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
206.296.6519 Fax 206.296.0192

Memorandum

To: Tom Theno
King County Solid Waste Division

From: Sevin Bilir
King County Water & Land Resources Division

Re: **Potentiometric Groundwater Surface Mapping & Groundwater Velocity Calculations**
Third Quarter 2012 Results
Cedar Hills Landfill, King County, Washington
Project No. 1033379 – Task 02.14.137.20

Date: October 23, 2012

King County Water & Land Resources Division (KCWLRD) submits this letter report on groundwater conditions during the third quarter of 2012 for the Cedar Hills Landfill (landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (KCWLRD, 2011). King County Solid Waste Division (KCSWD) personnel measured groundwater elevations at the landfill on July 2, 2012. These measurements were received by KCWLRD on September 11, 2012 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 2011 monitoring event.

Groundwater Elevation Data

KCSWD attempted groundwater level measurements at 44 monitoring wells during the third quarter of 2012. 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. Well MW-77 was not accessible at the time of measurement. Wells with screened intervals within ten feet of the water table were used for potentiometric surface mapping purposes. A total of 24 wells with water levels within ten feet of the top of screen were selected.

Figure 1 shows well locations, groundwater elevations at the 24 selected wells, groundwater potentiometric surface contours, and interpreted groundwater flow direction in the regional aquifer for the July 2, 2012 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 July 2, 2012 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-northeast and northeast.

Groundwater Parameters

Horizontal groundwater velocity was calculated using the following formula:

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 third quarter 2012 data. The hydraulic gradient was greatest under the southern portion of the landfill and smallest under the northern portion. On July 2, 2012, average horizontal groundwater velocity within the regional aquifer ranged from 0.011 feet per day (ft/d) under the southern portion of the landfill to 1.47 ft/d under the central portion of the landfill.

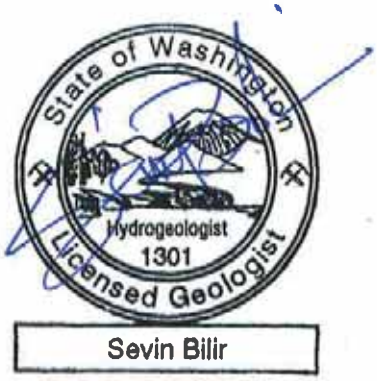
References

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 (KCWLRD). 2012. *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations*. Unpublished.

Thank you for the opportunity to provide hydrogeologic services to the KCSWD. Please contact me if you have any questions.

Sincerely,



Sevin Bilir, WA LHG
Environmental Scientist III
King County Water & Land Resources Division

Attachments

Table 1: Groundwater Elevations - Third Quarter 2012
Table 2: Groundwater Parameters - Third Quarter 2012
Figure 1: Groundwater Potentiometric Surface Map - Third Quarter 2012 – Regional Aquifer

Table 1: Groundwater Elevations – Third Quarter 2012

Cedar Hills Landfill

King County, Washington

							July/2/2012	
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)	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	224.85	342.30
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.47	331.08
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.56	292.72
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	221.87	294.56
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.72	314.35
	MW-69	1698061.86	172400.20	653.69	293.57	279.97	357.53	296.16
	MW-70	1698412.97	168699.89	530.57	322.75	309.05	205.10	325.47
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	362.73	309.14
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	190.98	294.72
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	240.40	290.86
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	135.04	356.67
	MW-78	1698881.94	169027.58	537.35	322.34	309.84	212.50	324.85
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	184.73	308.93
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	120.86	353.99
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	142.85	353.96
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	236.48	294.32
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	246.22	285.54
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	249.08	286.96
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	248.70	288.61
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	227.02	286.66
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	139.98	355.53
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.87	319.67
	MW-100	1700791.72	169610.46	620.32	319.06	309.06	298.06	322.26
	MW-106	1702536.99	173461.69	475.47	280.04	270.04	190.80	284.67
Wells with water levels greater than 10 feet above the top of screen	MW-21	1697901.86	173876.38	420.66	263.22	255.22	125.55	295.11
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	232.71	284.38
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.64	331.35
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	263.35	283.71
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	278.08	302.35
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	124.70	355.63
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	100.37	356.27
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	148.52	330.75
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	123.03	334.10
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	208.47	337.36
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	245.94	286.46
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	239.80	290.61
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	231.99	280.83
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	221.60	280.62
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	247.19	284.83
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	300.06	332.09
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.90	292.74
	NPW-1	1701906.96	171138.99	646.33	299.87	284.87	333.83	312.50
	NPW-3	1701922.88	170663.28	645.81	284.87	276.87	331.90	313.91
Not used	MW-77	1700007.63	168999.71	552.67	320.47	310.97	NA	NA

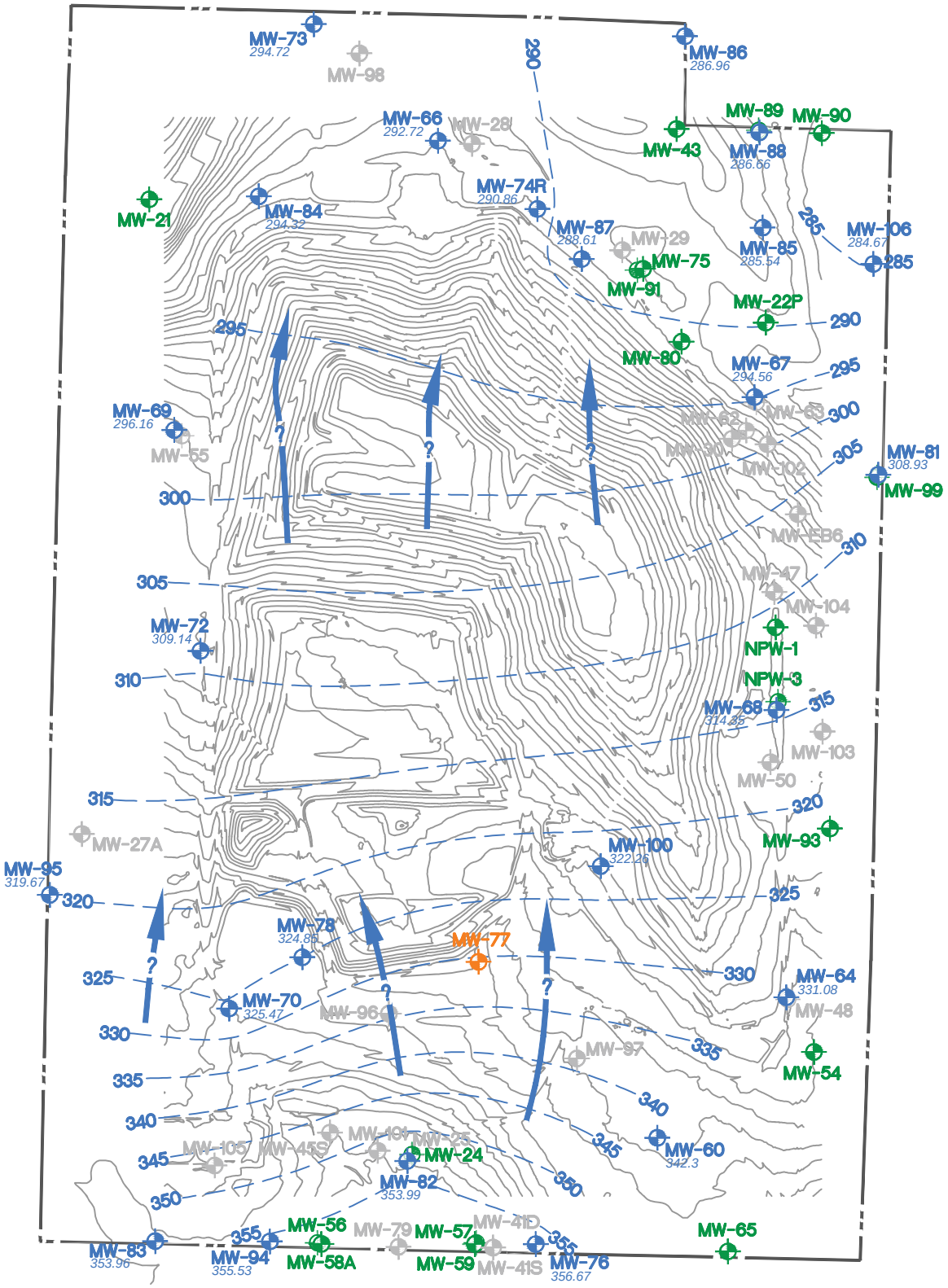
Notes

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.
4. NM, not measured due to broken meter
5. NI, no information

Table 2: Groundwater Parameters – Third Quarter 2012
Cedar Hills Landfill
King County, Washington

Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity (*K*)			Horizontal Hydraulic Gradient	Effective Porosity (n_{eff})	Horizontal Groundwater Velocity (*v*)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/d)	(ft/ft)		(ft/d)	
Northern	Minimum	2.10E-03	6	0.006	24%	0.147	N, NNE, NE
	Maximum	4.20E-02	120	0.006	24%	2.94	
	Mean	2.10E-02	60	0.006	24%	1.47	
Central	Minimum	2.10E-03	6	0.008	24%	0.20	NNW, N
	Maximum	4.20E-02	120	0.008	24%	4.1	
	Mean	2.10E-02	60	0.008	24%	2.0	
Southern	Minimum	6.40E-06	0.018	0.015	26%	0.0011	NNE, NE
	Maximum	6.40E-04	1.8	0.015	26%	0.11	
	Mean	6.40E-05	0.18	0.015	26%	0.011	

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



Legend

MW-X XXX.XX — Well completed in Regional Aquifer within 10 feet of the water table

MW-X — Wells completed in Regional Aquifer more than 10 ft below water table

MW-X XXX.XX — Wells not accessible

MW-X — Wells screened in discontinuous Perched Zones

300 — Regional Aquifer Groundwater Elevation Contour *(feet MSL)*.

? — Inferred Horizontal Groundwater Flow Path

N

0 1000 2000

Feet

Notes:

1. Groundwater July 2, 2012
2. Only wells completed in the Regional Aquifer within 10 feet of the water table were used for contouring.

King County

Groundwater Potentiometric Surface Map
Third Quarter 2012 - Regional Aquifer
Cedar Hills Landfill
King County, Washington

DATE: September 2012	PROJECT NO. 1033379
DESIGNED BY: SB	
DRAWN BY: LMT	FIGURE NO. 1
REVISED BY: SB	

CH_3Q2012.dwg

APPENDIX B

Field and Analytical Test Results

Groundwater Analytical Data

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-21	7/2/2012	420.66	295.11	295.11	
MW-21	7/31/2012	420.66	295.6	295.6	
MW-22	7/2/2012	517.09	284.38	284.38	
MW-24	7/2/2012	475.99	331.35	331.35	
MW-24	7/18/2012	475.99	331.15	331.15	
MW-25	7/2/2012	474.41	464.34	464.34	
MW-27A	7/2/2012	584.23	530.28	530.28	
MW-27A	7/13/2012	584.23	530.18	530.18	
MW-28	7/2/2012	527.75	501.79	501.79	
MW-28	7/16/2012	527.75	499.7	499.7	
MW-29	7/2/2012	532.92	520.25	520.25	
MW-29	7/16/2012	532.92	519.62	519.62	
MW-30A	7/2/2012	568.43	540.31	540.31	
MW-30A	7/3/2012	568.43	540.33	540.33	
MW-41D	7/2/2012	462.32	436.27	436.27	
MW-41S	7/2/2012	462.44	456.79	456.79	
MW-43	7/2/2012	547.06	283.71	283.71	
MW-43	7/3/2012	544.67	281.32	281.32	
MW-47	7/2/2012	634.6	618.13	618.13	
MW-47	7/17/2012	634.6	616.84	616.84	
MW-48	7/2/2012	594.49	549.57	549.57	
MW-50	7/2/2012	637.02	607.02	607.02	
MW-54	7/2/2012	580.43	302.35	302.35	
MW-55	7/2/2012	652.29	623.54	623.54	
MW-55	7/18/2012	652.29	622.84	622.84	
MW-56	7/2/2012	480.33	355.63	355.63	
MW-56	7/13/2012	480.33	355.33	355.33	
MW-57	7/2/2012	456.64	356.27	356.27	
MW-57	7/9/2012	456.64	356.02	356.02	
MW-58A	7/2/2012	479.27	330.75	330.75	
MW-58A	7/10/2012	479.27	330.38	330.38	
MW-59	7/2/2012	457.13	334.1	334.1	
MW-59	7/3/2012	457.13	334.25	334.25	
MW-60	7/2/2012	567.15	342.3	342.3	
MW-60	7/25/2012	567.15	341.78	341.78	
MW-62	7/2/2012	556.21	504.35	504.35	
MW-63	7/2/2012	515.88	499.47	499.47	
MW-64	7/2/2012	596.55	331.08	331.08	
MW-64	7/19/2012	596.55	331.06	331.06	
MW-65	7/2/2012	545.83	337.36	337.36	
MW-65	7/17/2012	545.83	337.42	337.42	
MW-66	7/2/2012	531.28	292.72	292.72	
MW-66	7/18/2012	531.28	292.55	292.55	
MW-67	7/2/2012	516.43	294.56	294.56	
MW-67	7/24/2012	516.43	295.02	295.02	

