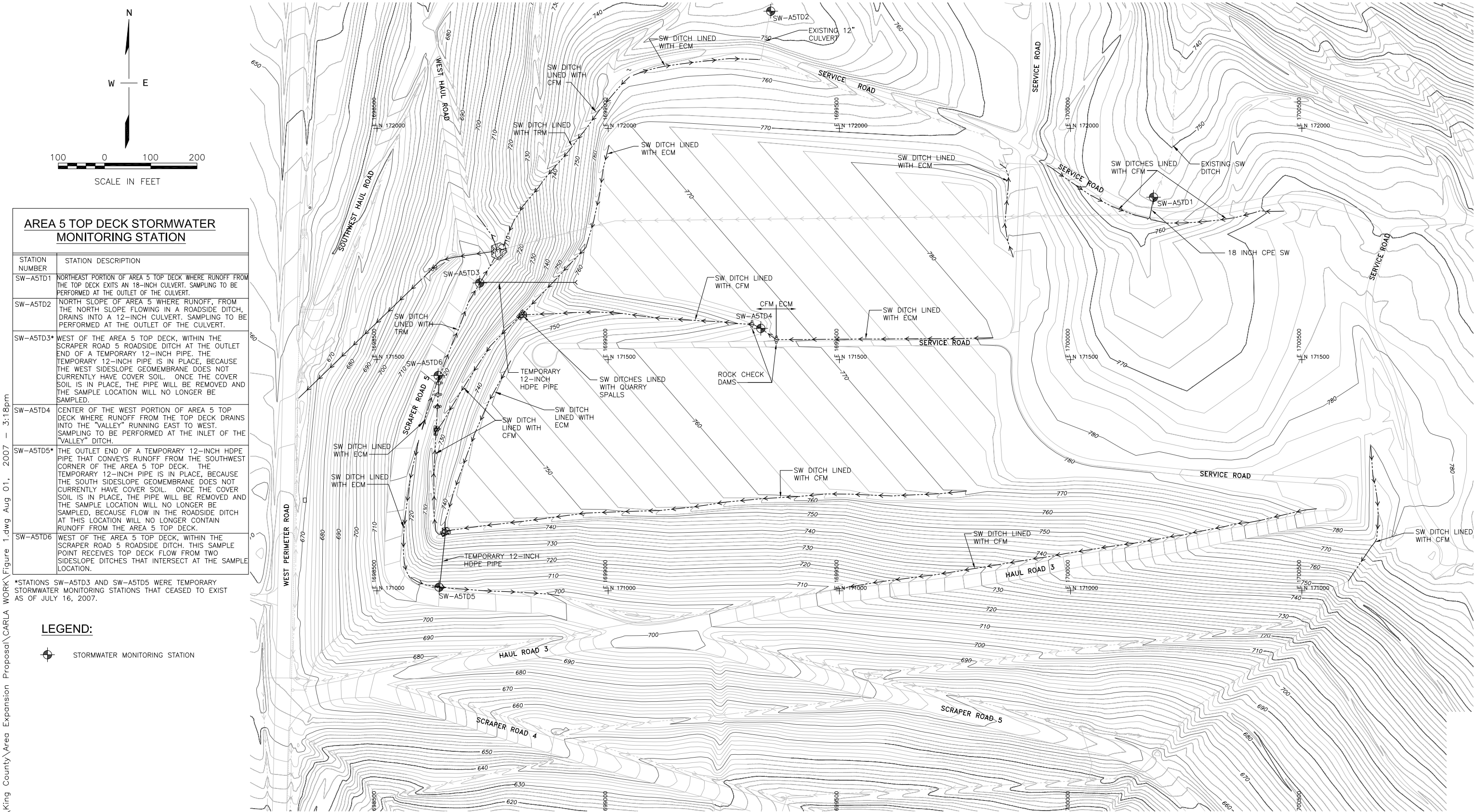


Figure 2
Area 5 Top Deck
Stormwater Monitoring Stations

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Appendix A:

Inspection Reports

SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Telephone: (206) 477-5226

Location: Cedar Hills

Ambient Temperature (°F) 50

Weather Condition: Partly Sunny

ACTION CODES

A. Gas System	OK	Not OK	B. Leachate System	OK	Not OK	C. Landfill Operations	OK	Not OK
1. Pipe Penetrations	X		1. Pump Stations	X		1. Fueling Stations	X	
2. Collection Piping	X		2. Aeration Lagoons / Basins	X		2. Vehicle Wash Stations	X	
3. Gas Extraction Wells	X		3. Aerators	X		3. Equipment	X	
4. Valve Stations	X		4. Weeps (strip drains)	X		4. Perimeter Fences	X	
5. Odor	X		5. Collection System	X		5. Vegetation	X	
6. Flare Stations	X		a. Collection Pipes	X		6. Landfill Cover	X	
7. Air Compressors	X		b. Forcemains	X		7. Drain Rock	X	
8. Noise Control	X		c. Manholes	X		9. Air Quality	X	
			d. Cleanouts	X				
D. Stormwater System			6. Generators	X		11. Vectors	X	
1. Ponds	X		7. Extraction Wells	X		12. Litter	X	
2. CB / Control Structures	X		8. Valve / Cleanout	X		13. Dust control	X	
3. Pipes / Culverts	X		9. Groundwater Extraction Wells	X		14. Other	X	
4. Trash Racks	X							
5. Ditches	X		E. Roadway System			Cover System / ESC		
6. Runoff Control Berms	X		1. Road Sweeping	X		F. Vegetation	X	
7. Discharge Points	X		2. Access Roads	X		1. Refuse	X	
8. General	X		3. Road Erosion	X		2. Cover Erosion	X	
			4. Road Pavement	X		3. Silt Fences/Filter Fabric	X	
G. Operations			5. Lane Striping	X				
1. Records Obtain / Review								

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map	Status G F P	State Reason if "Fair or Poor"	Date Corrective Action Implemented
1	D-5 & 6	F-2 thr 5		There is accumulated rock and sediment in the stormwater channel, just below the line area, that needs to be removed. See photo	
2	D2, C2	G-5 G-5		Catch basin inlet socks are need to be installed around the truck wash area and the truck wash recycle water tanks or a bio sock can be placed around the opening to prevent debris in flow.	
3	E1	G-4		Road behind the outdoor weld shop needs sweeping to remove debris/ mud and rock off of the paved surface. The same is true for the east haul road.	
4					
5					
6					
7					
8					

State the needs of the repairs in the suggested remedy box.

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
 - a. *Emergency* - stops the continuing operation of the facility
 - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
 - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
 - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the site look clean and free of blowing or loose litter. The surface water conveyances are flowing with a minimum amount of cloudiness.

There are minor issues needing attention. There are photos of each area listed. P:\SWPublic\CHL Public\CH Monthly Site Inspections\SW inspections\SW Inspection 15\April 2015

- 1 The paved area behind the outdoor weld shop needs sweeping.
- 2) The area around the trailer deadline could use additional attention to remove the debris that has accumulated against the e-block wall.
- 3) Inlet protection around the shops and truck wash have minor accumulation of debris within the catch basin. I recommend inserting catch basin sock or some sort of inlet protection device.
- 4) The asphalt berm around the trailer dead line needs repairing.
- 5) Grease sweep around the shop needs to be cleared.
- 6) The ramp to the cat tail pond needs sweeping.
- 7) The area west and above the cat tail pond needs additional erosion control.
- 8) The asphalt ditch below the exposed lined area 7 and 6 needs debris cleared from the surface water ditch.

Category number:	Action to be Completed. Suggested Remedy:
Category number:	Action to be Completed. Suggested Remedy:
Category number:	Action to be Completed. Suggested Remedy:
Category number:	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (circle Y or N)
If Y, log changes in Appendix I of SWPPP.

Potential Pollutant Sources Y / N

Site Map Y / N

9								
10								
11								

AREA CODES (for Cedar Hills)

East Main Hill = EMH
 Southwest Main Hill = SWMH
 Southeast Pit Area = SEPA

G = Good
 Area 2/3 = A2/3
 Area 4 = A4
 Stockpile = SP

F = Fair
 Aeration Ponds = AP
 So. Solid Waste Area = SSWA
 North Flare Station = NFS

P = Poor
 Area 5 = A5
 Area 6 = A6
 Central Pit = CP

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

X The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

___ The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Stevn Larry, Engineer II

Signature: [Signature] Date: 4/23/2015

DULY AUTHORIZED REPRESENTATIVE

Based on professional judgment, which of the following statements is true: (select one)

✓ The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

___ The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate information to determine compliance with the Industrial Stormwater General Permit. Based on my inquiry of the person or persons who are responsible for stormwater management at my facility, this SWPPP is, to the best of my knowledge and belief, true, accurate, and complete, and in full compliance with Permit Conditions S3 and S8, including the correct Best Management Practices from the applicable Stormwater Management Manual. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature: [Signature] Date: 4/23/15

1 | 2 | 3 | 4 | 5 | 6 | 7

A

B

C

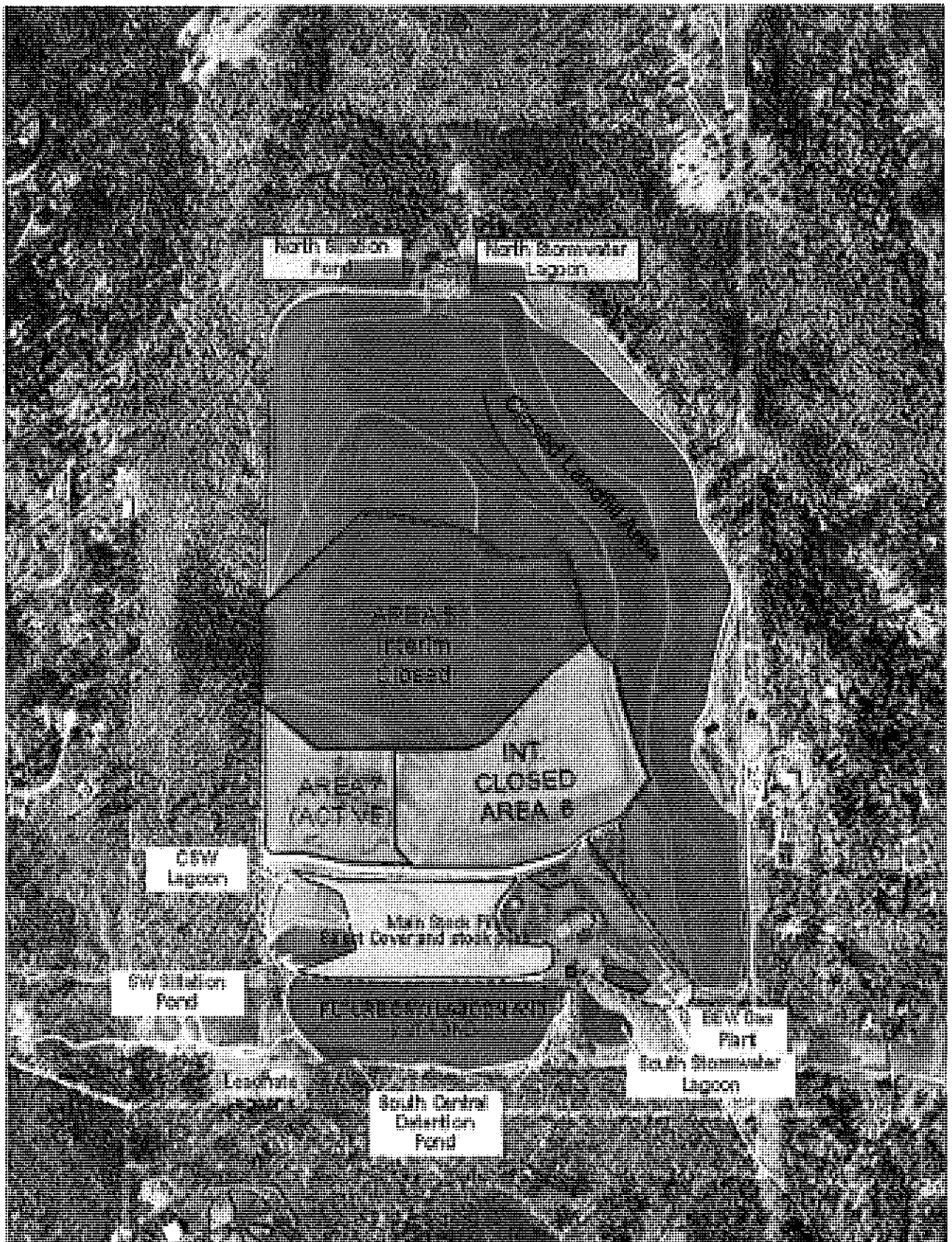
D

E

F

G

H



SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Telephone: (206) 477-5226

Location: Cedar Hills

Ambient Temperature (°F) 50

Weather Condition: Cloudy

Date: May 26, 2015

ACTION CODES

A. Gas System	OK	Not OK	B. Leachate System	OK	Not OK	C. Landfill Operations	OK	Not OK
1. Pipe Penetrations	X		1. Pump Stations	X		1. Fueling Stations	X	
2. Collection Piping	X		2. Aeration Lagoons / Basins	X		2. Vehicle Wash Stations	X	
3. Gas Extraction Wells	X		3. Aerators	X		3. Equipment	X	
4. Valve Stations	X		4. Weeps (strip drains)	X		4. Perimeter Fences	X	
5. Odor	X		5. Collection System	X		5. Vegetation	X	
6. Flare Stations	X		a. Collection Pipes	X		6. Landfill Cover	X	
7. Air Compressors	X		b. Forcemains	X		7. Drain Rock	X	
8. Noise Control	X		c. Manholes	X		9. Air Quality	X	
			d. Cleanouts	X				
D. Stormwater System			6. Generators	X		11. Vectors	X	
1. Ponds	X		7. Extraction Wells	X		12. Litter	X	
2. CB / Control Structures			8. Valve / Cleanout	X		13. Dust control	X	
3. Pipes / Culverts	X		9. Groundwater Extraction Wells	X		14. Other	X	
4. Trash Racks	X							
5. Ditches			E. Roadway System			Cover System / ESC		
6. Runoff Control Berms	X		1. Road Sweeping			F. Vegetation	X	
7. Discharge Points	X		2. Access Roads	X		1. Refuse	X	
8. General	X		3. Road Erosion	X		2. Cover Erosion	X	
			4. Road Pavement	X		3. Silt Fences/Filter Fabric	X	
G. Operations			5. Lane Striping	X				
1. Records Obtain / Review								

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map	Status G F P	State Reason if "Fair or Poor"	Date Corrective Action Implemented
1	D-5 & 6	E&F (2 thr 5)		There is accumulated sediment in the stormwater channels along the haul road that needs to be removed. See photo	
2	E1	G4		Road behind the outdoor weld shop needs sweeping to remove debris/ mud and rock off of the paved surface. The same is true for the east haul road.	
3	D1	B4	X	The cleaning (sediment removal) of the North Storm Water Lagoon, is delayed until the vacor truck has been repaired and returned to service. Final water level pumping will resume on May 28, 2015.	

AREA CODES (for Cedar Hills)

East Main Hill = EMH
 Southwest Main Hill = SWMH
 Southeast Pit Area = SEPA

G = Good
 Area 2/3 = A2/3
 Area 4 = A4
 Stockpile = SP

F = Fair
 Aeration Ponds = AP
 So. Solid Waste Area = SSWA
 North Flare Station = NFS

P = Poor
 Area 5 = A5
 Area 6 = A6
 Central Pit = CP

State the needs of the repairs in the suggested remedy box.

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
 - a. *Emergency* - stops the continuing operation of the facility
 - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
 - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
 - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the site look clean and free of blowing or loose litter. The surface water conveyances are flowing with a minimum amount of cloudiness.

There are minor issues needing attention. There are photos of each area listed. P:\SWPublic\CHL Public\CH Monthly Site Inspections\SW inspections\SW Inspection 15\April 2015

- 1) The paved area behind the outdoor weld shop needs sweeping.
- 2) The area around the trailer deadline could use additional attention to remove the debris that has accumulated against the e-block wall.
- 3) Inlet protection around the shops and truck wash have minor accumulation of debris within the catch basin. I recommend inserting catch basin sock or some sort of inlet protection device.
- 4) The asphalt berm around the trailer dead line needs repairing.
- 5) Grease sweep around the shop needs to be cleared.
- 6) The ramp to the cat tail pond needs sweeping.
- 7) The area west and above the cat tail pond needs additional erosion control.
- 8) The asphalt ditch below the exposed lined area 7 and 6 needs debris cleared from the surface water ditch.

<i>Category number: D, Areas 5 & 6</i>	Action to be Completed. Suggested Remedy: Road side ditches at the rock check dams and silt fence check dams are in need of sediment removal. This action will be scheduled when the vector truck has been repaired and returned to service the week of May 26.
<i>Category number: E, Area G-4</i>	Action to be Completed. Suggested Remedy: The asphalt road behind the outdoor weld shop needs sweeping to remove sediment track out from the scrapers.
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (circle Y or N)
If Y, log changes in Appendix I of SWPPP.

Potential Pollutant Sources Y / N

Site Map Y / N

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Stevn Larry, Engineer II

Signature: _____ Date: _____

DULY AUTHORIZED REPRESENTATIVE

Based on professional judgment, which of the following statements is true: (select one)

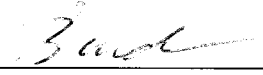
 The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this SWPPP and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate information to determine compliance with the Industrial Stormwater General Permit. Based on my inquiry of the person or persons who are responsible for stormwater management at my facility, this SWPPP is, to the best of my knowledge and belief, true, accurate, and complete, and in full compliance with Permit Conditions S3 and S8, including the correct Best Management Practices from the applicable Stormwater Management Manual. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature:  Date: _____

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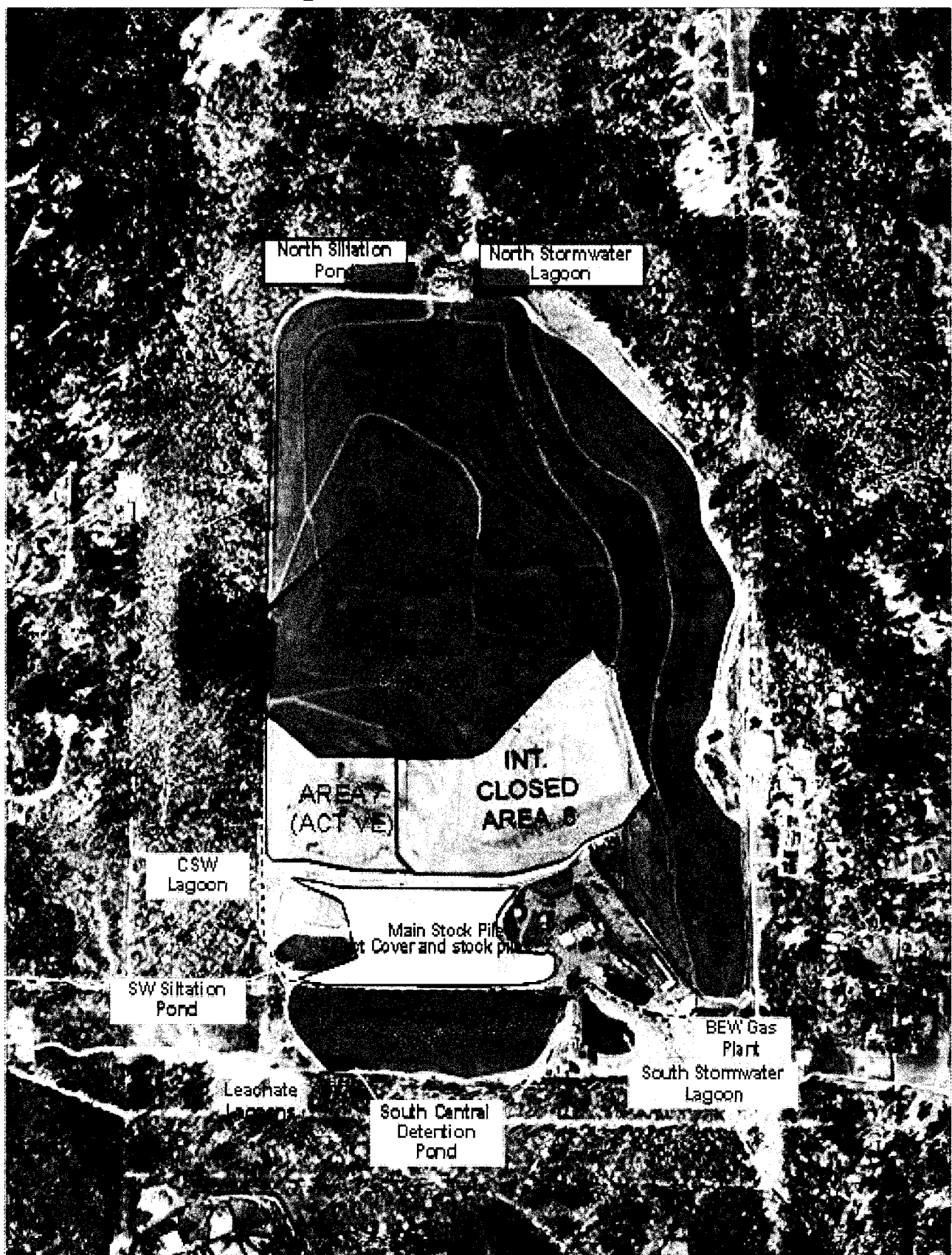
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SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Telephone: 206 477-5226