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-68	7/2/2012	647.07	314.35	314.35	
MW-68	7/25/2012	647.07	313.15	313.15	
MW-69	7/2/2012	653.69	296.16	296.16	
MW-70	7/2/2012	530.57	325.47	325.47	
MW-70	7/13/2012	530.57	325.42	325.42	
MW-72	7/2/2012	671.87	309.14	309.14	
MW-72	7/26/2012	671.87	309.31	309.31	
MW-73	7/2/2012	485.7	294.72	294.72	
MW-73	7/23/2012	485.7	294.53	294.53	
MW-74	7/2/2012	531.26	290.86	290.86	
MW-74	7/23/2012	531.26	290.63	290.63	
MW-74	8/17/2012	531.26	290.84	290.84	
MW-74	9/21/2012	531.26	290.6	290.6	
MW-75	7/2/2012	532.4	286.46	286.46	
MW-75	7/23/2012	532.4	285.65	285.65	
MW-75	8/17/2012	532.4	286.22	286.22	
MW-75	9/21/2012	532.4	285.96	285.96	
MW-76	7/2/2012	491.71	356.67	356.67	
MW-76	7/17/2012	491.71	356.11	356.11	
MW-77	8/30/2012	552.67	325.87	325.87	
MW-78	7/2/2012	537.35	324.85	324.85	
MW-78	8/30/2012	537.35	324.72	324.72	
MW-79	7/2/2012	459.17	421.56	421.56	
MW-80	7/2/2012	530.41	290.61	290.61	
MW-80	7/16/2012	530.41	290.69	290.69	
MW-81	7/2/2012	493.66	308.93	308.93	
MW-81	7/17/2012	493.66	309.02	309.02	
MW-82	7/2/2012	474.85	353.99	353.99	
MW-82	7/3/2012	474.85	353.95	353.95	
MW-83	7/2/2012	496.81	353.96	353.96	
MW-83	7/17/2012	496.81	353.81	353.81	
MW-84	7/2/2012	530.8	294.32	294.32	
MW-84	7/18/2012	530.8	294.31	294.31	
MW-85	7/2/2012	531.76	285.54	285.54	
MW-85	7/27/2012	531.76	285.33	285.33	
MW-86	7/2/2012	536.04	286.96	286.96	
MW-86	7/16/2012	536.04	286.92	286.92	
MW-87	7/2/2012	537.31	288.61	288.61	
MW-87	7/20/2012	537.31	288.53	288.53	
MW-87	8/20/2012	537.31	288.38	288.38	
MW-87	9/21/2012	537.31	288.23	288.23	
MW-88	7/2/2012	513.68	286.66	286.66	
MW-88	7/25/2012	513.68	286.6	286.6	
MW-89	7/2/2012	512.82	280.83	280.83	
MW-89	7/13/2012	512.82	280.75	280.75	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-90	7/2/2012	502.22	280.62	280.62	
MW-90	7/16/2012	502.22	280.29	280.29	
MW-91	7/2/2012	532.02	284.83	284.83	
MW-91	7/16/2012	532.02	284.77	284.77	
MW-93	7/2/2012	632.15	332.09	332.09	
MW-93	7/19/2012	632.15	323.05	323.05	
MW-94	7/2/2012	495.51	355.53	355.53	
MW-94	7/19/2012	495.51	355.09	355.09	
MW-95	7/2/2012	571.54	319.67	319.67	
MW-95	7/27/2012	571.54	319.23	319.23	
MW-96	7/2/2012	547.74	448.52	448.52	
MW-97	7/2/2012	564.54	451.64	451.64	
MW-98	7/2/2012	503.73	487.23	487.23	
MW-99	7/2/2012	493.64	292.74	292.74	
MW-99	7/20/2012	493.64	292.61	292.61	
MW-99	8/20/2012	493.64	292.37	292.37	
MW-99	9/21/2012	493.64	292.17	292.17	
MW-100	7/2/2012	620.32	322.26	322.26	
MW-100	7/27/2012	620.32	322.35	322.35	
MW-101	7/2/2012	474.72	441.38	441.38	
MW-101	7/26/2012	474.72	440.47	440.47	
MW-102	7/2/2012	552.48	503.51	503.51	
MW-103	7/2/2012	639.08	627.47	627.47	
MW-104	7/2/2012	629.68	606.43	606.43	
MW-105	7/2/2012	521.23	501.41	501.41	
MW-106	7/2/2012	475.47	284.67	284.67	
MW-EB6	7/2/2012	589.61	561.51	561.51	
MW-EB6	7/17/2012	561.09	589.61	589.61	
WS-NPW-1	7/2/2012	646.33	312.5	312.5	
WS-NPW-3	7/2/2012	645.81	313.91	313.91	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Field Parameters
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (°C)	Purge Volume (gal)
MW-21	7/31/2012	W21-120731-	7.6	110	9.2	10.5
MW-24	7/18/2012	W24-120718-	7.07	185	9.9	9
MW-27A	7/13/2012	W27A120713-	7.85	140	9.7	6.9
MW-28	7/16/2012	W28-120716-	5.55	90	10	3.5
MW-29	7/16/2012	W29-120716-	5.93	74	10.4	15
MW-30A	7/3/2012	W30A120703-	6.14	265	11.8	3.5
MW-43	7/3/2012	W43-120703-	7.21	140	9.5	13
MW-47	7/17/2012	W47-120717-	6.96	720	10.5	25.5
MW-55	7/18/2012	W55-120718-	7.76	155	11.5	9.3
MW-56	7/13/2012	W56-120713-	7.1	155	10.3	21
MW-57	7/9/2012	W57-120709-	6.62	190	9.9	21.5
MW-57	7/9/2012	W57-120709D	6.62	190	9.9	21.5
MW-58A	7/10/2012	W58A120710-	7.35	150	9.5	34.5
MW-59	7/3/2012	W59-120703-	7.08	185	10.1	28.5
MW-60	7/25/2012	W60-120725-	7.05	200	10.6	12.6
MW-64	7/19/2012	W64-120719-	7.02	210	14.3	8.5
MW-65	7/17/2012	W65-120717-	7.04	175	10.6	22.4
MW-66	7/18/2012	W66-120718-	6.95	220	10.4	15.5
MW-67	7/24/2012	W67-120724-	6.94	250	10.4	11.5
MW-68	7/25/2012	W68-120725-	6.94	220	10.5	16
MW-70	7/13/2012	W70-120713-	7.3	160	10	21
MW-72	7/26/2012	W72-120726-	7.13	230	10.8	12
MW-73	7/23/2012	W73-120723-	7.18	150	9.7	11.2
MW-74	7/23/2012	W74R120723-	7.17	360	10	7
MW-74	8/17/2012	W74R120817-	7.11	350	10.5	5.8
MW-74	9/21/2012	W74R120921-	7.15	360	10.3	7
MW-75	7/23/2012	W75-120723-	7.01	230	9.3	11.5
MW-75	8/17/2012	W75-120817-	6.94	240	10	11.5
MW-75	9/21/2012	W75-120921-	7.02	230	9.5	11.2
MW-76	7/17/2012	W76-120717-	6.43	190	10.3	8
MW-77	8/30/2012	W77-120830-	6.86	190	10.8	12.5
MW-78	8/30/2012	W78-120830-	6.35	140	10.5	9.2
MW-78	8/30/2012	W78-120830D	6.35	140	10.5	9.2
MW-80	7/16/2012	W80-120716-	7.25	280	10	7.8
MW-81	7/17/2012	W81-120717-	7.07	110	10.3	4.5
MW-82	7/3/2012	W82-120703-	6.88	265	9.9	7
MW-83	7/17/2012	W83-120717-	6.89	290	11.4	5
MW-83	7/17/2012	W83-120717D	6.89	290	11.4	5
MW-84	7/18/2012	W84-120718-	6.94	160	10.3	6
MW-85	7/27/2012	W85-120727-	7.06	200	9.6	7.2
MW-85	7/27/2012	W85-120727D	7.06	200	9.6	7.2
MW-86	7/16/2012	W86-120716-	7	180	9.7	7.8
MW-87	7/20/2012	W87-120720-	6.87	430	11.8	8
MW-87	8/20/2012	W87-120820-	6.98	425	11.4	6.3
MW-87	9/21/2012	W87-120921-	6.91	410	11.2	6.2