Location: C.H.

Ambient Temperature (°F) 70

Weather Condition: Sunny

ACTION CODES

A. Gas System	OK	Not OK	B. Leachate System	OK	Not OK	C. Landfill Operations	OK	Not OK
1. Pipe Penetrations	X		1. Pump Stations	X		1. Fueling Stations	X	
2. Collection Piping	X		2. Aeration Lagoons / Basins	X		2. Vehicle Wash Stations	X	
3. Gas Extraction Wells	X		3. Aerators	X		3. Equipment	X	
4. Valve Stations	X		4. Weeps (strip drains)	X		4. Perimeter Fences	X	
5. Odor	X		5. Collection System	X		5. Vegetation	X	
6. Flare Stations	X		a. Collection Pipes	X		6. Landfill Cover	X	
7. Air Compressors	X		b. Forcemains	X		7. Drain Rock	X	
8. Noise Control	X		c. Manholes	X		9. Air Quality	X	
			d. Cleanouts	X				
D. Stormwater System			6. Generators	X		11. Vectors	X	
1. Ponds	X		7. Extraction Wells	X		12. Litter	X	
2. CB / Control Structures	X		8. Valve / Cleanout	X		13. Dust control	X	
3. Pipes / Culverts	X		9. Groundwater Extraction Wells	X		14. Other	X	
4. Trash Racks	X							
5. Ditches	X		E. Roadway System			Cover System / ESC		
6. Runoff Control Berms	X		1. Road Sweeping	X		F. Vegetation	X	
7. Discharge Points	X		2. Access Roads	X		1. Refuse	X	
8. General	X		3. Road Erosion	X		2. Cover Erosion	X	
			4. Road Pavement	X		3. Silt Fences/Filter Fabric	X	
G. Operations			5. Lane Striping	X				
1. Records Obtain / Review	X							

Item No.	Action Code(s)	Area Code(s) (See below or over for map)	Status	State Reason if "Fair or Poor"	Date Corrective Action Implemented
		Area Map	G F P		
1	D1	B4	X	North Stormwater lagoon was cleaned and inspected. The liner has tears and small holes in several locations.	
2	F3	G4	X	The soil stock piles located behind the out door weld shop requires silt fencing containment.	
3					
4					
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11					

AREA CODES (for Cedar Hills)

G = Good

F = Fair

P = Poor

Revised: 01/21/2015

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Printed: 1/23/2015

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East Main Hill = EMH
Southwest Main Hill = SWMH
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Area 2/3 = A2/3
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Stockpile = SP

Aeration Ponds = AP
So. Solid Waste Area = SSWA
North Flare Station = NFS

Area 5 = A5
Area 6 = A6
Central Pit = CP

State the needs of the repairs in the suggested remedy box.

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
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 - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the landfill appears maintained. Construction of the new access roads, excavation of new roads and Area 8 development has the generated a lot of dust and soil tracking onto harden surfaces. Contractors are a bit behind in the cleanup. The North leachate pond has been drained and sediment removed. An inspection of the liner revealed a couple of breaks in the liner. The breaks are above the average water level and are not a problem. Photos of the inspection can be found at:

P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW inspections\SW Inspection 15\June 2015

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
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SWPPP Modifications Necessary? (circle **Y** or **N**)

Potential Pollutant Sources **Y / N**

Site Map **Y / N**

If Y, log changes in Appendix I of SWPPP.

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

- ☐ *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*
☐ *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Stevn Larry, Engineer II

Signature: _____ Date: _____

DULY AUTHORIZED REPRESENTATIVE

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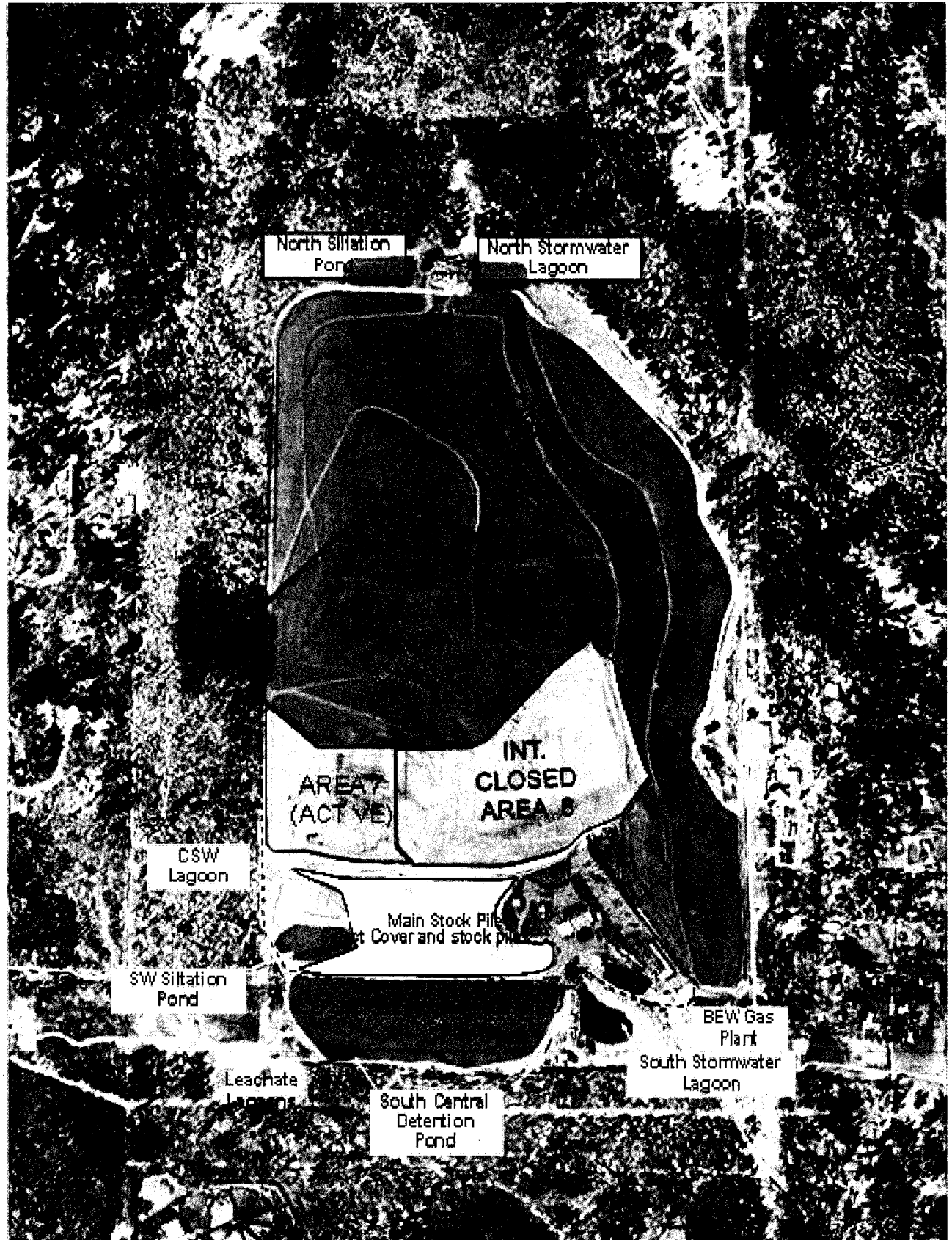
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Printed name: Bill Berni, Operations Manager

Signature:  Date: _____

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SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Telephone: 206 477-5226

Location: C.H.

Ambient Temperature (°F) 70

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3. Gas Extraction Wells	X		3. Aerators	X		3. Equipment	X	
4. Valve Stations	X		4. Weeps (strip drains)	X		4. Perimeter Fences	X	
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		Area	Map	G	F	P		
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AREA CODES (for Cedar Hills)

G = Good

F = Fair

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Revised: 01/21/2015

Page 1 of 4

Printed: 1/23/2015

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Category number:	Action to be Completed. Suggested Remedy:
Category number:	Action to be Completed. Suggested Remedy:
Category number:	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (circle Y or N)

Potential Pollutant Sources Y / N

Site Map Y / N

If Y, log changes in Appendix I of SWPPP.