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Field Parameters
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (°C)	Purge Volume (gal)
MW-88	7/25/2012	W88-120725-	6.95	100	9.8	7
MW-89	7/13/2012	W89-120713-	7.3	200	9.9	8.5
MW-90	7/16/2012	W90-120716-	7.21	160	9.3	9.5
MW-91	7/16/2012	W91-120716-	7.05	280	10	10.5
MW-93	7/19/2012	W93-120719-	7.22	365	12.2	9.2
MW-94	7/19/2012	W94-120719-	6.91	290	10.1	5.6
MW-95	7/27/2012	W95-120727-	7.3	170	9.6	7.2
MW-99	7/20/2012	W99-120720-	7.84	135	11	10
MW-99	8/20/2012	W99-120820-	7.96	135	10.8	16.5
MW-99	9/21/2012	W99-120921-	7.91	130	10.5	9.5
MW-100	7/27/2012	W100120727-	6.8	295	12	8.8
MW-101	7/26/2012	W101120726-	7.17	655	13.2	9.2
MW-EB6	7/18/2012	WB6-120718-	5.98	180	11.3	0.6
WS-NPW	7/9/2012	WNPW120709-	6.99	250	11.7	
EQUIPMENT BLANK	7/17/2012	WU1M120717E	5.14	9.8	20.4	
EQUIPMENT BLANK	7/17/2012	WU1S120717E	5.14	9.8	20.4	
FIELD BLANK	7/18/2012	W66-120718F	5.53	102	18.8	
FIELD BLANK	7/27/2012	W100120727F	5.92	3.8	23.4	
FIELD BLANK	8/17/2012	W74R120817F	5.8	4.1	22.6	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Conventionals Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	Alkalinity, Total ($CaCO_3$) (mg/L)	Ammonia, (NH_3) (mg/L)	Chloride (mg/L)	Nitrate-Nitrogen, (NO_3 as N) (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO_4) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-21	7/31/2012	W21-120731-	52.7	< 0.01 U	2.83	< 0.01 U	123	5.08	76.2	< 1 U	85.1	5.5
MW-24	7/18/2012	W24-120718-	64.4	0.0376	3.42	< 0.01 U	167	16.2	103	< 1 U	118	6
MW-27A	7/13/2012	W27A120713-	79.6	0.182	5.66	0.0892	197	11.7	132	1.48	137	< 1 U
MW-28	7/16/2012	W28-120716-	28.4	< 0.01 U	3.17	0.283	103	13.7	70	1.17	71	< 1 U
MW-29	7/16/2012	W29-120716-	23.8	< 0.01 U	2.74	2.06	78.1	1.78	65	< 1 U	72	3.89
MW-30A	7/3/2012	W30A120703-	182	< 0.01 U	1.88	0.359	353	8.84	223	3.67	224	1.2
MW-43	7/3/2012	W43-120703-	69.9	0.0232	3.37	< 0.01 U	172	13.8	118	1 T	119	< 1 U
MW-47	7/17/2012	W47-120717-	663	0.0721	7.2	< 0.01 U	1070	7.27	663	5.12	683	16.4
MW-55	7/18/2012	W55-120718-	61.4	0.0548	1.81	0.013 T	148	11.8	103 J	1.02	121 J	99.4 J
MW-56	7/13/2012	W56-120713-	52.7	< 0.01 U	3.92	0.329	156	18.6	90	1.27	97	< 1 U
MW-57	7/9/2012	W57-120709-	87	0.0334	5.32	< 0.01 U	218	18.1	169	1.54	174	3.3
MW-57	7/9/2012	W57-120709D	85	0.0274	5.58	< 0.01 U	216	18.2	168	1.47	172	1.4
MW-58A	7/10/2012	W58A120710-	75.7	0.068	3.71	< 0.01 U	188	15.7	126	1.09	127	< 1 U
MW-59	7/3/2012	W59-120703-	61.5	0.013 T	3.91	< 0.01 U	170	18	109	1.28	111	5.4
MW-60	7/25/2012	W60-120725-	85.5	< 0.01 U	2.51	1.25	193	7.39	124	< 1 U	127	< 1 U
MW-64	7/19/2012	W64-120719-	90.3	0.0269	2.99	0.025 T	246	32.1	147	< 1 U	153	4.2
MW-65	7/17/2012	W65-120717-	53.1	< 0.01 U	4.24	< 0.01 U	151	17.4	96	< 1 U	103	7.8
MW-66	7/18/2012	W66-120718-	119	< 0.01 U	7.35	0.646	280	14.6	160	< 1 U	163	< 1 U
MW-67	7/24/2012	W67-120724-	117	< 0.01 U	4.92	0.522	315	38.8	196	1.11	213	1.03
MW-68	7/25/2012	W68-120725-	133	0.016 T	2.87	< 0.01 U	290	18.7	168	1.26	188	17.7
MW-70	7/13/2012	W70-120713-	80.3	< 0.01 U	3.73	0.033 T	200	17.1	115	2.44	124	< 1 U
MW-72	7/26/2012	W72-120726-	114	0.0201	3.71	< 0.01 U	293	33	182	1.6	194	4.8
MW-73	7/23/2012	W73-120723-	53.8	< 0.01 U	3.11	1.74	145	9.15	98.8	< 1 U	99.7	< 1 U
MW-74	7/23/2012	W74R120723-	207	< 0.01 U	23.2	0.487	486	22.8	286	1.3	303	< 1 U
MW-75	7/23/2012	W75-120723-	96.3	< 0.01 U	8.28	< 0.01 U	297	44.7	193	< 1 U	201	5
MW-76	7/17/2012	W76-120717-	56.4	< 0.01 U	11.3	0.376	183	14.5	120	1.68	121	< 1 U
MW-77	8/30/2012	W77-120830-	109	< 0.01 U	4.86	0.882	230	8.61	147	< 1 U	153	< 1 U
MW-78	8/30/2012	W78-120830-	69	< 0.01 U	4.68	0.931	159	7.94	124	1.7	127	< 1 U
MW-78	8/30/2012	W78-120830D	67.9	< 0.01 U	4.71	0.927	160	7.86	119	1.28	127	< 1 U
MW-80	7/16/2012	W80-120716-	88.5	< 0.01 U	4.89	< 0.01 U	274	44	179	< 1 U	188	4.1
MW-81	7/17/2012	W81-120717-	50.5	< 0.01 U	3.23	1.52	134	8.15	90	< 1 U	91	< 1 U
MW-82	7/3/2012	W82-120703-	122	< 0.01 U	6.4	0.619	288	17.7	181	1.55	185	< 1 U
MW-83	7/17/2012	W83-120717-	107	< 0.01 U	20.7	0.453	298	11.4	177	2.74	198	< 1 U
MW-83	7/17/2012	W83-120717D	108	< 0.01 U	21.1	0.45	301	11.4	203	2.63	200	< 1 U
MW-84	7/18/2012	W84-120718-	57.2	< 0.01 U	3.85	0.397	149	11.5	88	< 1 U	91	< 1 U
MW-85	7/27/2012	W85-120727-	93	< 0.01 U	7.14	0.122	264	31.3	170	< 1 U	178	< 1 U
MW-85	7/27/2012	W85-120727D	93.5	< 0.01 U	7.26	0.122	267	30.8	170	< 1 U	181	< 1 U
MW-86	7/16/2012	W86-120716-	64.8	< 0.01 U	4.05	0.384	173	16.4	102	< 1 U	105	2.1
MW-87	7/20/2012	W87-120720-	86.5	0.015 T	5.14	0.015 T	429	127	312	< 1 U	330	16.1
MW-88	7/25/2012	W88-120725-	52.3	< 0.01 U	2.43	0.548	125	6.78	83.3	< 1 U	82.1	< 1 U
MW-89	7/13/2012	W89-120713-	74.7	0.02 T	3.78	< 0.01 U	189	15.9	121	1.69	123	5.9
MW-90	7/16/2012	W90-120716-	68.8	0.015 T	3.84	< 0.01 U	198	25.5	126	< 1 U	134	3.4
MW-91	7/16/2012	W91-120716-	92.2	0.0288	7.3	0.018 T	269	40.2	176	2.03	457	227
MW-93	7/19/2012	W93-120719-	112	0.0667	2.76	0.015 T	373	77.6	250	< 1 U	259	< 1 U
MW-94	7/19/2012	W94-120719-	108	< 0.01 U	19.6	1.18	292	6.26	187	2.29	183	< 1 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater Conventionals Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	Alkalinity, Total ($CaCO_3$) (mg/L)	Ammonia, (NH_3) (mg/L)	Chloride (mg/L)	Nitrate-Nitrogen, (NO_3 as N) (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO_4) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-95	7/27/2012	W95-120727-	85	0.0317	5.05	< 0.01 U	211	15.6	131	< 1 U	141	< 1 U
MW-99	7/20/2012	W99-120720-	51.7	0.0637	3.16	0.026 T	125	7.69	84.1	< 1 U	82.8	< 1 U
MW-100	7/27/2012	W100120727-	132	< 0.01 U	2.36	< 0.01 U	293	19.7	169	< 1 U	186	8.6
MW-101	7/26/2012	W101120726-	389	0.016 T	4.42	< 0.01 U	680	5.01	414	7.8	435	< 1 U
MW-EB6	7/18/2012	WB6-120718-	75.2	2.95	1.16	0.031 T	206	25.2	149	6.02	631	396
WS-NPW	7/9/2012	WNPW120709-	154	0.017 T	4.46	< 0.01 U	325	19.6	201	1.98	211	< 1 U
EQUIPMENT BLA	7/17/2012	WU1M120717E		< 0.01 U								
EQUIPMENT BLA	7/17/2012	WU1H120717E		0.018 T								
EQUIPMENT BLA	7/17/2012	WU1S120717E		< 0.01 U								
FIELD BLANK	7/18/2012	W66-120718F	1.5 T	< 0.01 U	< 0.1 U	0.105	4.1 T	< 0.1 U	< 5 U	< 1 U	< 5 U	< 1 U
FIELD BLANK	7/27/2012	W100120727F	1.6 T	< 0.01 U	< 0.1 U	0.0792	4.3 T	< 0.1 U	< 5 U	< 1 U	< 5 U	< 1 U

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill ---Groundwater Metals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Antimony, dissolved (mg/L)	Arsenic, dissolved (mg/L)	Barium, dissolved (mg/L)	Beryllium, dissolved (mg/L)	Cadmium, dissolved (mg/L)	Calcium, dissolved (mg/L)	Chromium, dissolved (mg/L)	Cobalt, dissolved (mg/L)	Copper, dissolved (mg/L)	Iron, dissolved (mg/L)	Lead, dissolved (mg/L)	Magnesium, dissolved (mg/L)
MW-21	7/31/2012	W21-120731-	< 0.001 U	< 0.001 U	0.00282	< 0.001 U	< 0.002 U	10.2	< 0.005 U	< 0.003 DU	< 0.002 U	1.78	< 0.001 U	5.6
MW-24	7/18/2012	W24-120718-	< 0.001 U	< 0.001 U	0.00191	< 0.001 U	< 0.002 U	13.3	< 0.005 U	< 0.003 U	< 0.002 U	3.3	< 0.001 U	8.65
MW-27A	7/13/2012	W27A120713-	< 0.001 U	0.0156	0.00528	< 0.001 U	< 0.002 U	19.2	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	5.72
MW-28	7/16/2012	W28-120716-	< 0.001 U	< 0.001 U	0.00593	< 0.001 U	< 0.002 U	8.93	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	2.25
MW-29	7/16/2012	W29-120716-	< 0.001 U	< 0.001 U	0.00129	< 0.001 U	< 0.002 U	6.82	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	1.72
MW-30A	7/3/2012	W30A120703-	< 0.001 U	< 0.001 U	0.00557	< 0.001 U	< 0.002 U	26.9	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	15.5
MW-43	7/3/2012	W43-120703-	< 0.001 U	< 0.001 U	0.00626	< 0.001 U	< 0.002 U	12.1	< 0.005 U	< 0.003 U	< 0.002 U	0.94	< 0.001 U	8.91
MW-47	7/17/2012	W47-120717-	< 0.001 U	0.00114	0.0395	< 0.001 U	< 0.002 U	129 D	< 0.005 U	< 0.003 U	< 0.002 U	0.303	< 0.001 U	69.7 D
MW-55	7/18/2012	W55-120718-	< 0.001 U	< 0.001 U	0.00431	< 0.001 U	< 0.002 U	12	< 0.005 U	< 0.003 U	< 0.002 U	0.257	< 0.001 U	6.26
MW-56	7/13/2012	W56-120713-	< 0.001 U	< 0.001 U	0.00387	< 0.001 U	< 0.002 U	15.3	< 0.005 U	< 0.003 U	< 0.002 U	0.01 T	< 0.001 U	6.05
MW-57	7/9/2012	W57-120709-	< 0.001 U	< 0.001 U	0.00178	< 0.001 U	< 0.002 U	17.1	< 0.005 U	< 0.003 U	< 0.002 U	10	< 0.001 U	9.9
MW-57	7/9/2012	W57-120709D	< 0.001 U	< 0.001 U	0.00174	< 0.001 U	< 0.002 U	16.8	< 0.005 U	< 0.003 U	< 0.002 U	10.1	< 0.001 U	9.78
MW-58A	7/10/2012	W58A120710-	< 0.001 U	< 0.001 U	0.00442	< 0.001 U	< 0.002 U	16.4	< 0.005 U	< 0.003 U	< 0.002 U	1.04	< 0.001 U	9.01
MW-59	7/3/2012	W59-120703-	< 0.001 U	< 0.001 U	0.00304	< 0.001 U	< 0.002 U	13.1	< 0.005 U	< 0.003 U	< 0.002 U	4.25	< 0.001 U	8.3
MW-60	7/25/2012	W60-120725-	< 0.001 U	< 0.001 U	0.00295	< 0.001 U	< 0.002 U	17.3	< 0.005 U	< 0.003 U	< 0.002 U	0.018 T	< 0.001 U	8.43
MW-64	7/19/2012	W64-120719-	< 0.001 U	0.00156	0.0102	< 0.001 U	< 0.002 U	17.4	< 0.005 U	< 0.003 U	< 0.002 U	0.589	< 0.001 U	14.6
MW-65	7/17/2012	W65-120717-	< 0.001 U	< 0.001 U	0.00721	< 0.001 U	< 0.002 U	11.9	< 0.005 U	< 0.003 U	< 0.002 U	4.58	< 0.001 U	6.82
MW-66	7/18/2012	W66-120718-	< 0.001 U	< 0.001 U	0.00616	< 0.001 U	< 0.002 U	21.2	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	16.4
MW-67	7/24/2012	W67-120724-	< 0.001 U	< 0.001 U	0.00857	< 0.001 U	< 0.002 U	27.7	< 0.005 U	< 0.003 U	< 0.002 U	0.0823	< 0.001 U	16.5
MW-68	7/25/2012	W68-120725-	< 0.001 U	< 0.001 U	0.0116	< 0.001 U	< 0.002 U	26	< 0.005 U	< 0.003 U	< 0.002 U	0.994	< 0.001 U	15.1
MW-70	7/13/2012	W70-120713-	< 0.001 U	< 0.001 U	0.00183	< 0.001 U	< 0.002 U	16.8	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	10
MW-72	7/26/2012	W72-120726-	< 0.001 U	< 0.001 U	0.00983	< 0.001 U	< 0.002 U	25.2	< 0.005 U	< 0.003 U	< 0.002 U	2.15	< 0.001 U	15.6
MW-73	7/23/2012	W73-120723-	< 0.001 U	< 0.001 U	0.00253	< 0.001 U	< 0.002 U	11.9	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	6.22
MW-74	7/23/2012	W74R120723-	< 0.001 U	< 0.001 U	0.0108	< 0.001 U	< 0.002 U	39.6	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	30.6
MW-75	7/23/2012	W75-120723-	< 0.001 U	< 0.001 U	0.00891	< 0.001 U	< 0.002 U	21.7	< 0.005 U	< 0.003 U	< 0.002 U	1.64	< 0.001 U	16.9
MW-76	7/17/2012	W76-120717-	< 0.001 U	< 0.001 U	0.00293	< 0.001 U	< 0.002 U	15.5	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	6.73
MW-77	8/30/2012	W77-120830-	< 0.001 U	< 0.001 U	0.00305	< 0.001 U	< 0.002 U	22.6 D	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	11.4 D
MW-78	8/30/2012	W78-120830-	< 0.001 U	< 0.001 U	0.00164	< 0.001 U	< 0.002 U	15.1 D	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	6.83 D
MW-78	8/30/2012	W78-120830D	< 0.001 U	< 0.001 U	0.00166	< 0.001 U	< 0.002 U	15.2 D	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	6.7 D
MW-80	7/16/2012	W80-120716-	< 0.001 U	0.00422	0.0125	< 0.001 U	< 0.002 U	25.2	< 0.005 U	< 0.003 U	< 0.002 U	1.53	< 0.001 U	12.8
MW-81	7/17/2012	W81-120717-	< 0.001 U	< 0.001 U	0.00264	< 0.001 U	< 0.002 U	10.7	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	5.5
MW-82	7/3/2012	W82-120703-	< 0.001 U	< 0.001 U	0.00102	< 0.001 U	< 0.002 U	24.3	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	14.9
MW-83	7/17/2012	W83-120717-	< 0.001 U	< 0.001 U	0.0043	< 0.001 U	< 0.002 U	29.7	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	12.2
MW-83	7/17/2012	W83-120717D	< 0.001 U	< 0.001 U	0.00433	< 0.001 U	< 0.002 U	29.4	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	12.1
MW-84	7/18/2012	W84-120718-	< 0.001 U	< 0.001 U	0.00334	< 0.001 U	< 0.002 U	10.4	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	7.87
MW-85	7/27/2012	W85-120727-	< 0.001 U	< 0.001 U	0.00464	< 0.001 U	< 0.002 U	21.5	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	13.7
MW-85	7/27/2012	W85-120727D	< 0.001 U	< 0.001 U	0.00469	< 0.001 U	< 0.002 U	21.3	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	13.6
MW-86	7/16/2012	W86-120716-	< 0.001 U	< 0.001 U	0.00387	< 0.001 U	< 0.002 U	12.9	< 0.005 U	< 0.003 U	< 0.002 U	0.286	< 0.001 U	8.53
MW-87	7/20/2012	W87-120720-	< 0.001 U	< 0.001 U	0.02	< 0.001 U	< 0.002 U	35.1	< 0.005 U	< 0.003 U	< 0.002 U	3.26	< 0.001 U	23.8
MW-88	7/25/2012	W88-120725-	< 0.001 U	0.00111	0.0021	< 0.001 U	< 0.002 U	8.29	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	6.39
MW-89	7/13/2012	W89-120713-	< 0.001 U	0.00142	0.00586	< 0.001 U	< 0.002 U	12.5	< 0.005 U	< 0.003 U	< 0.002 U	0.853	< 0.001 U	9.64
MW-90	7/16/2012	W90-120716-	< 0.001 U	< 0.001 U	0.00555	< 0.001 U	< 0.002 U	16.2	< 0.005 U	< 0.003 U	< 0.002 U	1.14	< 0.001 U	9.29
MW-91	7/16/2012	W91-120716-	< 0.001 U	0.00188	0.01	< 0.001 U	< 0.002 U	21.6	< 0.005 U	< 0.003 U	< 0.002 U	2.51	< 0.001 U	14.1
MW-93	7/19/2012	W93-120719-	< 0.001 U	0.0015	0.00859	< 0.001 U	< 0.002 U	35.5	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	17.9
MW-94	7/19/2012	W94-120719-	< 0.001 U	< 0.001 U	0.0025	< 0.001 U	< 0.002 U	27.9	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	12.3

* Total Metals

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill ---Groundwater Metals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Antimony, dissolved (mg/L)	Arsenic, dissolved (mg/L)	Barium, dissolved (mg/L)	Beryllium, dissolved (mg/L)	Cadmium, dissolved (mg/L)	Calcium, dissolved (mg/L)	Chromium, dissolved (mg/L)	Cobalt, dissolved (mg/L)	Copper, dissolved (mg/L)	Iron, dissolved (mg/L)	Lead, dissolved (mg/L)	Magnesium, dissolved (mg/L)
MW-95	7/27/2012	W95-120727-	< 0.001 U	< 0.001 U	0.00341	< 0.001 U	< 0.002 U	18.5	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	10.2
MW-99	7/20/2012	W99-120720-	< 0.001 U	0.00225	0.0025	< 0.001 U	< 0.002 U	8.49	< 0.005 U	< 0.003 U	< 0.002 U	0.037 T	< 0.001 U	4.03
MW-100	7/27/2012	W100120727-	< 0.001 U	< 0.001 U	0.00704	< 0.001 U	< 0.002 U	25.9	< 0.005 U	< 0.003 U	< 0.002 U	1.53	< 0.001 U	15.7
MW-101	7/26/2012	W101120726-	< 0.001 U	0.00629	0.0354	< 0.001 U	< 0.002 U	62.1	< 0.005 U	< 0.003 U	< 0.002 U	0.239	< 0.001 U	36.8
MW-EB6	7/18/2012	WB6-120718-	< 0.001 U	0.00182	0.0166	< 0.001 U	< 0.002 U	12.8	< 0.005 U	< 0.003 U	< 0.002 U	28	< 0.001 U	6.78
WS-NPW	7/9/2012	WNPW120709-	< 0.001 U	< 0.001 U	0.0107	< 0.001 U	< 0.002 U	31	< 0.005 U	< 0.003 U	< 0.002 U	1.93	< 0.001 U	15.8
EQUIPMENT BLANK	7/17/2012	WU1H120717E	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.01 U	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	< 0.015 U
EQUIPMENT BLANK	7/17/2012	WU1S120717E	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	0.0713	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	< 0.015 U
FIELD BLANK	7/18/2012	W66-120718F	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.01 U	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	< 0.015 U
FIELD BLANK	7/27/2012	W100120727F	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.01 U	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U	< 0.015 U

* Total Metals

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill ---Groundwater Metals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Manganese, dissolved (mg/L)	Mercury, dissolved (mg/L)	Nickel, dissolved (mg/L)	Potassium, dissolved (mg/L)	Selenium, dissolved (mg/L)	Silver, dissolved (mg/L)	Sodium, dissolved (mg/L)	Thallium, dissolved (mg/L)	Vanadium, dissolved (mg/L)	Zinc, dissolved (mg/L)
MW-21	7/31/2012	W21-120731-	0.0713	< 0.0001 U	< 0.01 U	0.988 D	< 0.001 U	< 0.003 U	5.61	< 0.001 U	< 0.002 U	< 0.004 U
MW-24	7/18/2012	W24-120718-	0.105 D	< 0.0001 U	< 0.01 U	0.891	< 0.001 U	< 0.003 U	5.45	< 0.001 U	< 0.002 U	< 0.004 U
MW-27A	7/13/2012	W27A120713-	0.0665 D	< 0.0001 U	< 0.01 U	3.52	< 0.001 U	< 0.003 DU	6.8	< 0.001 DU	< 0.002 U	< 0.004 U
MW-28	7/16/2012	W28-120716-	< 0.001 DU	< 0.0001 U	< 0.01 U	0.931	< 0.001 U	< 0.003 U	5.7	< 0.001 U	< 0.002 U	< 0.004 U
MW-29	7/16/2012	W29-120716-	< 0.001 DU	< 0.0001 U	< 0.01 U	0.49 T	< 0.001 U	< 0.003 U	4.23	< 0.001 U	< 0.002 U	< 0.004 U
MW-30A	7/3/2012	W30A120703-	< 0.001 DU	< 0.0001 U	< 0.01 U	1.69	< 0.001 U	< 0.003 DU	15.7	< 0.001 DU	< 0.002 U	< 0.004 U
MW-43	7/3/2012	W43-120703-	0.231 D	< 0.0001 U	< 0.01 U	1.31	< 0.001 U	< 0.003 DU	6.12	< 0.001 DU	< 0.002 U	< 0.004 U
MW-47	7/17/2012	W47-120717-	1.75 D	< 0.0001 U	< 0.01 U	5	< 0.001 U	< 0.003 U	18.3	< 0.001 U	< 0.002 U	< 0.004 U
MW-55	7/18/2012	W55-120718-	0.146 D	< 0.0001 U	< 0.01 U	1.66	< 0.001 U	< 0.003 U	5.55	< 0.001 U	< 0.002 U	< 0.004 U
MW-56	7/13/2012	W56-120713-	0.0727 D	< 0.0001 U	< 0.01 U	0.981	< 0.001 U	< 0.003 DU	4.91	< 0.001 DU	< 0.002 U	< 0.004 U
MW-57	7/9/2012	W57-120709-	0.295 D	< 0.0001 U	< 0.01 U	0.959	< 0.001 U	< 0.003 DU	6.67	< 0.001 DU	< 0.002 U	< 0.004 U
MW-57	7/9/2012	W57-120709D	0.296 D	< 0.0001 U	< 0.01 U	0.96	< 0.001 U	< 0.003 DU	6.66	< 0.001 DU	< 0.002 U	< 0.004 U
MW-58A	7/10/2012	W58A120710-	0.369 D	< 0.0001 U	< 0.01 U	1.01	< 0.001 U	< 0.003 DU	5.7	< 0.001 DU	< 0.002 U	< 0.004 U
MW-59	7/3/2012	W59-120703-	0.109 D	< 0.0001 U	< 0.01 U	1.03	< 0.001 U	< 0.003 DU	5.44	< 0.001 DU	< 0.002 U	< 0.004 U
MW-60	7/25/2012	W60-120725-	< 0.001 U	< 0.0001 U	< 0.01 U	1.11	< 0.001 U	< 0.003 U	5.71	< 0.001 U	< 0.002 U	< 0.004 U
MW-64	7/19/2012	W64-120719-	0.426	< 0.0001 U	< 0.01 U	1.52	< 0.001 U	< 0.003 U	6.8	< 0.001 U	< 0.002 U	< 0.004 U
MW-65	7/17/2012	W65-120717-	0.179 D	< 0.0001 U	< 0.01 U	0.942	< 0.001 U	< 0.003 U	5.13	< 0.001 U	< 0.002 U	< 0.004 U
MW-66	7/18/2012	W66-120718-	< 0.001 DU	< 0.0001 U	< 0.01 U	1.29	0.00108	< 0.003 U	7.96	< 0.001 U	< 0.002 U	< 0.004 U
MW-67	7/24/2012	W67-120724-	0.0922	< 0.0001 U	< 0.01 U	1.48	< 0.001 U	< 0.003 U	8.49	< 0.001 U	< 0.002 U	< 0.004 U
MW-68	7/25/2012	W68-120725-	0.208	< 0.0001 U	< 0.01 U	1.57	< 0.001 U	< 0.003 U	8.12	< 0.001 U	< 0.002 U	< 0.004 U
MW-70	7/13/2012	W70-120713-	< 0.001 DU	< 0.0001 U	< 0.01 U	1.43	< 0.001 U	< 0.003 DU	6.31	< 0.001 DU	< 0.002 U	< 0.004 U
MW-72	7/26/2012	W72-120726-	0.275	< 0.0001 U	< 0.01 U	1.66	< 0.001 U	< 0.003 U	7.08	< 0.001 U	< 0.002 U	< 0.004 U
MW-73	7/23/2012	W73-120723-	< 0.001 U	< 0.0001 U	< 0.01 U	0.789	< 0.001 U	< 0.003 U	5.57	< 0.001 U	< 0.002 U	< 0.004 U
MW-74	7/23/2012	W74R120723-	< 0.001 U	< 0.0001 U	< 0.01 U	1.9	< 0.001 U	< 0.003 U	11.4	< 0.001 U	< 0.002 U	< 0.004 U
MW-75	7/23/2012	W75-120723-	0.123	< 0.0001 U	< 0.01 U	1.63	< 0.001 U	< 0.003 U	7.94	< 0.001 U	< 0.002 U	< 0.004 U
MW-76	7/17/2012	W76-120717-	< 0.001 DU	< 0.0001 U	< 0.01 U	1.18	< 0.001 U	< 0.003 U	7.01	< 0.001 U	< 0.002 U	< 0.004 U
MW-77	8/30/2012	W77-120830-	0.016 D	< 0.0001 U	< 0.01 U	1.46 D	< 0.001 U	< 0.003 DU	7.32 D	< 0.001 U	< 0.002 U	< 0.004 U
MW-78	8/30/2012	W78-120830-	< 0.001 DU	< 0.0001 U	< 0.01 U	2.09 D	< 0.001 U	< 0.003 DU	5.87 D	< 0.001 U	< 0.002 U	< 0.004 U
MW-78	8/30/2012	W78-120830D	< 0.001 DU	< 0.0001 U	< 0.01 U	2.1 D	< 0.001 U	< 0.003 DU	5.74 D	< 0.001 U	< 0.002 U	< 0.004 U
MW-80	7/16/2012	W80-120716-	0.235 D	< 0.0001 U	< 0.01 U	1.51	< 0.001 U	< 0.003 U	6.85	< 0.001 U	< 0.002 U	< 0.004 U
MW-81	7/17/2012	W81-120717-	< 0.001 DU	< 0.0001 U	< 0.01 U	0.732	0.00115	< 0.003 U	5.3	< 0.001 U	< 0.002 U	< 0.004 U
MW-82	7/3/2012	W82-120703-	< 0.001 DU	< 0.0001 U	< 0.01 U	1.75	< 0.001 U	< 0.003 DU	7.19	< 0.001 DU	< 0.002 U	< 0.004 U
MW-83	7/17/2012	W83-120717-	0.0014 D	< 0.0001 U	< 0.01 U	2.11	< 0.001 U	< 0.003 U	7.03	< 0.001 U	< 0.002 U	< 0.004 U
MW-83	7/17/2012	W83-120717D	0.0012 D	< 0.0001 U	< 0.01 U	2.07	< 0.001 U	< 0.003 U	6.98	< 0.001 U	< 0.002 U	< 0.004 U
MW-84	7/18/2012	W84-120718-	< 0.001 DU	< 0.0001 U	< 0.01 U	0.975	< 0.001 U	< 0.003 U	5.65	< 0.001 U	< 0.002 U	< 0.004 U
MW-85	7/27/2012	W85-120727-	< 0.001 U	< 0.0001 U	< 0.01 U	1.33	0.00154	< 0.003 U	7.59	< 0.001 U	< 0.002 U	< 0.004 U
MW-85	7/27/2012	W85-120727D	< 0.001 U	< 0.0001 U	< 0.01 U	1.33	0.0016	< 0.003 U	7.51	< 0.001 U	< 0.002 U	< 0.004 U
MW-86	7/16/2012	W86-120716-	0.00537 D	< 0.0001 U	< 0.01 U	1.08	0.00179	< 0.003 U	5.95	< 0.001 U	< 0.002 U	< 0.004 U
MW-87	7/20/2012	W87-120720-	0.353	< 0.0001 U	< 0.01 U	2.02	< 0.001 U	< 0.003 U	8.89	< 0.001 U	< 0.002 U	< 0.004 U
MW-88	7/25/2012	W88-120725-	< 0.001 U	< 0.0001 U	< 0.01 U	0.789	< 0.001 U	< 0.003 U	5.38	< 0.001 U	0.00281	< 0.004 U
MW-89	7/13/2012	W89-120713-	0.252 D	< 0.0001 U	< 0.01 U	1.44	< 0.001 U	< 0.003 DU	8.3	< 0.001 DU	< 0.002 U	< 0.004 U
MW-90	7/16/2012	W90-120716-	0.245 D	< 0.0001 U	< 0.01 U	1.33	< 0.001 U	< 0.003 U	5.99	< 0.001 U	< 0.002 U	< 0.004 U
MW-91	7/16/2012	W91-120716-	0.275 D	< 0.0001 U	< 0.01 U	1.64	< 0.001 U	< 0.003 U	7.38	< 0.001 U	< 0.002 U	< 0.004 U
MW-93	7/19/2012	W93-120719-	0.252 D	< 0.0001 U	< 0.01 U	1.56	< 0.001 U	< 0.003 U	9.12	< 0.001 U	< 0.002 U	0.0115
MW-94	7/19/2012	W94-120719-	< 0.001 DU	< 0.0001 U	< 0.01 U	2.12	< 0.001 U	< 0.003 U	7.03	< 0.001 U	< 0.002 U	< 0.004 U