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

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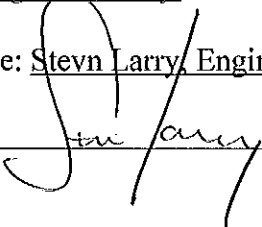
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☐ *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Stevn Larry, Engineer II

Signature:  Date: June 12, 2015

DULY AUTHORIZED REPRESENTATIVE

Based on professional judgment, which of the following statements is true: (select one)

☐ *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

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* Immediately notify Environmental Compliance Coordinator

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Printed name: Bill Berni, Operations Manager

Signature:  Date: 6/17/15

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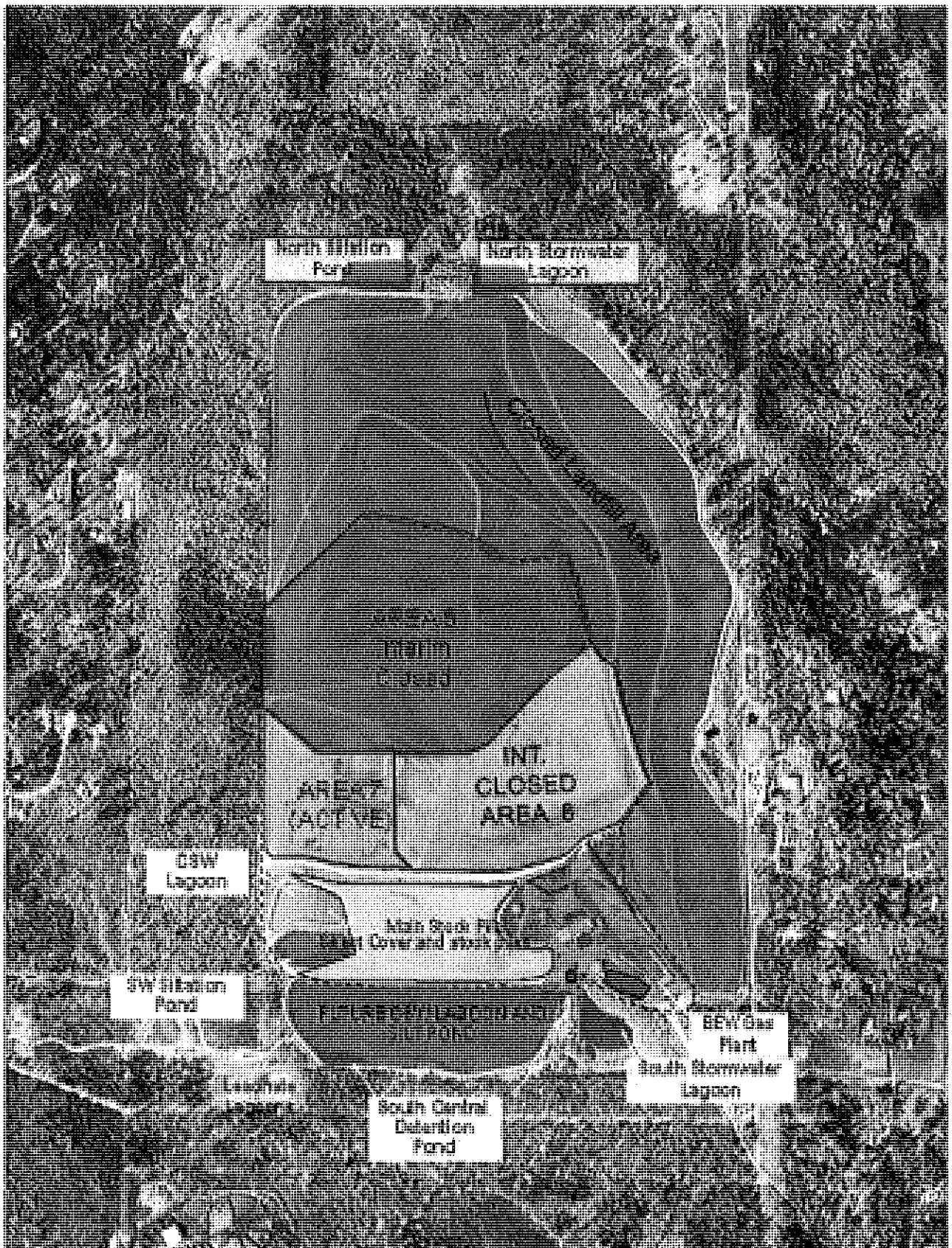
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SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
ESTABLISHMENT INFORMATION: CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385 Program Record: PR0015736	INSPECTION INFORMATION: Date of Inspection: Wednesday, April 29, 2015 Time In: 9:53 am Time Out: 11:15 am Inspector: David Christensen Result: SATISFACTORY

VIOLATIONS OBSERVED (if any)

OVERALL INSPECTION COMMENTS:

4- PHSKC inspectors were driven trough the landfill by Bill and Scott from KCSW. There was no inspection sheet to sign but inspectors signed in at C.H. front desk.
No violations noted during the inspection. Inspection was mainly an orientation inspection for new Land Fill inspectors.

PIC Phone #:

Email:

INSPECTION CHECKLIST

The following items are evaluated during inspections.
Violations cited as out of compliance during this inspection are highlighted below.
Out=out of compliance

OUT**Additional Operating Criteria WAC 173-351-220(1)**

- ☐ 0837-Road dust must be controlled
- ☐ 0838-Litter must be controlled
- ☐ 0839-Scavenging must be prohibited
- ☐ 0840-Staffing must be a minimum 2 personnel on site with one at the active portion when open
- ☐ 0841-Certification of operators of solid waste landfills must be current
- ☐ 0842-Reserve operational equipment must be available and adequate
- ☐ 0843-Active area boundaries must be clearly marked
- ☐ 0844-Must compact solid waste before succeeding layers are added per WAC
- ☐ 0845-Maintain monitoring systems for groundwater, explosive gas and other monitoring per permit
- ☐ 0846-Provide orderly and sanitary recycling methods to general public unless alternatives provided
- ☐ 0847-Prohibit disposal of dangerous waste unless DWR are met
- ☐ 0848-Must allow inspections by public health

Annual Report

- ☐ 0828-Annual report due April 1st

Closure and post-closure care WAC 173-351-500

- ☐ 0856-Final cover installed to minimize, infiltration and erosion per design
- ☐ 0857-Closure plan followed for areas of the MSWLF unit within 30 days of final receipt of wa-stes
- ☐ 0858-For closed areas, closure activities must be completed within 180 days
- ☐ 0859-For closed areas post closure care must be conducted per post- closure plan and WAC
- ☐ 0860-Final cover for closed areas must be maintained (vegetation, settlement, erosion,# run on/off)
- ☐ 0861-Leachate collection systems maintained and operated per post-closure plan and WAC 173-351-300
- ☐ 0862-Gas monitoring systems maintained and operated per post-closure plan and WAC 173-351-200

Design Criteria New MSWLF expansion 173-351-300

- ☐ 0849-New MSWLF units and expansions have approved liner & leachate collection system construction

Groundwater sampling and analysis requirements WAC 173-351-4

- ☐ 0853-Roundwater monitoring must be accordance with an approved sampling / analysis document

Liquids Restrictions

- ☐ 0825-Bulk or non-containerized liquid waste may not be placed in MSWLF unit unless exceptions allow
- ☐ 0826-Containers holding liquid waste may not be placed in a MSWLF unit unless meet 200 (9)(b)(i-iii)

MSLF Groundwater reporting WAC 173-351-415

- ☐ 0854-Annual groundwater report due by April 1st
- ☐ 0855-Quarterly groundwater monitoring reports submitted

MSLF Leachate Managementfor Surface Impoundments WAC 173-**OUT****Design Standards - Surface Impoundments**

- ☐ 0740-Embankments and slopes must be maintained and be in good condition
- ☐ 0741-Freeboard for the surface impoundment is > 18 inches or as specified per the permit

Ground Water monitoring requirements for surface impoundments and tanks

- ☐ 0766-Surface impoundments not equipped with a leak detection layer must meet WAC 173-350-500
- ☐ 0767-Surface impoundments w/a leak detection layer are subject to WAC 173-350-040 (5),173-350-330(b)

Operating standards - Surface Impoundments and tanks

- ☐ 0750-Must prevent overfilling and maintain required freeboard = 18 inches from wave action/precip
- ☐ 0751-Must control access to the site
- ☐ 0752-Must control nuisance odors for wastes or liquids
- ☐ 0753-Must control birds at impoundments storing wastes capable of attracting birds
- ☐ 0754-Records kept of weekly inspections and liner inspections at least every 5 years
- ☐ 0755-Daily records kept on-site of the quantity and type of wastes removed for at least 5 years

Operating Criteria WAC 173-351-200**Access Restriction**

- ☐ 0818-Access must be controlled (public /animal/vehicle). Barriers must be maintained.
- ☐ 0819-Lockable gate at each entry must be maintained and in good condition

Air Criteria

- ☐ 0816-MSWLF units must meet all applicable air standards
- ☐ 0817-Open burning of garbage is prohibited. Other types of burning only under appropriate permit

Cover Material Requirements

- ☐ 0806-Approved cover material must be applied at a depth of 6 in# at the end of the day or as needed
- ☐ 0807-Only approved alternative cover materials are in use and are applied at an approved depth

Disease Vectors Controlled

- ☐ 0808-Procedures must be in place to control disease vectors e g. (rodents, flies, mosquitoes, other)

Explosive Gases Control

- ☐ 0809-Methane gas must not exceed 25% of lower explosive limit for facility structures
- ☐ 0810-Methane gas concentration must not exceed lower explosive limit at the property boundary-beyond
- ☐ 0811-Methane gas concentration must not exceed 100ppm/volume of methane in offsite structures
- ☐ 0812-Explosive gases must be controlled and a routine methane monitoring program in place
- ☐ 0813-Monitoring for explosive gas occurs quarterly at a minimum
- ☐ 0814-Required measures must be taken if methane gas levels exceed limits (notify, monitor, evacuate)
- ☐ 0815-Must have procedures for methane gas level exceedance (gas levels, interim steps, remediation)