* Total Metals

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill ---Groundwater Metals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Manganese, dissolved (mg/L)	Mercury, dissolved (mg/L)	Nickel, dissolved (mg/L)	Potassium, dissolved (mg/L)	Selenium, dissolved (mg/L)	Silver, dissolved (mg/L)	Sodium, dissolved (mg/L)	Thallium, dissolved (mg/L)	Vanadium, dissolved (mg/L)	Zinc, dissolved (mg/L)
MW-95	7/27/2012	W95-120727-	0.13	< 0.0001 U	< 0.01 U	1.12	< 0.001 U	< 0.003 U	5.77	< 0.001 U	< 0.002 U	< 0.004 U
MW-99	7/20/2012	W99-120720-	0.0601	< 0.0001 U	< 0.01 U	0.824	< 0.001 U	< 0.003 U	9.34	< 0.001 U	< 0.002 U	< 0.004 U
MW-100	7/27/2012	W100120727-	0.222	< 0.0001 U	< 0.01 U	1.85	< 0.001 U	< 0.003 U	9.12	< 0.001 U	< 0.002 U	< 0.004 U
MW-101	7/26/2012	W101120726-	1.23	< 0.0001 U	< 0.01 U	3.11	< 0.001 U	< 0.003 U	14.9	< 0.001 U	< 0.002 U	< 0.004 U
MW-EB6	7/18/2012	WB6-120718-	1.06 D	< 0.0001 U	< 0.01 U	1.55	< 0.001 U	< 0.003 U	10.2	< 0.001 U	< 0.002 U	< 0.004 U
WS-NPW	7/9/2012	WNPW120709-	0.289 D	< 0.0001 U	< 0.01 U	1.61 D	< 0.001 U	< 0.003 U	8.61	< 0.001 U	< 0.002 U	0.0102
EQUIPMENT BLANK	7/17/2012	WU1H120717E	< 0.001 U	< 0.0001 U	< 0.01 U	< 0.3 U	< 0.001 U	< 0.003 U	0.428	< 0.001 U	< 0.002 U	< 0.004 U
EQUIPMENT BLANK	7/17/2012	WU1S120717E	< 0.001 U	< 0.0001 U	< 0.01 U	< 0.3 U	< 0.001 U	< 0.003 U	0.503	< 0.001 U	< 0.002 U	< 0.004 U
FIELD BLANK	7/18/2012	W66-120718F	< 0.001 DU	< 0.0001 U	< 0.01 U	< 0.3 U	< 0.001 U	< 0.003 U	0.517	< 0.001 U	< 0.002 U	< 0.004 U
FIELD BLANK	7/27/2012	W100120727F	< 0.001 U	< 0.0001 U	< 0.01 U	< 0.3 U	< 0.001 U	< 0.003 U	0.425	< 0.001 U	< 0.002 U	< 0.004 U

* Total Metals

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	1,1,1,2-Tetrachloroethane 630-20-6 (ug/L)	1,1,1-Trichloroethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloroethane 79-34-5 (ug/L)	1,1,2-Trichloroethane 79-00-5 (ug/L)	1,1-Dichloroethane 75-34-3 (ug/L)	1,1-Dichloroethene 75-35-4 (ug/L)	1,2,3-Trichloropropane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)	1,2-Dibromoethane 106-93-4 (ug/L)	1,2-Dichlorobenzene 95-50-1 (ug/L)	1,2-Dichloroethane 107-06-2 (ug/L)	1,2-Dichloropropane 78-87-5 (ug/L)
MW-21	7/31/2012	W21-120731-	< 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	7/18/2012	W24-120718-	< 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	7/13/2012	W27A120713-	< 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	7/16/2012	W28-120716-	< 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	7/16/2012	W29-120716-	< 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	7/3/2012	W30A120703-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.6	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-43	7/3/2012	W43-120703-	< 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	7/17/2012	W47-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.46	< 0.2 U	< 0.2 U	< 1 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-55	7/18/2012	W55-120718-	< 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	7/13/2012	W56-120713-	< 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	7/9/2012	W57-120709-	< 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	7/9/2012	W57-120709D	< 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-58A	7/10/2012	W58A120710-	< 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	7/3/2012	W59-120703-	< 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	7/25/2012	W60-120725-	< 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-64	7/19/2012	W64-120719-	< 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	7/17/2012	W65-120717-	< 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	7/18/2012	W66-120718-	< 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	7/24/2012	W67-120724-	< 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	7/25/2012	W68-120725-	< 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-70	7/13/2012	W70-120713-	< 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	7/26/2012	W72-120726-	< 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	7/23/2012	W73-120723-	< 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	7/23/2012	W74R120723-	< 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	8/17/2012	W74R120817-	< 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	9/21/2012	W74R120921-	< 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	7/23/2012	W75-120723-	< 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	8/17/2012	W75-120817-	< 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	9/21/2012	W75-120921-	< 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	7/17/2012	W76-120717-	< 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-77	8/30/2012	W77-120830-	< 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-78	8/30/2012	W78-120830-	< 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-78	8/30/2012	W78-120830D	< 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	7/16/2012	W80-120716-	< 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	7/17/2012	W81-120717-	< 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	7/3/2012	W82-120703-	< 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	7/17/2012	W83-120717-	< 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	7/17/2012	W83-120717D	< 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	7/18/2012	W84-120718-	< 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	7/27/2012	W85-120727-	< 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	7/27/2012	W85-120727D	< 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	7/16/2012	W86-120716-	< 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	7/20/2012	W87-120720-	< 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	8/20/2012	W87-120820-	< 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	9/21/2012	W87-120921-	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	1,1,1,2-Tetrachloroethane 630-20-6 (ug/L)	1,1,1-Trichloroethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloroethane 79-34-5 (ug/L)	1,1,2-Trichloroethane 79-00-5 (ug/L)	1,1-Dichloroethane 75-34-3 (ug/L)	1,1-Dichloroethene 75-35-4 (ug/L)	1,2,3-Trichloropropane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)	1,2-Dibromoethane 106-93-4 (ug/L)	1,2-Dichlorobenzene 95-50-1 (ug/L)	1,2-Dichloroethane 107-06-2 (ug/L)	1,2-Dichloropropane 78-87-5 (ug/L)
MW-88	7/25/2012	W88-120725-	< 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	7/13/2012	W89-120713-	< 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	7/16/2012	W90-120716-	< 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	7/16/2012	W91-120716-	< 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	7/19/2012	W93-120719-	< 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-94	7/19/2012	W94-120719-	< 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	7/27/2012	W95-120727-	< 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	7/20/2012	W99-120720-	< 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	8/20/2012	W99-120820-	< 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	9/21/2012	W99-120921-	< 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	7/27/2012	W100120727-	< 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	7/26/2012	W101120726-	< 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	7/18/2012	WB6-120718-	< 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	7/9/2012	WNPW120709-	< 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	7/18/2012	W66-120718F	< 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	7/27/2012	W100120727F	< 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	8/17/2012	W74R120817F	< 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	7/2/2012	VTRP120703C	< 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	7/3/2012	VTRP120709L	< 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	7/5/2012	VTRP120709B	< 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	7/9/2012	VTRP120710B	< 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	7/10/2012	VTRP120711B	< 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	7/10/2012	VTRP120711C	< 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	7/11/2012	VTRP120713C	< 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	7/12/2012	VTRP120713B	< 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	7/12/2012	VTRP120716B	< 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	7/13/2012	VTRP120716C	< 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	7/16/2012	VTRP120717B	< 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	7/16/2012	VTRP120717C	< 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	7/17/2012	VTRP120718B	< 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	7/17/2012	VTRP120718C	< 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	7/18/2012	VTRP120719B	< 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	7/18/2012	VTRP120719C	< 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	7/19/2012	VTRP120720C	< 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	7/19/2012	VTRP120723B	< 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	7/20/2012	VTRP120723C	< 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	7/23/2012	VTRP120724B	< 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	7/23/2012	VTRP120725C	< 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	7/24/2012	VTRP120725B	< 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	7/25/2012	VTRP120726B	< 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	7/25/2012	VTRP120726C	< 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	7/26/2012	VTRP120727B	< 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	7/26/2012	VTRP120727C	< 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	7/30/2012	VTRP120731B	< 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	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 1 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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)
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	8/16/2012	VTRP120817B	< 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	8/16/2012	VTRP120820C	< 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	8/29/2012	VTRP120830B	< 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	9/4/2012	VTRP120905C	< 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	9/20/2012	VTRP120921B	< 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	9/20/2012	VTRP120921C	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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	7/31/2012	W21-120731-	< 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	7/18/2012	W24-120718-	< 0.2 U	< 4 U	< 4 U	< 4 U	12.5	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-27A	7/13/2012	W27A120713-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.82	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-28	7/16/2012	W28-120716-	< 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	7/16/2012	W29-120716-	< 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	7/3/2012	W30A120703-	< 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	7/3/2012	W43-120703-	< 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	7/17/2012	W47-120717-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.95	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-55	7/18/2012	W55-120718-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.34	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-56	7/13/2012	W56-120713-	< 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	7/9/2012	W57-120709-	< 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	7/9/2012	W57-120709D	< 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-58A	7/10/2012	W58A120710-	< 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	7/3/2012	W59-120703-	< 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	7/25/2012	W60-120725-	< 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	7/19/2012	W64-120719-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-65	7/17/2012	W65-120717-	< 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	7/18/2012	W66-120718-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.99	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-67	7/24/2012	W67-120724-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-68	7/25/2012	W68-120725-	< 0.2 U	< 4 U	< 4 U	< 4 U	7.27	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-70	7/13/2012	W70-120713-	< 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	7/26/2012	W72-120726-	< 0.2 U	< 4 U	< 4 U	< 4 U	5.91	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-73	7/23/2012	W73-120723-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.38 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	7/23/2012	W74R120723-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.38 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-74	8/17/2012	W74R120817-	< 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	9/21/2012	W74R120921-	< 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	7/23/2012	W75-120723-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-75	8/17/2012	W75-120817-	< 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	9/21/2012	W75-120921-	< 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	7/17/2012	W76-120717-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.26	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-77	8/30/2012	W77-120830-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-78	8/30/2012	W78-120830-	< 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-78	8/30/2012	W78-120830D	< 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	7/16/2012	W80-120716-	< 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	7/17/2012	W81-120717-	< 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	7/3/2012	W82-120703-	< 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	7/17/2012	W83-120717-	< 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	7/17/2012	W83-120717D	< 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	7/18/2012	W84-120718-	< 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	7/27/2012	W85-120727-	< 0.2 U	< 4 U	< 4 U	< 4 U	4.45	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-85	7/27/2012	W85-120727D	< 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	7/16/2012	W86-120716-	< 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	7/20/2012	W87-120720-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-87	8/20/2012	W87-120820-	< 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	9/21/2012	W87-120921-	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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-88	7/25/2012	W88-120725-	< 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	7/13/2012	W89-120713-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-90	7/16/2012	W90-120716-	< 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	7/16/2012	W91-120716-	< 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	7/19/2012	W93-120719-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-94	7/19/2012	W94-120719-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-95	7/27/2012	W95-120727-	< 0.2 U	< 4 U	< 4 U	< 4 U	9.04	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	7/20/2012	W99-120720-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-99	8/20/2012	W99-120820-	< 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	9/21/2012	W99-120921-	< 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	7/27/2012	W100120727-	< 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	7/26/2012	W101120726-	< 0.2 U	< 4 U	< 4 U	< 4 U	7.15	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-EB6	7/18/2012	WB6-120718-	< 0.2 U	< 4 U	< 4 U	< 4 U	13	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
WS-NPW	7/9/2012	WNPW120709-	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	7/18/2012	W66-120718F	< 0.2 U	< 4 U	< 4 U	< 4 U	8.12	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	7/27/2012	W100120727F	< 0.2 U	< 4 U	< 4 U	< 4 U	6.7 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
FIELD BLANK	8/17/2012	W74R120817F	< 0.2 U	< 4 U	< 4 U	< 4 U	6.86	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/2/2012	VTRP120703C	< 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	7/3/2012	VTRP120709L	< 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	7/5/2012	VTRP120709B	< 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	7/9/2012	VTRP120710B	< 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	7/10/2012	VTRP120711B	< 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	7/10/2012	VTRP120711C	< 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	7/11/2012	VTRP120713C	< 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	7/12/2012	VTRP120713B	< 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	7/12/2012	VTRP120716B	< 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	7/13/2012	VTRP120716C	< 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	7/16/2012	VTRP120717B	< 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	7/16/2012	VTRP120717C	< 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	7/17/2012	VTRP120718B	< 0.2 U	< 4 U	< 4 U	< 4 U	4 T	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/17/2012	VTRP120718C	< 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	7/18/2012	VTRP120719B	< 0.2 U	< 4 U	< 4 U	< 4 U	4.92 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/18/2012	VTRP120719C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/19/2012	VTRP120720C	< 0.2 U	< 4 U	< 4 U	< 4 U	< 4 LU	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/19/2012	VTRP120723B	< 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	7/20/2012	VTRP120723C	< 0.2 U	< 4 U	< 4 U	< 4 U	4.29 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/23/2012	VTRP120724B	< 0.2 U	< 4 U	< 4 U	< 4 U	4.12 L	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/23/2012	VTRP120725C	< 0.2 U	< 4 U	< 4 U	< 4 U	5.31	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/24/2012	VTRP120725B	< 0.2 U	< 4 U	< 4 U	< 4 U	6.38	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/25/2012	VTRP120726B	< 0.2 U	< 4 U	< 4 U	< 4 U	4.38	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	7/25/2012	VTRP120726C	< 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	7/26/2012	VTRP120727B	< 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	7/26/2012	VTRP120727C	< 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	7/30/2012	VTRP120731B	< 0.2 U	< 4 U	< 4 U	< 4 U	4.15	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	8/7/2012	VTRP120808B	< 0.2 HU	< 4 HU	< 4 HU	< 4 HU	< 4 HU	< 0.07 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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)
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	8/16/2012	VTRP120817B	< 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	8/16/2012	VTRP120820C	< 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	8/29/2012	VTRP120830B	< 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	9/4/2012	VTRP120905C	< 0.2 U	< 4 U	< 4 U	< 4 U	4.59	< 0.07 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
VOA TRIP BLANK	9/20/2012	VTRP120921B	< 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	9/20/2012	VTRP120921C	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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	7/31/2012	W21-120731-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	W24-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.25 T	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-27A	7/13/2012	W27A120713-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	W28-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	W29-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/3/2012	W30A120703-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.2	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-43	7/3/2012	W43-120703-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	W47-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	1.28	< 0.2 U	< 0.2 U	4.51	< 0.2 U	< 0.2 U
MW-55	7/18/2012	W55-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/13/2012	W56-120713-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.755	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-57	7/9/2012	W57-120709-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-57	7/9/2012	W57-120709D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-58A	7/10/2012	W58A120710-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/3/2012	W59-120703-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.657	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-60	7/25/2012	W60-120725-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-64	7/19/2012	W64-120719-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	W65-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	W66-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/24/2012	W67-120724-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/25/2012	W68-120725-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-70	7/13/2012	W70-120713-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/26/2012	W72-120726-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-73	7/23/2012	W73-120723-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/23/2012	W74R120723-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/17/2012	W74R120817-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/21/2012	W74R120921-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/23/2012	W75-120723-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/17/2012	W75-120817-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/21/2012	W75-120921-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-76	7/17/2012	W76-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.459	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
MW-77	8/30/2012	W77-120830-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-78	8/30/2012	W78-120830-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-78	8/30/2012	W78-120830D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-80	7/16/2012	W80-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	W81-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/3/2012	W82-120703-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	W83-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	W83-120717D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	W84-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/27/2012	W85-120727-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/27/2012	W85-120727D	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	W86-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/20/2012	W87-120720-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/20/2012	W87-120820-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/21/2012	W87-120921-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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-88	7/25/2012	W88-120725-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/13/2012	W89-120713-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	W90-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	W91-120716-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/19/2012	W93-120719-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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-94	7/19/2012	W94-120719-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/27/2012	W95-120727-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/20/2012	W99-120720-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/20/2012	W99-120820-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/21/2012	W99-120921-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/27/2012	W100120727-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/26/2012	W101120726-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	WB6-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
WS-NPW	7/9/2012	WNPW120709-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	W66-120718F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/27/2012	W100120727F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/17/2012	W74R120817F	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/2/2012	VTRP120703C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/3/2012	VTRP120709L	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/5/2012	VTRP120709B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/9/2012	VTRP120710B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/10/2012	VTRP120711B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/10/2012	VTRP120711C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/11/2012	VTRP120713C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/12/2012	VTRP120713B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/12/2012	VTRP120716B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/13/2012	VTRP120716C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	VTRP120717B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/16/2012	VTRP120717C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	VTRP120718B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/17/2012	VTRP120718C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	VTRP120719B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/18/2012	VTRP120719C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/19/2012	VTRP120720C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/19/2012	VTRP120723B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/20/2012	VTRP120723C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/23/2012	VTRP120724B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/23/2012	VTRP120725C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/24/2012	VTRP120725B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/25/2012	VTRP120726B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/25/2012	VTRP120726C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/26/2012	VTRP120727B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/26/2012	VTRP120727C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	7/30/2012	VTRP120731B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

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)
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/16/2012	VTRP120817B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/16/2012	VTRP120820C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	8/29/2012	VTRP120830B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/4/2012	VTRP120905C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/20/2012	VTRP120921B	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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	9/20/2012	VTRP120921C	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	Methyl Iodide 74-88-4 (ug/L)	Methylene Chloride 75-09-2 (ug/L)	o-Xylene 95-47-6 (ug/L)	Styrene 100-42-5 (ug/L)	Tetrachloro-ethene 127-18-4 (ug/L)	Toluene 108-88-3 (ug/L)	trans-1,2-Dichloro-ethene 156-60-5 (ug/L)	trans-1,3-Dichloro-propene 10061-02-6 (ug/L)	trans-1,4-Dichloro-2-butene 110-57-6 (ug/L)	Trichloro-ethene 79-01-6 (ug/L)	Trichloro-fluoro-methane 75-69-4 (ug/L)	Vinyl Acetate 108-05-4 (ug/L)	Vinyl Chloride 75-01-4 (ug/L)
MW-21	7/31/2012	W21-120731-	< 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	7/18/2012	W24-120718-	< 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	7/13/2012	W27A120713-	< 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	7/16/2012	W28-120716-	< 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	7/16/2012	W29-120716-	< 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	7/3/2012	W30A120703-	< 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	1.33	< 0.2 U	< 0.2 U	< 0.02 U
MW-43	7/3/2012	W43-120703-	< 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	7/17/2012	W47-120717-	< 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	4.54
MW-55	7/18/2012	W55-120718-	< 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	7/13/2012	W56-120713-	< 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	7/9/2012	W57-120709-	< 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	7/9/2012	W57-120709D	< 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-58A	7/10/2012	W58A120710-	< 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	7/3/2012	W59-120703-	< 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	7/25/2012	W60-120725-	< 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	7/19/2012	W64-120719-	< 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	7/17/2012	W65-120717-	< 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	0.04
MW-66	7/18/2012	W66-120718-	< 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	7/24/2012	W67-120724-	< 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	7/25/2012	W68-120725-	< 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-70	7/13/2012	W70-120713-	< 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	7/26/2012	W72-120726-	< 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	7/23/2012	W73-120723-	< 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	7/23/2012	W74R120723-	< 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	8/17/2012	W74R120817-	< 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	9/21/2012	W74R120921-	< 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	7/23/2012	W75-120723-	< 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	8/17/2012	W75-120817-	< 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	9/21/2012	W75-120921-	< 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	7/17/2012	W76-120717-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.39 T	< 0.2 U	< 0.2 U	< 0.2 U	< 100 U	8.3	< 0.2 U	< 0.2 U	< 0.02 U
MW-77	8/30/2012	W77-120830-	< 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-78	8/30/2012	W78-120830-	< 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	0.613	< 0.2 U	< 0.2 U	< 0.02 U
MW-78	8/30/2012	W78-120830D	< 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	0.562	< 0.2 U	< 0.2 U	< 0.02 U
MW-80	7/16/2012	W80-120716-	< 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	7/17/2012	W81-120717-	< 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	7/3/2012	W82-120703-	< 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	4.61	< 0.2 U	< 0.2 U	< 0.02 U
MW-83	7/17/2012	W83-120717-	< 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	1.26	< 0.2 U	< 0.2 U	< 0.02 U
MW-83	7/17/2012	W83-120717D	< 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	1.34	< 0.2 U	< 0.2 U	< 0.02 U
MW-84	7/18/2012	W84-120718-	< 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	7/27/2012	W85-120727-	< 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	7/27/2012	W85-120727D	< 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	7/16/2012	W86-120716-	< 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	7/20/2012	W87-120720-	< 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	8/20/2012	W87-120820-	< 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	9/21/2012	W87-120921-	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	Methyl Iodide 74-88-4 (ug/L)	Methylene Chloride 75-09-2 (ug/L)	o-Xylene 95-47-6 (ug/L)	Styrene 100-42-5 (ug/L)	Tetrachloro-ethene 127-18-4 (ug/L)	Toluene 108-88-3 (ug/L)	trans-1,2-Dichloro-ethene 156-60-5 (ug/L)	trans-1,3-Dichloro-propene 10061-02-6 (ug/L)	trans-1,4-Dichloro-2-butene 110-57-6 (ug/L)	Trichloro-ethene 79-01-6 (ug/L)	Trichloro-fluoro-methane 75-69-4 (ug/L)	Vinyl Acetate 108-05-4 (ug/L)	Vinyl Chloride 75-01-4 (ug/L)
MW-88	7/25/2012	W88-120725-	< 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-89	7/13/2012	W89-120713-	< 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	7/16/2012	W90-120716-	< 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	7/16/2012	W91-120716-	< 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	7/19/2012	W93-120719-	< 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-94	7/19/2012	W94-120719-	< 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	2.84	< 0.2 U	< 0.2 U	< 0.02 U
MW-95	7/27/2012	W95-120727-	< 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	7/20/2012	W99-120720-	< 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	8/20/2012	W99-120820-	< 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	9/21/2012	W99-120921-	< 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	7/27/2012	W100120727-	< 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	7/26/2012	W101120726-	< 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	0.295
MW-EB6	7/18/2012	WB6-120718-	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3.49	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.02 U
WS-NPW	7/9/2012	WNPW120709-	< 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
FIELD BLANK	7/18/2012	W66-120718F	< 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
FIELD BLANK	7/27/2012	W100120727F	< 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
FIELD BLANK	8/17/2012	W74R120817F	< 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	7/2/2012	VTRP120703C	< 0.2 U	0.856	< 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	7/3/2012	VTRP120709L	< 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	7/5/2012	VTRP120709B	< 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	7/9/2012	VTRP120710B	< 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	7/10/2012	VTRP120711B	< 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	7/10/2012	VTRP120711C	< 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	7/11/2012	VTRP120713C	< 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	7/12/2012	VTRP120713B	< 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	7/12/2012	VTRP120716B	< 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	7/13/2012	VTRP120716C	< 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	7/16/2012	VTRP120717B	< 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	7/16/2012	VTRP120717C	< 0.2 U	0.21 T	< 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	7/17/2012	VTRP120718B	< 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	7/17/2012	VTRP120718C	< 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	7/18/2012	VTRP120719B	< 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	7/18/2012	VTRP120719C	< 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	7/19/2012	VTRP120720C	< 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	7/19/2012	VTRP120723B	< 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	7/20/2012	VTRP120723C	< 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	7/23/2012	VTRP120724B	< 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	7/23/2012	VTRP120725C	< 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	7/24/2012	VTRP120725B	< 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	7/25/2012	VTRP120726B	< 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	7/25/2012	VTRP120726C	< 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	7/26/2012	VTRP120727B	< 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	7/26/2012	VTRP120727C	< 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	7/30/2012	VTRP120731B	< 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	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 100 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.02 HU

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Groundwater VOA Analytical Data
Contact Person: Sandy Jimenez (206) 296-4411

Site	Date	Sample ID	Methyl Iodide 74-88-4 (ug/L)	Methylene Chloride 75-09-2 (ug/L)	o-Xylene 95-47-6 (ug/L)	Styrene 100-42-5 (ug/L)	Tetrachloro-ethene 127-18-4 (ug/L)	Toluene 108-88-3 (ug/L)	trans-1,2-Dichloro-ethene 156-60-5 (ug/L)	trans-1,3-Dichloro-propene 10061-02-6 (ug/L)	trans-1,4-Dichloro-2-butene 110-57-6 (ug/L)	Trichloro-ethene 79-01-6 (ug/L)	Trichloro-fluoro-methane 75-69-4 (ug/L)	Vinyl Acetate 108-05-4 (ug/L)	Vinyl Chloride 75-01-4 (ug/L)
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	8/16/2012	VTRP120817B	< 0.2 U	0.36 T	< 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	8/16/2012	VTRP120820C	< 0.2 U	0.28 T	< 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	8/29/2012	VTRP120830B	< 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	9/4/2012	VTRP120905C	< 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	9/20/2012	VTRP120921B	< 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	9/20/2012	VTRP120921C	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill ---Surface Water Elevation Data-Staff Gage Measurements
Contact Person: Sendy Jimenez (206) 296-4411