Incoming Waste Management

- ☐ 0800-Procedures must be in place for excluding the receipt of prohibited waste
- ☐ 0801-Random inspections must be conducted for incoming loads to prevent receipts of prohibited waste
- ☐ 0802-Record must be kept of random inspections of incoming loads to prevent prohibited waste
- ☐ 0803-Facility personnel must be trained to recognize prohibited wastes and training logs kept
- ☐ 0804-Immediate notification to Public Health and Ecology for any prohibited waste discovered

Performance Standards

- ☐ 0290-Must not pose a threat to human health or environment
- ☐ 0291-Protects from ground water contamination
- ☐ 0292-The facility must conform to the approved local comprehensive solid waste management plan
- ☐ 0293-Complies with RCW 70.94 Emission or ambient air quality standards
- ☐ 0294-Complies with all other local/state/federal laws and regulations

Performance Standards for groundwater monitoring System Design

- ☐ 0850-All groundwater monitoring system must be designed and maintained per WAC 173-351-405
- ☐ 0851-All wells must be clearly labeled, capped and locked
- ☐ 0852-Equipment used for groundwater monitoring is maintained

Permit Requirements

- ☐ 0863-Permit Required

Plan of Operation

- ☐ 0829-Plan of operation is current, complete and a hard copy present at the permit approved location
- ☐ 0830-Operators handle solid waste as described in plan of operations
- ☐ 0831-Operators conducting inspections per plan of operation
- ☐ 0832-Plan of operation procedures followed for fire or explosion
- ☐ 0833-Plan of operation procedures followed for actions to take for sudden releases of gas, leachate
- ☐ 0834-Maintain and operate leachate and gas collection equipment per plan of operation
- ☐ 0835-Safety equipment listed in plan of operation must be on-site and working (shower, eyewash)
- ☐ 0836-Any additional requirements by Public Health are followed as outlined on the plan of operation

Record Keeping

- ☐ 0827-Operating record is available at the approved location and is complete for all required records

Run-on/runoff Control Systems

- ☐ 0820-Prevent run-on to the active portion of the landfill during the peak discharge from 25yr storm
- ☐ 0821-Must provide runoff control for active portions to collect & control water vol. 24hr/25yr storm
- ☐ 0822-Runoff from active portion of the landfill must be handled in accordance w. WAC 173-351-200(8)

Surface Water Requirements

- ☐ 0823-MSWLF units must not discharge pollutants into waters of the state
- ☐ 0824-Must not cause the discharge of a nonpoint source pollution to waters of the state

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Cedar Hills Area 5 Maintenance

for the period 04/01/2015 to 06/30/2015

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Area 5						
	CHAREA5	0000014452	CLOSED	Monthly Gas System PM	04/01/2015	N
	CHAREA5	0000014452	CLOSED	Monthly Stormwater PM	04/01/2015	N
	CHAREA5	0000014452	CLOSED	Monthly Cover System PM	04/03/2015	N
	CHAREA5	0000014593	CLOSED	Monthly Gas System PM	05/11/2015	N
	CHAREA5	0000014593	CLOSED	Monthly Stormwater PM	05/11/2015	N
	CHAREA5	0000014593	CLOSED	Monthly Cover System PM	05/11/2015	N
	CHAREA5	0000014729	CLOSED	Monthly Gas System PM	06/05/2015	N
	CHAREA5	0000014729	CLOSED	Monthly Stormwater PM	06/05/2015	N
	CHAREA5	0000014729	CLOSED	Monthly Cover System PM	06/05/2015	N
	CHAREA5E	0000014428	CLOSED	Monthly Header PM	04/20/2015	N
	CHAREA5E	0000014569	CLOSED	Monthly Header PM	05/05/2015	N
	CHAREA5E	0000014706	CLOSED	Monthly Header PM	06/03/2015	N
	CHAREA5W	0000014429	CLOSED	Monthly Header PM	04/15/2015	N
	CHAREA5W	0000014570	CLOSED	Monthly Header PM	05/05/2015	N
	CHAREA5W	0000014705	CLOSED	Monthly Header PM	06/03/2015	N

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Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 04/01/2015 to 06/30/2015

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
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Catch Basins

Cedar Hills	0000027952	CLOSED	PMM	04/08/2015	N
Cedar Hills	0000028294	CLOSED	PMM	05/08/2015	Y
Cedar Hills	0000028604	CLOSED	PMM	06/01/2015	N

Trash Racks

Cedar Hills	0000028023	CLOSED	PMW	04/08/2015	N
Cedar Hills	0000028124	CLOSED	PMW	04/15/2015	Y
Cedar Hills	0000028200	CLOSED	PMW	04/21/2015	N
Cedar Hills	0000028257	CLOSED	PMW	04/28/2015	Y
Cedar Hills	0000028350	CLOSED	PMW	05/08/2015	Y
Cedar Hills	0000028463	CLOSED	PMW	05/13/2015	Y
Cedar Hills	0000028502	CLOSED	PMW	05/18/2015	Y
Cedar Hills	0000028560	CLOSED	PMW	05/28/2015	Y
Cedar Hills	0000028688	CLOSED	PMW	06/01/2015	Y
Cedar Hills	0000028711	CLOSED	PMW	06/08/2015	Y
Cedar Hills	0000028802	CLOSED	PMW	06/15/2015	Y
Cedar Hills	0000028859	CLOSED	PMW	06/22/2015	Y
Cedar Hills	0000028973	CLOSED	PMW	06/30/2015	Y

Ditches

Cedar Hills	0000027952	CLOSED	PMM	04/08/2015	N
Cedar Hills	0000028023	CLOSED	PMW	04/08/2015	N
Cedar Hills	0000028124	CLOSED	PMW	04/15/2015	Y
Cedar Hills	0000028200	CLOSED	PMW	04/21/2015	N
Cedar Hills	0000028257	CLOSED	PMW	04/28/2015	Y
Cedar Hills	0000028294	CLOSED	PMM	05/08/2015	Y
Cedar Hills	0000028350	CLOSED	PMW	05/08/2015	Y
Cedar Hills	0000028463	CLOSED	PMW	05/13/2015	Y
Cedar Hills	0000028502	CLOSED	PMW	05/18/2015	Y
Cedar Hills	0000028560	CLOSED	PMW	05/28/2015	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000028604	CLOSED	PMM	06/01/2015	N
	Cedar Hills	0000028605	CLOSED	PMQ	06/01/2015	Y
	Cedar Hills	0000028688	CLOSED	PMW	06/01/2015	Y
	Cedar Hills	0000028711	CLOSED	PMW	06/08/2015	Y
	Cedar Hills	0000028802	CLOSED	PMW	06/15/2015	Y
	Cedar Hills	0000028859	CLOSED	PMW	06/22/2015	Y
	Cedar Hills	0000028973	CLOSED	PMW	06/30/2015	Y

Pipes/Culverts

Cedar Hills	0000028605	CLOSED	PMQ	06/01/2015	Y
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Ponds/Lagoons

Cedar Hills	0000028023	CLOSED	PMW	04/08/2015	N
Cedar Hills	0000028124	CLOSED	PMW	04/15/2015	Y
Cedar Hills	0000028200	CLOSED	PMW	04/21/2015	N
Cedar Hills	0000028257	CLOSED	PMW	04/28/2015	Y
Cedar Hills	0000028350	CLOSED	PMW	05/08/2015	Y
Cedar Hills	0000028463	CLOSED	PMW	05/13/2015	Y
Cedar Hills	0000028502	CLOSED	PMW	05/18/2015	Y
Cedar Hills	0000028560	CLOSED	PMW	05/28/2015	Y
Cedar Hills	0000028605	CLOSED	PMQ	06/01/2015	Y
Cedar Hills	0000028688	CLOSED	PMW	06/01/2015	Y
Cedar Hills	0000028711	CLOSED	PMW	06/08/2015	Y
Cedar Hills	0000028802	CLOSED	PMW	06/15/2015	Y
Cedar Hills	0000028859	CLOSED	PMW	06/22/2015	Y
Cedar Hills	0000028973	CLOSED	PMW	06/30/2015	Y

General

Cedar Hills	0000028023	CLOSED	PMW	04/08/2015	N
Cedar Hills	0000028124	CLOSED	PMW	04/15/2015	Y
Cedar Hills	0000028200	CLOSED	PMW	04/21/2015	N
Cedar Hills	0000028257	CLOSED	PMW	04/28/2015	Y
Cedar Hills	0000028350	CLOSED	PMW	05/08/2015	Y
Cedar Hills	0000028463	CLOSED	PMW	05/13/2015	Y
Cedar Hills	0000028502	CLOSED	PMW	05/18/2015	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000028560	CLOSED	PMW	05/28/2015	Y
	Cedar Hills	0000028605	CLOSED	PMQ	06/01/2015	Y
	Cedar Hills	0000028688	CLOSED	PMW	06/01/2015	Y
	Cedar Hills	0000028711	CLOSED	PMW	06/08/2015	Y
	Cedar Hills	0000028802	CLOSED	PMW	06/15/2015	Y
	Cedar Hills	0000028859	CLOSED	PMW	06/22/2015	Y
	Cedar Hills	0000028973	CLOSED	PMW	06/30/2015	Y