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
SG-1	SW-W1	8/29/2012	415.38	418.84	2.93		415.91	
SG-1	SW-W1	9/19/2012	415.38	418.84	2.94		415.90	
SG-2	SW-N1	8/29/2012	355.68	358.21	3.43		354.78	
SG-2	SW-N1	9/19/2012	355.68	358.21	5.01		353.20	
SG-3	SW -V	8/29/2012	466.46	469.88	5.47		464.41	
SG-3	SW -V	9/19/2012	466.46	469.88	5.51		464.37	
SG-4	Upstream of SW-E1	8/29/2012	502.41	505.85	6.23		499.62	
SG-4	Upstream of SW-E1	9/19/2012	502.41	505.85	6.23		499.62	
SG-5	SW-E1	8/29/2012	486.92	490.34	5.30		485.04	
SG-5	SW-E1	9/19/2012	486.92	490.34	5.32		485.02	
SG-6	Upstream of SW-GS1	8/28/2012	490.72	494.12	7.2		486.92	
SG-6	Upstream of SW-GS1	9/19/2012	490.72	494.12	7.2		486.92	
SG-7	SW-S2	8/28/2012	453.03	456.41	6.25		450.16	
SG-7	SW-S2	9/19/2012	453.03	456.41	8.6		447.81	
SG-8	Upstream of SW-S1	8/28/2012	510.61	515.56	4.85		510.71	
SG-8	Upstream of SW-S1	9/19/2012	510.61	515.56	4.8		510.76	
SG-9	SW-S1	8/28/2012	490.93	494.35	4.35		490.00	
SG-9	SW-S1	9/19/2012	490.93	494.35	6.15		488.20	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Field Parameters
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (°C)	Turbidity (NTU)	Oxygen, Dissolved (mg/L)
SW-GS1	7/12/2012	SGS1120712Q	7.35	180	16.1	6.96	7.6
SW-MC	7/12/2012	SMC-120712Q	7.17	100	15.5	1.46	9.4
SW-N1	7/12/2012	SN1-120712Q	6.94	110	13.9	2.17	9.04
SW-N4	7/12/2012	SN4-120712Q	7.33	125	18.2	0.8	8.89
SW-S1	7/12/2012	SS1-120712Q	6.48	61	15.1	0.88	3.5
SW-S2	7/12/2012	SS2-120712Q	6.59	175	15.5	7.67	2.2
SW-SLP1	7/24/2012	SLP1120724P	7.05	12.5	13.6	14.3	7.74
SW-SLP2	7/24/2012	SLP2120724P	7.16	205	13.3	3.01	9.25
SW-SLP2	8/7/2012	SLP2120807P	7.29	240	15.6	3.88	9.08
SW-SLP2	9/27/2012	SLP2120927P	7.98	270	12.8	10.4	10.01
SW-W1	7/12/2012	SW1-120712Q	7.3	120	15.3	1.58	9.45
SW-W1	8/29/2012	SW1-120829M	7.44	125	13.3	1.56	10.21
SW-W1	9/19/2012	SW1-120919M	7.55	140	12.4	2.06	10.38
SW-W2	7/12/2012	SW2-120712Q	6.58	62	12.7	0.81	5.84
Field Blank	7/24/2012	SLP2120724F	5.54	19	14.7	0.45	8.71

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Conventionals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

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/100m	Coliforms, Total (CFU/100m	Cyanide (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate-Nitrogen, (NO3 as N) (mg/L)	Nitrate+Nitrite (NO3+NO2 as N) (mg/L)
SW-GS1	7/12/2012	SGS1120712Q	77.9	0.0241	< 2 U	6.6 T	3.38	1100	2300	< 0.02 U	< 0.1 U	79.4	0.039 T	0.039 T
SW-MC	7/12/2012	SMC-120712Q	52.4	< 0.01 U	< 2 U	5.1 T	2.97	170	330	< 0.02 U	< 0.1 U	49	0.281	0.281
SW-N1	7/12/2012	SN1-120712Q	52.5	< 0.01 U	< 2 U	< 5 U	3.08	59	120	< 0.02 U	< 0.1 U	49.1	0.294	0.294
SW-N4	7/12/2012	SN4-120712Q	53.9	< 0.01 U	< 2 U	10 T	3.74	4	23	< 0.02 U	< 0.1 U	52.9	0.415	0.415
SW-S1	7/12/2012	SS1-120712Q	24.5	< 0.01 U	< 2 U	7.3 T	2.21	14	400	< 0.02 U	< 0.1 U	20.8	0.0522	0.0522
SW-S2	7/12/2012	SS2-120712Q	66.8	0.017 T	< 2 U	14 T	1.21	60	2200	< 0.02 U	< 0.1 U	65.1	< 0.01 U	< 0.01 U
SW-SLP1	7/24/2012	SLP1120724P		0.1	< 2 U			510	21000					
SW-SLP2	7/24/2012	SLP2120724P		0.014 T	< 2 U			19	230					
SW-SLP2	8/7/2012	SLP2120807P		0.0504	< 2 U			< 1 R	1500					
SW-SLP2	9/27/2012	SLP2120927P		< 0.01 U	< 2 U			6	440					
SW-W1	7/12/2012	SW1-120712Q	54.9	< 0.01 U	< 2 U	< 5 U	3.93	140	270	< 0.02 U	< 0.1 U	52	0.756	0.756
SW-W1	8/29/2012	SW1-120829M	66.1	< 0.01 U		8.7 T	4.15	7	190			60.8	1.02	1.02
SW-W1	9/19/2012	SW1-120919M	65.7	< 0.01 U		< 5 U	4.06	54	2500			63.1	1.19	1.19
SW-W2	7/12/2012	SW2-120712Q	25.6	< 0.01 U	< 2 U	24	2.05	23	500	< 0.02 U	< 0.1 U	23.6	< 0.01 U	< 0.01 U
Field Blank	7/24/2012	SLP2120724F		< 0.01 U	< 2 U			< 1 U	< 1 U					

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Conventionals Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Soluble Reactive Phosphorus (mg/L)	Phosphorus, Total (as P) (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Total Dissolved Solids (mg/L)	Total Kjeldahl Nitrogen (TKN as N) (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)	Turbidity (NTU)
SW-GS1	7/12/2012	SGS1120712Q	< 0.01 U		175	6.57	117	0.325	5.63	124	59.8	4.72
SW-MC	7/12/2012	SMC-120712Q	0.016 T		121	4.28	90	0.258	4.52	95	< 1 U	1.37
SW-N1	7/12/2012	SN1-120712Q	0.011 T		122	4.2	93	0.219	4.54	94	3.1	1.94
SW-N4	7/12/2012	SN4-120712Q	0.017 T		132	5.88	99	0.461	6.45	104	1.11	0.798
SW-S1	7/12/2012	SS1-120712Q	< 0.01 U		56.8	0.443	68	0.266	4.79	69	9	4.24
SW-S2	7/12/2012	SS2-120712Q	0.02 T		140	3.95	104	0.419	6.79	139	14.5	15.6
SW-SLP1	7/24/2012	SLP1120724P									6.7	12.3
SW-SLP2	7/24/2012	SLP2120724P									1.6 T	3.19
SW-SLP2	8/7/2012	SLP2120807P									3.6	4.34
SW-SLP2	9/27/2012	SLP2120927P									< 1 U	11.1
SW-W1	7/12/2012	SW1-120712Q	0.0299		134	4.86	99	0.2 T	3.22	100	2.6	1.72
SW-W1	8/29/2012	SW1-120829M	0.182 J		146	4.61	111	0.18 T	2.72	118	1.8 T	1.7
SW-W1	9/19/2012	SW1-120919M	0.023 T		162	4.88	111	0.19 T	3.45	116	1.5	0.561
SW-W2	7/12/2012	SW2-120712Q	< 0.01 U		59.2	0.55	54	0.647	4.67	68	8.6	5.37
Field Blank	7/24/2012	SLP2120724F									< 1 U	< 0.2 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Metal Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Aluminum, dissolved (mg/L)	Aluminum, total (mg/L)	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)
SW-GS1	7/12/2012	SGS1120712Q	< 0.02 U	2.89	< 0.001 U	< 0.001 U	< 0.001 U	0.0033	0.00562	0.0362	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-MC	7/12/2012	SMC-120712Q	< 0.02 U	0.0749	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00393	0.00464	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-N1	7/12/2012	SN1-120712O	< 0.02 U	0.093	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00421	0.00506	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-N4	7/12/2012	SN4-120712Q	< 0.02 U	< 0.02 U	< 0.001 U	< 0.001 U	0.00105	0.00102	0.00348	0.00404	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-S1	7/12/2012	SS1-120712Q	0.0531	0.215	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00834	0.0104	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-S2	7/12/2012	SS2-120712Q	0.0213	0.336	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.013	0.0163	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-SLP1	7/24/2012	SLP1120724P												
SW-SLP2	7/24/2012	SLP2120724P												
SW-SLP2	8/7/2012	SLP2120807P												
SW-SLP2	9/27/2012	SLP2120927P												
SW-W1	7/12/2012	SW1-120712O	< 0.02 U	0.0674	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00534	0.00649	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-W1	8/29/2012	SW1-120829M	< 0.02 U	0.0397	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00562	0.00621	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-W1	9/19/2012	SW1-120919M	< 0.02 DU	0.11	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.0055	0.00684	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
SW-W2	7/12/2012	SW2-120712Q	0.0456	1.5	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	0.00818	0.0176	< 0.001 U	< 0.001 U	< 0.002 U	< 0.002 U
Field Blank	7/24/2012	SLP2120724F												

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Metal Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Calcium, dissolved (mg/L)	Calcium, total (mg/L)	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)
SW-GS1	7/12/2012	SGS1120712Q	17.9	20.1	< 0.005 U	0.00511	< 0.003 U	0.00367	0.00203	0.0129	0.0683	5.17	< 0.001 U	0.00389
SW-MC	7/12/2012	SMC-120712Q	11.6	12.8	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.0606	0.128	< 0.001 U	< 0.001 U
SW-N1	7/12/2012	SN1-120712O	11.6	12.8	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.0793	0.177	< 0.001 U	< 0.001 U
SW-N4	7/12/2012	SN4-120712O	12.7	13.7	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	0.00432	0.00424	0.124	0.165	< 0.001 U	< 0.001 U
SW-S1	7/12/2012	SS1-120712Q	5.37	6.01	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.0789	0.217	< 0.001 U	< 0.001 U
SW-S2	7/12/2012	SS2-120712Q	15.8	17.2	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.48	1.51	< 0.001 U	< 0.001 U
SW-SLP1	7/24/2012	SLP1120724P								0.00453				
SW-SLP2	7/24/2012	SLP2120724P								< 0.002 U				
SW-SLP2	8/7/2012	SLP2120807P								< 0.002 U				
SW-SLP2	9/27/2012	SLP2120927P								< 0.002 U				
SW-W1	7/12/2012	SW1-120712O	12.6	13.6	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	0.046 T	0.136	< 0.001 U	< 0.001 U
SW-W1	8/29/2012	SW1-120829M	15.4 D	15.4	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.047 T	< 0.001 U	< 0.001 U
SW-W1	9/19/2012	SW1-120919M	14.4	16.1	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	< 0.002 U	< 0.01 U	0.136	< 0.001 U	< 0.001 U
SW-W2	7/12/2012	SW2-120712Q	5.86	6.73	< 0.005 U	< 0.005 U	< 0.003 U	< 0.003 U	< 0.002 U	0.00202	0.044 T	1.28	< 0.001 U	0.00207
Field Blank	7/24/2012	SLP2120724F								< 0.002 U				