Leachate System

Cedar Hills	0000028605	CLOSED	PMQ	06/01/2015	Y
CHPS4	0000027991	CLOSED	PMW	04/07/2015	N
CHPS3	0000027992	CLOSED	PMW	04/07/2015	N
CHPS1	0000027994	CLOSED	PMW	04/07/2015	N
CHPS2	0000028110	CLOSED	PMW	04/14/2015	N
CHPS3	0000028111	CLOSED	PMW	04/14/2015	N
CHPS2	0000028173	CLOSED	PMW	04/21/2015	N
CHPS3	0000028174	CLOSED	PMW	04/21/2015	N
CHPS1	0000028244	CLOSED	PMW	04/28/2015	N
CHPS2	0000028245	CLOSED	PMW	04/28/2015	N
CHPS3	0000028246	CLOSED	PMW	04/28/2015	N
CHPS4	0000028247	CLOSED	PMW	04/28/2015	N
CHPS3	0000028341	CLOSED	PMW	05/04/2015	N
CHPS2	0000028342	CLOSED	PMW	05/04/2015	Y
CHPS3	0000028411	CLOSED	PMW	05/11/2015	N
CHPS4	0000028412	CLOSED	PMW	05/11/2015	N
CHPS1	0000028413	CLOSED	PMW	05/11/2015	N
CHPS2	0000028414	CLOSED	PMW	05/11/2015	N
CHPS4	0000028479	CLOSED	PMW	05/18/2015	N
CHPS3	0000028480	CLOSED	PMW	05/18/2015	N
CHPS2	0000028482	CLOSED	PMW	05/18/2015	N
CHPS1	0000028483	CLOSED	PMW	05/18/2015	N
CHPS4	0000028552	CLOSED	PMW	05/25/2015	N
CHPS2	0000028555	CLOSED	PMW	06/02/2015	N
CHPS1	0000028640	CLOSED	PMW	06/02/2015	N
CHPS3	0000028745	CLOSED	PMW	06/07/2015	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS2	0000028746	CLOSED	PMW	06/07/2015	N
	CHPS2	0000028778	CLOSED	PMW	06/15/2015	N
	CHPS3	0000028779	CLOSED	PMW	06/15/2015	N
	CHPS4	0000028780	CLOSED	PMW	06/15/2015	N
	CHPS1	0000028838	CLOSED	PMW	06/15/2015	N
	CHPS4	0000028842	CLOSED	PMW	06/22/2015	Y
	CHPS3	0000028843	CLOSED	PMW	06/22/2015	N
	CHPS1	0000028845	CLOSED	PMW	06/22/2015	N
	CHPS2	0000028948	CLOSED	PMW	06/29/2015	N
	CHPS1	0000028949	CLOSED	PMW	06/29/2015	N
	CHPS4	0000028951	CLOSED	PMW	06/29/2015	Y
	CHPS2	0000027993	CLOSED	PMW	04/07/2015	N
	CHPS1	0000028109	CLOSED	PMW	04/14/2015	N
	CHPS4	0000028112	CLOSED	PMW	04/14/2015	N
	CHPS1	0000028172	CLOSED	PMW	04/21/2015	N
	CHPS4	0000028175	CLOSED	PMW	04/21/2015	N
	CHPS4	0000028744	CLOSED	PMW	06/07/2015	Y
	CHPS2	0000028844	CLOSED	PMW	06/22/2015	N
	CHPS3	0000028947	CLOSED	PMW	06/29/2015	N
	CHPS4	0000028340	CLOSED	PMW	05/04/2015	N
	CHPS1	0000028343	CLOSED	PMW	05/04/2015	N
	CHPS3	0000028553	CLOSED	PMW	05/25/2015	N
	CHPS1	0000028556	CLOSED	PMW	05/25/2015	N
	CHPS3	0000028639	CLOSED	PMW	06/02/2015	N
	LEPS	0000027943	CLOSED	PMM	04/07/2015	Y
	LEPS	0000027999	CLOSED	PMW	04/07/2015	Y
	LEPS	0000028107	CLOSED	PMW	04/14/2015	N
	LEPS	0000028179	CLOSED	PMW	04/21/2015	N
	LEPS	0000028251	CLOSED	PMW	04/28/2015	N
	LEPS	0000028275	CLOSED	PMM	05/04/2015	Y
	LEPS	0000028275	CLOSED	PMM	05/04/2015	Y
	LEPS	0000028347	CLOSED	PMW	05/04/2015	N
	LEPS	0000028418	CLOSED	PMW	05/11/2015	N
	LEPS	0000028477	CLOSED	PMW	05/18/2015	N
	LEPS	0000028548	CLOSED	PMW	06/07/2015	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	LEPS	0000028596	CLOSED	PMM	06/02/2015	Y
	LEPS	0000028596	CLOSED	PMM	06/02/2015	Y
	LEPS	0000028637	CLOSED	PMW	06/02/2015	N
	LEPS	0000028784	CLOSED	PMW	06/15/2015	N
	LEPS	0000028850	CLOSED	PMW	06/22/2015	N
	LEPS	0000028952	CLOSED	PMW	06/29/2015	N

Landfill Cover

CHSTOCKPILE	0000014449	CLOSED	PMV	04/01/2015	N
CHAREA4	0000014451	CLOSED	PMV	04/01/2015	N
CHAREA5	0000014452	CLOSED	PMV	04/03/2015	N
CHAREAS23	0000014455	CLOSED	PMV	04/01/2015	N
CHEMH	0000014457	CLOSED	PMV	04/01/2015	N
CHSEPA	0000014458	CLOSED	PMV	04/01/2015	N
CHSSWA	0000014459	CLOSED	PMV	04/01/2015	N
CHSWMH	0000014460	CLOSED	PMV	04/01/2015	N
CHNFLARESTN	0000014461	CLOSED	PMV	04/01/2015	N
CHSTOCKPILE	0000014590	CLOSED	PMV	05/11/2015	N
CHAPONDS	0000014591	CLOSED	PMV	05/11/2015	N
CHAREA4	0000014592	CLOSED	PMV	05/11/2015	N
CHAREA5	0000014593	CLOSED	PMV	05/11/2015	N
CHAREA6	0000014594	CLOSED	PMV	05/11/2015	N
CHCENTRALPIT	0000014597	CLOSED	PMV	05/11/2015	N
CHEMH	0000014598	CLOSED	PMV	05/11/2015	N
CHSSWA	0000014600	CLOSED	PMV	05/11/2015	N
CHSWMH	0000014601	CLOSED	PMV	05/11/2015	N
CHSTOCKPILE	0000014726	CLOSED	PMV	06/05/2015	N
CHAPONDS	0000014727	CLOSED	PMV	06/05/2015	N
CHAREA5	0000014729	CLOSED	PMV	06/05/2015	N
CHAREA6	0000014730	CLOSED	PMV	06/05/2015	N
CHAREAS23	0000014732	CLOSED	PMV	06/05/2015	N
CHCENTRALPIT	0000014733	CLOSED	PMV	06/05/2015	N
CHSEPA	0000014735	CLOSED	PMV	06/05/2015	N
CHSSWA	0000014736	CLOSED	PMV	06/05/2015	N
CHNFLARESTN	0000014738	CLOSED	PMV	06/05/2015	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREAS23	0000014596	CLOSED	PMV	05/11/2015	N
	CHSEPA	0000014599	CLOSED	PMV	05/11/2015	N
	CHAREA4	0000014728	CLOSED	PMV	06/05/2015	N
	CHEMH	0000014734	CLOSED	PMV	06/05/2015	N
	CHAPONDS	0000014450	CLOSED	PMV	04/01/2015	N
	CHAREA6	0000014453	CLOSED	PMV	04/01/2015	N
	CHCENTRALPIT	0000014456	CLOSED	PMV	04/01/2015	N
	CHNFLARESTN	0000014602	CLOSED	PMV	05/11/2015	N
	CHSWMH	0000014737	CLOSED	PMV	06/05/2015	N

Landfill Gas

CHAREAS23	0000014375	CLOSED	PMW	04/01/2015	N
CHEMH	0000014385	CLOSED	PMW	04/07/2015	N
CHCMH	0000014396	CLOSED	PMW	04/03/2015	N
CHAREA5E	0000014422	CLOSED	PMW	04/06/2015	N
CHAREA6	0000014424	CLOSED	PMW	04/07/2015	N
CHSSWA	0000014425	CLOSED	PMW	04/06/2015	N
CHEMH	0000014469	CLOSED	PMW	04/21/2015	N
CHCMH	0000014478	CLOSED	PMW	04/17/2015	N
CHCMH	0000014478	CLOSED	PMW	04/21/2015	N
CHAREA5E	0000014495	CLOSED	PMW	04/20/2015	N
CHAREA6	0000014497	CLOSED	PMW	04/22/2015	N
CHSSWA	0000014498	CLOSED	PMW	04/20/2015	N
CHEMH	0000014527	CLOSED	PMW	05/05/2015	N
CHAREA5E	0000014563	CLOSED	PMW	05/05/2015	N
CHAREA5W	0000014564	CLOSED	PMW	05/05/2015	N
CHSSWA	0000014566	CLOSED	PMW	05/27/2015	N
CHEMH	0000014610	CLOSED	PMW	05/18/2015	N
CHSEPA	0000014611	CLOSED	PMW	05/20/2015	N
CHAREA5W	0000014619	CLOSED	PMW	05/19/2015	N
CHCMH	0000014631	CLOSED	PMW	05/27/2015	N
CHSEPA	0000014663	CLOSED	PMW	06/02/2015	N
CHCMH	0000014675	CLOSED	PMW	06/03/2015	N
CHAREA5E	0000014699	CLOSED	PMW	06/05/2015	N
CHAREA6	0000014701	CLOSED	PMW	06/10/2015	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHSSWA	0000014702	CLOSED	PMW	06/05/2015	N
	CHAREAS23	0000014742	CLOSED	PMW	06/25/2015	N
	CHCMH	0000014755	CLOSED	PMW	06/29/2015	N
	CHAREA5E	0000014772	CLOSED	PMW	06/18/2015	N
	CHAREA6	0000014774	CLOSED	PMW	06/24/2015	N
	CHSSWA	0000014775	CLOSED	PMW	06/26/2015	Y
	CHAREA5E	0000014618	CLOSED	PMW	05/19/2015	N
	CHAREA5W	0000014423	CLOSED	PMW	04/06/2015	N
	CHAREAS23	0000014465	CLOSED	PMW	04/21/2015	N
	CHSSWA	0000014621	CLOSED	PMW	05/19/2015	N
	CHSEPA	0000014386	CLOSED	PMW	04/01/2015	N
	CHSEPA	0000014528	CLOSED	PMW	05/07/2015	N
	CHSEPA	0000014748	CLOSED	PMW	06/15/2015	N
	CHCMH	0000014540	CLOSED	PMW	05/06/2015	N
	CHAREA5W	0000014496	CLOSED	PMW	04/20/2015	N
	CHAREA5W	0000014700	CLOSED	PMW	06/05/2015	N
	CHAREA5W	0000014773	CLOSED	PMW	06/18/2015	N
	CHEMH	0000014662	CLOSED	PMW	06/01/2015	N
	CHEMH	0000014747	CLOSED	PMW	06/18/2015	N
	CHAREAS23	0000014516	CLOSED	PMW	05/12/2015	N
	CHAREAS23	0000014606	CLOSED	PMW	05/27/2015	N
	CHAREAS23	0000014652	CLOSED	PMW	06/11/2015	N
	CHAREA6	0000014565	CLOSED	PMW	05/07/2015	N
	CHAREA6	0000014620	CLOSED	PMW	05/28/2015	N
	CHSEPA	0000014470	CLOSED	PMW	04/16/2015	N

Landfill Roads

CHSTOCKPILE	0000014449	CLOSED	PMR	04/01/2015	N
CHSTOCKPILE	0000014590	CLOSED	PMR	05/11/2015	N
CHSTOCKPILE	0000014726	CLOSED	PMR	06/05/2015	N
CHACTIVEAREA	0000014440	CLOSED	PMR	04/01/2015	N
CHACTIVEAREA	0000014581	CLOSED	PMR	05/11/2015	N
CHACTIVEAREA	0000014717	CLOSED	PMR	06/05/2015	N
CHPSR	0000014442	CLOSED	PMR	04/01/2015	N
CHPSR	0000014583	CLOSED	PMR	05/11/2015	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPSR	0000014719	CLOSED	PMR	06/05/2015	N
	CHMAINGATE	0000014441	CLOSED	PMR	04/01/2015	N
	CHMAINGATE	0000014582	CLOSED	PMR	05/11/2015	N
	CHMAINGATE	0000014718	CLOSED	PMR	06/05/2015	N

Landfill Roads

Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N
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Equipment

Click the word 'Equipment' to see Work Order Numbers

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Appendix B:

Gas Monitoring Reports

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 6/16/15

Cal. Time: 7:00 AM

Calibration :

Technician: S. Parker

Test Instrument used: TVA1000

Surveyor P.T.

Cal. Gas Lot No: 20320

Cal Gas Used:

CH₄ 496 ppm

O2 Ambient

Barometric Pressure		Time
Start	30.09	7:00 AM
Stop	30.08	12:45 PM

90% response time in seconds:

1 5 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly cloudy

Wind Speed &

Direction (out of): 3 mph S - SE

Northing (UTM #)

Easting (10 T #)

Time

Comments

A graph on a grid with 10 horizontal and 10 vertical lines. A curve is plotted starting from the top-left corner, curving downwards and to the right, passing through the center of the grid, and ending at the bottom-right corner.

A graph on a grid with 10 horizontal lines and 4 vertical lines. A smooth, downward-sloping curve is drawn, starting near the top-left corner and ending near the bottom-right corner. The curve passes through the intersection of the second vertical line from the left and the fifth horizontal line from the top.

A graph on a grid showing a decreasing curve. The curve starts at approximately (0, 1.5) and ends at approximately (1.5, 0). It is concave up, passing through the point (0.5, 1) and (1, 0.5).

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 6/17/15

Cal. Time: 1215pm

Technician: W. Arkov

Surveyor P.S.

Calibration :

Test Instrument used: TVA 1000

Cal. Gas Lot No: 20328

Cal Gas Used:

CH₄ 496 ppm

O2 Ambient

Barometric Pressure	Time
Start 30.09	12:50pm
Stop 30.083	4:20pm

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 3 mph, SW

Northing (UTM #)

Easting (10 T #)

Time

Comments

A graph on a grid with 10 horizontal and 10 vertical lines. A curve starts at the top left corner (0, 10), decreases rapidly at first, then more gradually, passing through the center point (5, 5), and continues to decrease towards the bottom right corner (10, 0). The curve is concave up.

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 6/18/15

Cal. Time: 6:00 AM

Technician: J. Parke

Surveyor P.S.

Calibration :

Test Instrument used: TV4 100

Cal. Gas Lot No: 20328

Cal Gas Used:

CH₄ 496 ppm

O2 Ambient

Barometric Pressure		Time
Start	30.00	6:00 AM
Stop	30.00	12:00 PM

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: mostly cloudy

Wind Speed &

Direction (out of): 2 mph N, NE

Northing (UTM #)

Easting (10 T #)

Time

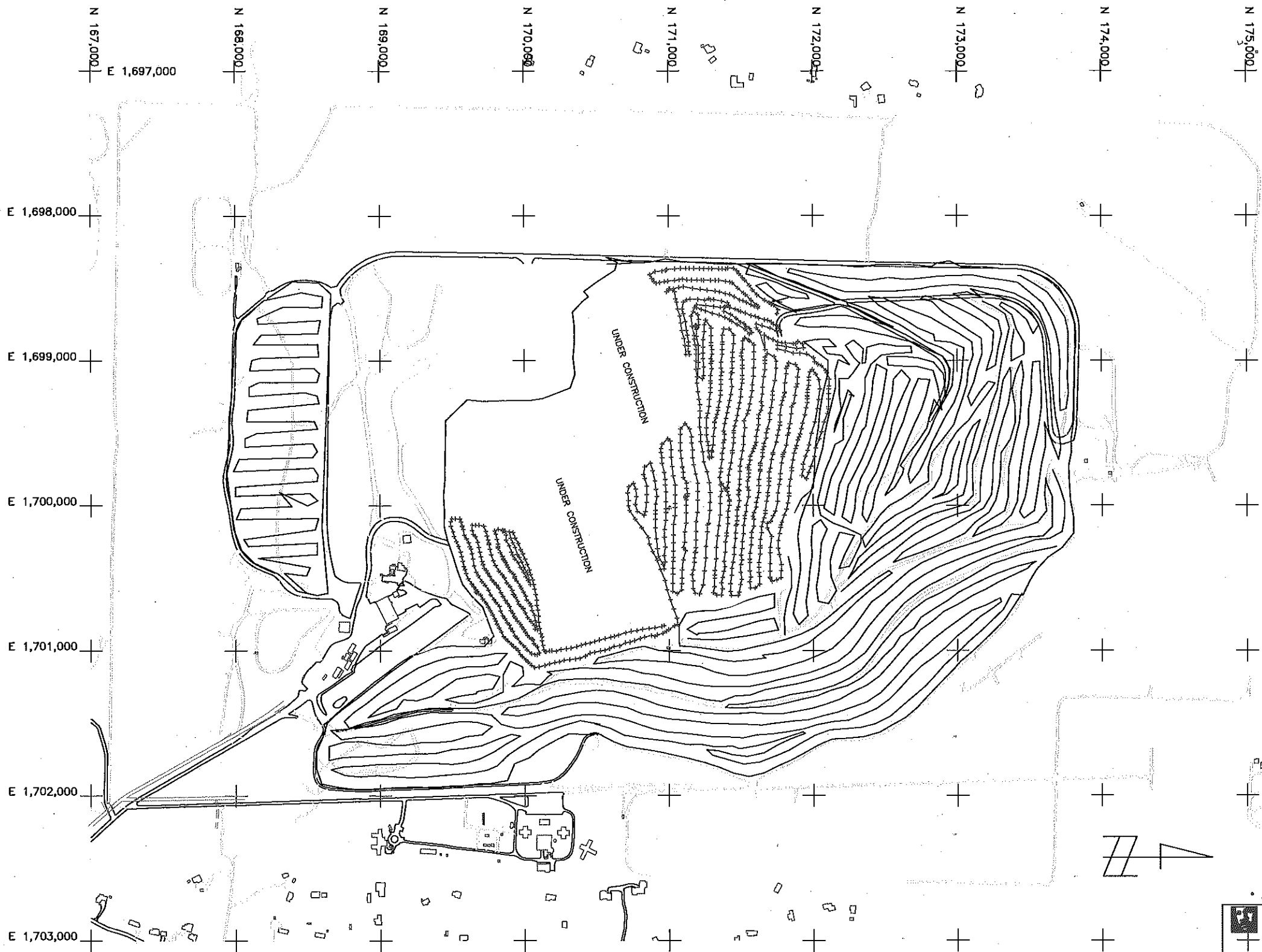
Comments

[illegible]

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Cedar Hills Regional Landfill
Quarterly Surface Emission Monitoring
Plot of GPS Generated Track Lines

JUNE 2015
Scale 1"=800'



KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS Christie True, Director SOLID WASTE DIVISION CEDAR HILLS QUARTERLY GAS EMISSIONS MONITORING		
APPROVED	DATE XX-XX-XX	
RECOMMENDED	DATE	
DESIGNED PJM	DRAWN PJM	6-2015
PROJECT NO.	SURVEY NO.	SHEET 1 OF 1

DATE	REVISION	BY

KING COUNTY SOLID WASTE
201 S JACKSON ST., SUITE 701
SEATTLE, WA 98104-3685

KING COUNTY SOLID WASTE
201 S JACKSON ST., SUITE 701
SEATTLE, WA 98104-3685

CEDAR HILLS REGIONAL LANDFILL
SOLID WASTE DIVISION
DATE OF MONITORING: 6-17-15

KING COUNTY SOLID WASTE
201 S JACKSON ST., SUITE 701
SEATTLE, WA 98104-3685

RECOMMENDED BY
DATE
SHEET 1 OF 1

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WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CEDAR HILLS License: na

Location: 20

Color:

Year: 2006

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014647

Date In: 06/02/2015 11:15

Date Promised: 06/03/2015 11:15

Date Out: 00:00

WO Status: A Last WO#: 0000014580

WO Priority: Last WO Date: 04/30/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

Cedar Hills

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/07/2015	Annual Inspection
Q	0 - MONTHS	06/06/2015	Quarterly Inspection
S	0 - MONTHS	07/01/2015	Scheduled Inspection
X	0 - MONTHS	06/10/2015	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMQ BS	PM Service PMQ per list Billable Scheduled, Target	0	763		0.00000
PMQ BS	PM Service PMQ per list Billable Scheduled, Target	0	762		0.00000

NOTES

Work Order Task List

Repair Code: PMQ BS

Equipment: CEDAR HILLS

Work Order: 0000014647

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Ck liner integrity- Serpentine walk	✓				
	1	Gas- Ck liner integrity- Serpentine walk					

6-16-15 - 10 hrs
6-17-15 - 10
6-18-15 - 10
6-19-15 - 7

6-22-15 20 hrs
6-24-15 5 hrs

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WO Company: Gas King County Landfill Gas
 WO Department: 7572 Waste Water, LF Gas
 WO Shop: Gas Landfill Gas

Equipment: CHAREA5 License: na

Location: 20 Color:
 Year: 2006 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZG5: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014452

Date In: 03/30/2015 12:31

Date Promised: 03/31/2015 12:31

Date Out: 00:00

WO Status: A Last WO#: 0000014317

WO Priority: Last WO Date: 03/02/2015

Track DownTime: Y Operator: WG

Tire Size 1: GVW: D
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 5
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	04/10/2015	Gas System
T	0 - MONTHS	04/10/2015	Stormwater
V	0 - MONTHS	04/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	761 <i>PMG</i>	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	761 <i>PMT</i>	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	761 <i>PMV</i>	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies					

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies					

DATE: 4-1-18

WO Company: Gas King County Landfill Gas
 WO Department: 7572 Waste Water, LF Gas
 WO Shop: Gas Landfill Gas

Equipment: CHAREA5 License: na

Location: 20 Color:
 Year: 2006 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZG5: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014593

Date In: 04/30/2015 09:56

Date Promised: 05/01/2015 09:56

Date Out: 00:00

WO Status: A Last WO#: 0000014452

WO Priority: Last WO Date: 03/30/2015

Track DownTime: Y Operator: WG

Tire Size 1:	GVW:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572:Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000	CH Area 5	
Fuel Cap2: 0.000		

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	05/10/2015	Gas System
T	0 - MONTHS	05/10/2015	Stormwater
V	0 - MONTHS	05/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies	✓				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies	✓				

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies	✓				

DATE: 5-11-15

WO Company: Gas King County Landfill Gas
 WO Department: 7572 Waste Water, LF Gas
 WO Shop: Gas Landfill Gas

Equipment: CHAREA5 License: na

Location: 20 Color:
 Year: 2006 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014729

Date In: 06/03/2015 12:01

Date Promised: 06/04/2015 12:01

Date Out: 00:00

WO Status: A Last WO#: 0000014593

WO Priority: Last WO Date: 04/30/2015

Track DownTime: Y Operator: WG

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 5
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	06/10/2015	Gas System
T	0 - MONTHS	06/10/2015	Stormwater
V	0 - MONTHS	06/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	763	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	/				
Gas Visually inspect disposal system	/				
Gas Verify daily odor log is current	/				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	/				
Gas Visually inspect lagoons	/				
Gas Visually inspect catch basins	/				
Gas Visually inspect control structures	/				
Gas Visually inspect conveyance pipes	/				
Gas Note any deficiencies					

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	/				
Gas Visually inspect refuse	/				
Gas Visually inspect cover	/				
Gas Visually inspect erosion	/				
Gas Note any deficiencies					

DATE: 6/5/15

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA6 License: na

Location: 20

Color:

Year: 2006

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014453

Date In: 03/30/2015 12:32

Date Promised: 03/31/2015 12:32

Date Out: 00:00

WO Status: A Last WO#: 0000014427

WO Priority: Last WO Date: 03/26/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 6

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	04/10/2015	Gas System
S	0 - MONTHS	04/28/2015	Scheduled Inspection
T	0 - MONTHS	04/10/2015	Stormwater
V	0 - MONTHS	04/10/2015	Cover System
W	W - WEEKS	04/12/2015	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	761 <i>WBS</i>	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	761 <i>WBS</i>	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	761 <i>WBS</i>	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies					

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies					

DATE: 4-1-15

WO Company: Gas King County Landfill Gas
 WO Department: 7572 Waste Water, LF Gas
 WO Shop: Gas Landfill Gas

Equipment: CHAREA6 License: na

Location: 20 Color:
 Year: 2006 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZG5: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014594

Date In: 04/30/2015 09:57

Date Promised: 05/01/2015 09:57

Date Out: 00:00

WO Status: A Last WO#: 0000014568

WO Priority: Last WO Date: 04/30/2015

Track DownTime: Y Operator: WG

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Mills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 6
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	05/10/2015	Gas System
S	0 - MONTHS	05/28/2015	Scheduled Inspection
T	0 - MONTHS	05/10/2015	Stormwater
V	0 - MONTHS	05/10/2015	Cover System
W	W - WEEKS	05/10/2015	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies	✓				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies	✓				

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies	✓				

DATE: 5-11-15

WO Company: Gas King County Landfill Gas
 WO Department: 7572 Waste Water, LF Gas
 WO Shop: Gas Landfill Gas

Equipment: CHAREA6 License: na

Location: 20 Color:
 Year: 2006 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZG5: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014730

Date In: 06/03/2015 12:02

Date Promised: 06/04/2015 12:02

Date Out: 00:00

WO Status: A Last WO#: 0000014704

WO Priority: Last WO Date: 06/03/2015

Track DownTime: Y Operator: WG

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 6
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	06/10/2015	Gas System
S	0 - MONTHS	06/28/2015	Scheduled Inspection
T	0 - MONTHS	06/10/2015	Stormwater
V	0 - MONTHS	06/10/2015	Cover System
W	W - WEEKS	06/07/2015	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MIO	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	763	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies					

PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies					

DATE: 6/5/15

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA5TD License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY

**WO#: 0000014398**

Date In: 03/26/2015 12:37

Date Promised: 03/27/2015 12:37

Date Out: 00:00

WO Status: A Last WO#: 0000014266

WO Priority: Last WO Date: 03/02/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 5

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	04/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV 85

Equipment: CHAREA5TD

Work Order: 0000014398

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
4/21	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

35m

Work Order Report - WO# 0000014542

4/30/2015 8:54:31 AM

WO Company: Gas King County Landfill Gas
WO Department: 7572 Waste Water, LF Gas
WO Shop: Gas Landfill Gas

Equipment: CHAREASTD License: na

Location: 20 Color:
Year: 2010 Serial: na
Make: UD Engine:
Model: UD
Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014542

Date In: 04/30/2015 08:54

Date Promised: 05/01/2015 08:54

Date Out: 00:00

WO Status: A Last WO#: 0000014398

WO Priority: Last WO Date: 03/26/2015

Track DownTime: Y Operator: WG

Tire Size 1:	GVW:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572:Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000	CH Area 5	
Fuel Cap2: 0.000		

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	05/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	750 RB	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV 85

Equipment: CHAREA5TD

Work Order: 0000014542

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

1 hr

5/19/15

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA5TD License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014677

Date In: 06/03/2015 10:03

Date Promised: 06/04/2015 10:03

Date Out: 00:00

WO Status: A Last WO#:0000014542

WO Priority: Last WO Date: 04/30/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 5

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	06/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	761	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV 8S

Equipment: CHAREA5TD

Work Order: 0000014677

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

6-22-15

/HK

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA6TD License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY

**WO#: 0000014430**

Date In: 03/26/2015 14:52

Date Promised: 03/27/2015 14:52

Date Out: 00:00

WO Status: A Last WO#: 0000014295

WO Priority: Last WO Date: 03/02/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 6

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	04/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV BS

Equipment: CHAREA6TD

Work Order: 0000014430

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
4-29	1	Gas- Visually inspect Header	✓				
	2	Gas- Ck for damage @ flare station inlet	✓				
	3	Gas- Ck collection field pipe integrity	✓				
	4	Gas- Ck collection field pipe alignment	✓				
	5	Gas- Ck for damage @ possible stress pts	✓				
	6	Gas- Ck for damage at vertical pipes	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Ck for gas leaks with TVA 1000					
	9	Gas- Ck for settlement/ponding	✓				
	10	Gas- Ck surface water conveyance system	✓				
	11	Gas- Ck and open vault covers	✓				
	12	Gas- Exercise field and header valves	✓				
	13	Gas- Ck flex hoses and connections	✓				
	14	Gas- Ck for erosion	✓				
	15	Gas- Ck for vegetation	✓				
	16	Gas- Ck cover system	✓				
	17	Gas- Ck for refuse/litter	✓				
	18	Gas- Note any deficiencies	✓				

1 hr

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA6TD License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014571

Date In: 04/30/2015 09:24

Date Promised: 05/01/2015 09:24

Date Out: 00:00

WO Status: A Last WO#: 0000014430

WO Priority: Last WO Date: 03/26/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 6

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	04/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PHV BS

Equipment: CHAREA6TD

Work Order: 0000014571

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
5/7	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

40m

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: CHAREA6TD License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



WO#: 0000014707

Date In: 06/03/2015 10:35

Date Promised: 06/04/2015 10:35

Date Out: 00:00

WO Status: A Last WO#: 0000014571

WO Priority: Last WO Date: 04/30/2015

Track DownTime: Y Operator: WG

Tire Size 1:

GVW: 0

Tire Size 2:

EAC: 24

Transmission:

Department: 7572:Waste Water, LF Gas

Fuel Type1:

Company: Gas King County Landfill Gas

Fuel Type2:

Site: 20:20- Cedar Hills

Fuel Type3:

Monitor Group:

Oil Capacity: 0.000

Comments:

Fuel Cap1: 0.000

CH Area 6

Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	06/10/2015	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	750 PB	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV 85

Equipment: CHAREA6TD

Work Order: 0000014707

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

6/24/15

45 min

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