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Metal Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Magnesium, dissolved (mg/L)	Magnesium, total (mg/L)	Manganese, dissolved (mg/L)	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-GS1	7/12/2012	SGS1120712Q	6.76	7.1	0.0834 D	1.65 D	< 0.0001 U	< 0.01 U	< 0.01 U	1.41	1.41 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-MC	7/12/2012	SMC-120712Q	4.25	4.17	0.00383 D	0.00677 D	< 0.0001 U	< 0.01 U	< 0.01 U	1.09	0.799 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-N1	7/12/2012	SN1-120712Q	4.32	4.16	0.0164 D	0.024 D	< 0.0001 U	< 0.01 U	< 0.01 U	1	0.79 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-N4	7/12/2012	SN4-120712Q	4.85	4.57	0.00496 D	0.0464 D	< 0.0001 U	< 0.01 U	< 0.01 U	3.13	1.79 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-S1	7/12/2012	SS1-120712Q	1.44	1.39	0.0384 D	0.0746 D	< 0.0001 U	< 0.01 U	< 0.01 U	0.41 T	0.4 DT	< 0.001 U	< 0.001 U	< 0.003 DU
SW-S2	7/12/2012	SS2-120712Q	5.43	5.37	0.263 D	0.356 D	< 0.0001 U	< 0.01 U	< 0.01 U	1.07	1.05 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-SLP1	7/24/2012	SLP1120724P												
SW-SLP2	7/24/2012	SLP2120724P												
SW-SLP2	8/7/2012	SLP2120807P												
SW-SLP2	9/27/2012	SLP2120927P												
SW-W1	7/12/2012	SW1-120712Q	4.46	4.35	< 0.001 DU	0.0168 D	< 0.0001 U	< 0.01 U	< 0.01 U	1.18	0.939 D	< 0.001 U	< 0.001 U	< 0.003 DU
SW-W1	8/29/2012	SW1-120829M	5.43 D	5.44	< 0.001 DU	0.00581	< 0.0001 U	< 0.01 U	< 0.01 U	1.31 D	1.01	< 0.001 U	< 0.001 U	< 0.003 DU
SW-W1	9/19/2012	SW1-120919M	5.9	5.55	< 0.001 U	0.0217 D	< 0.0001 U	< 0.01 U	< 0.01 U	0.987	1.07	< 0.001 U	< 0.001 U	< 0.003 U
SW-W2	7/12/2012	SW2-120712Q	1.54	1.64	0.013 D	0.179 D	< 0.0001 U	< 0.01 U	< 0.01 U	< 0.3 U	< 0.3 DU	< 0.001 U	< 0.001 U	< 0.003 DU
Field Blank	7/24/2012	SLP2120724F												

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Metal Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

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)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
SW-GS1	7/12/2012	SGS1120712Q	< 0.003 U	5.58	5.3	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	0.0107	< 0.004 U	0.0201
SW-MC	7/12/2012	SMC-120712Q	< 0.003 U	5.5	5.34	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
SW-N1	7/12/2012	SN1-120712O	< 0.003 U	5.58	5.36	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	0.00433	0.00438
SW-N4	7/12/2012	SN4-120712O	< 0.003 U	4.67	4.35	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	0.00964	0.0121
SW-S1	7/12/2012	SS1-120712Q	< 0.003 U	3.39	3.28	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
SW-S2	7/12/2012	SS2-120712Q	< 0.003 U	3.67	3.55	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	0.00499	0.00898
SW-SLP1	7/24/2012	SLP1120724P											0.0226
SW-SLP2	7/24/2012	SLP2120724P											0.0807
SW-SLP2	8/7/2012	SLP2120807P											0.0914
SW-SLP2	9/27/2012	SLP2120927P											0.0196
SW-W1	7/12/2012	SW1-120712O	< 0.003 U	6.43	6.23	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	< 0.002 U	< 0.004 U	0.00413
SW-W1	8/29/2012	SW1-120829M	< 0.003 U	5.99 D	5.84	< 0.001 U	< 0.001 U	< 0.01 U	< 0.01 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
SW-W1	9/19/2012	SW1-120919M	< 0.003 U	5.93	6.64	< 0.001 U	< 0.001 U	< 0.01 U	< 0.01 U	< 0.002 U	< 0.002 U	< 0.004 U	< 0.004 U
SW-W2	7/12/2012	SW2-120712Q	< 0.003 U	3.5	3.32	< 0.001 DU	< 0.001 U	< 0.01 DU	< 0.01 U	< 0.002 U	0.00278	< 0.004 U	0.0165
Field Blank	7/24/2012	SLP2120724F											< 0.004 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Surface Water Pesticide/Herbicide Analytical Data
Contact Person: Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	2,4,5-T	2,4,5-TP	2,4-D	Dinoseb	Endrin	Lindane	Methoxy-chlor	Toxaphene	4-Methyl-phenol	alpha Terpineol	Benzoic Acid	Phenol
			93-76-5 (ug/L)	93-72-1 (ug/L)	94-75-7 (ug/L)	88-85-7 (ug/L)	72-20-8 (ug/L)	58-89-9 (ug/L)	72-43-5 (ug/L)	8001-35-2 (ug/L)	106-44-5 (ug/L)	98-55-5 (ug/L)	65-85-0 (ug/L)	108-95-2 (ug/L)
SW-GS1	7/12/2012	SGS1120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-MC	7/12/2012	SMC-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N1	7/12/2012	SN1-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-N4	7/12/2012	SN4-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S1	7/12/2012	SS1-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-S2	7/12/2012	SS2-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
SW-SLP1	7/24/2012	SLP1120724P										< 5 U	< 50 JU	< 4 U
SW-SLP2	7/24/2012	SLP2120724P										< 5 U	< 50 U	< 4 U
SW-SLP2	8/7/2012	SLP2120807P										< 5 U	< 50 U	< 4 U
SW-SLP2	9/27/2012	SLP2120927P												
SW-W1	7/12/2012	SW1-120712Q												
SW-W1	8/29/2012	SW1-120829M												
SW-W1	9/19/2012	SW1-120919M												
SW-W2	7/12/2012	SW2-120712Q	< 2 U	< 1 U	< 5 U	< 1 U	< 0.1 U	< 0.025 U	< 2 U	< 2.5 U				
Field Blank	7/24/2012	SLP2120724F										< 5 U	< 50 U	< 4 U

Leachate Analytical Data

Leachate Monitoring Activities 3rd Quarter 2012

Station ID	Date	Activity	Sample ID	Comment
API	7/11/12	Monthly Characterization Sample	LAPI120711M	
API	8/8/12	Monthly Characterization Sample	LAPI120808M	
API	9/5/12	Monthly Characterization Sample	LAPI120905M	
LEPS	7/11/12	Monthly Characterization Sample	LEPS120711M	
LEPS	7/11/12	Permit Samle	LEPS120711P	
LEPS	7/25/12	Permit Samle	LEPS120725P	
LEPS	8/8/12	Monthly Characterization Sample	LEPS120808M	
LEPS	8/8/12	Permit Sample	LEPS120808P	
LEPS	8/22/12	Permit Sample	LEPS120822P	
LEPS	8/8/12	QA/QC Sample	LEPS120808D	Field Duplicate
LEPS	9/5/12	Monthly Characterization Sample	LEPS120905M	
LEPS	9/5/12	Permit Sample	LEPS120905P	
LEPS	9/19/12	Permit Sample	LEPS120919P	
MH-46N	7/11/12	Monthly Characterization Sample	L46N12711M	
MH-46N	8/8/12	Monthly Characterization Sample	L46N120808M	
MH-46N	9/5/12	Monthly Characterization Sample	L46N120905M	
PS2A	7/11/12	Monthly Characterization Sample	LP2A120711M	
PS2A	8/8/12	Monthly Characterization Sample	LP2A120808M	
PS2A	9/5/12	Monthly Characterization Sample	LP2A120905M	
Field Blank	8/8/12	QA/QC Sample	LAPI120808F	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Field Parameters
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (o C)
LS-API	7/11/2012	LAPI120711M	7.78	9700	15.6
LS-API	8/8/2012	LAPI120808M	8	14000	15.4
LS-API	9/5/2012	LAPI120905M	8.13	9100	12.5
LS-LEPS	7/11/2012	LEPS120711M	8.47	4400	17.3
LS-LEPS	7/11/2012	LEPS120711P	8.47	4400	17.3
LS-LEPS	7/25/2012	LEPS120725P	8.54	5300	17
LS-LEPS	8/8/2012	LEPS120808M	8.87	6250	15.3
LS-LEPS	8/8/2012	LEPS120808P	8.87	6250	15.3
LS-LEPS	8/22/2012	LEPS120822P	8.51	6600	16
LS-LEPS	9/5/2012	LEPS120905M	8.48	6900	15.2
LS-LEPS	9/5/2012	LEPS120905P	8.48	6900	15.2
LS-LEPS	9/19/2012	LEPS120919P	8.43	7100	16.2
LS-MH46N	7/11/2012	L46N120404M	7.33	7700	29.2
LS-MH46N	8/8/2012	L46N120503M	7.3	10200	26
LS-MH46N	9/5/2012	L46N120613M	7.33	11300	22.2
LS-PS2A	7/11/2012	LP2A120711M	7.34	2800	13.9
LS-PS2A	8/8/2012	LP2A120808M	7.34	1850	14.6
LS-PS2A	9/5/2012	LP2A120905M	7.31	2900	13.1
FIELD BLANK	8/8/2012	LAPI120808F	5.44	7.3	18.1

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Conventionals Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Alkalinity, Total (CaCO3) (mg/L)	Ammonia, (NH3 as N) (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)	Nitrate+Nitrite (NO3+NO2 as N) (mg/L)	Soluble Reactive Phosphorus (mg/L)	Phosphorus, Total (as P) (mg/L)
LS-API	7/11/2012	LAPI120711M	6080	1150	2360	7030	1400	120000	660000	< 0.02 SU	< 0.1 U	0.0832	1.03	
LS-API	8/8/2012	LAPI120808M	8050	1360	3180	7680 S	1910	120000	2100000	< 0.02 SU	< 0.1 U	0.067 T	1.7	
LS-API	9/5/2012	LAPI120905M	8440	1610	3730	8340 S	2000	250000	2100000	< 0.02 SU	< 0.1 U	0.077 T	2.99	
LS-LEPS	7/11/2012	LEPS120711M	1920	304	112	792	484	2900	44000	< 0.02 SU	< 0.1 U	0.032 T	0.023 T	
LS-LEPS	8/8/2012	LEPS120808M	2830	408	66.6	997	837	1100	740000	< 0.02 SU	< 0.1 U	0.106	0.609	
LS-LEPS	9/5/2012	LEPS120905M	2080	281	172	1300	1070	< 1 U	59000	0.023 ST	1	154	0.254	
LS-MH46N	7/11/2012	L46N120711M	3070	625	56.6	1600	1520	29	2000	< 0.02 SU	< 0.1 U	0.992	2.85	
LS-MH46N	8/8/2012	L46N120808M	3290	610	88	1740 S	1740	< 1 U	< 1 U	< 0.02 SU	< 0.1 U	0.749	2.85	
LS-MH46N	9/5/2012	L46N120905M	3420	665	116	1660	1710	< 1 U	14	0.021 ST	< 0.1 U	3.08	2.75	
LS-PS2A	7/11/2012	LP2A120711M	1190	281	873	1070	404	< 1 U	7000	< 0.02 SU	< 0.1 U	0.028 T	0.394	
LS-PS2A	8/8/2012	LP2A120808M	572	109	33.8	251	143	2	1000	< 0.02 U	< 0.1 U	0.0494	0.172	
LS-PS2A	9/5/2012	LP2A120905M	1900	231	24.4 L	314	254	4000	210000	< 0.02 SU	0.654	0.703	0.351	
FIELD BLANK	8/8/2012	LAPI120808F	1.7 T	< 0.01 U	< 2 U	< 5 U	0.506	< 1 U	< 1 U	< 0.02 U	< 0.1 U	0.0829	< 0.01 U	

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Conventionals Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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)	Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Volatile Suspended Solids (mg/L)
LS-API	7/11/2012	LAPI120711M	12200	56.7	1.8	< 2 U	1110	2370 S	148	4200	101
LS-API	8/8/2012	LAPI120808M	16000	36.2	2.06	< 2 U	1540 S	2340 S	122	4090	79
LS-API	9/5/2012	LAPI120905M	19800	33.1	1.35	5.7	1960 S	2560 S	67	4310	48
LS-LEPS	7/11/2012	LEPS120711M	4450	39.9	0.12 T	5.6	309	169	262	924	204
LS-LEPS	8/8/2012	LEPS120808M	6350	48.2	0.14 T	6.9	447	244 S	368	1140	224
LS-LEPS	9/5/2012	LEPS120905M	7810	63.1	< 0.01 U	< 2 U	351	335	238	2110	196
LS-MH46N	7/11/2012	L46N120711M	8960	15.2	0.408	< 2 U	601	535 S	26.8	1490	20.8
LS-MH46N	8/8/2012	L46N120808M	9910	1.8	0.11 T	< 2 U	659 S	528 S	13.8	1240	10.2
LS-MH46N	9/5/2012	L46N120905M	11500	8.82	0.11 T	< 2 U	700	568 S	142	1320	112
LS-PS2A	7/11/2012	LP2A120711M	3600	2.82	2.28	< 2 GU	252	379	5.8	928	5.2
LS-PS2A	8/8/2012	LP2A120808M	1650	60	0.0675	< 2 U	131	75.1	6.7	230 B	6.1
LS-PS2A	9/5/2012	LP2A120905M	6080	214	1.59	< 2 GU	233	104	9.4	279	8
FIELD BLANK	8/8/2012	LAPI120808F	4.5 T	< 0.1 U	< 0.01 U	< 2 U	< 0.1 U	< 1 U	< 1 U	20.9 B	< 1 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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	7/11/2012	LAPI120711M	0.503	< 0.001 U	0.12 T	0.235	< 0.001 U	< 0.002 U	333	0.136	0.0474	0.009 T	33.6	< 0.001 U
LS-API	8/8/2012	LAPI120808M	0.881	0.023 T	0.197	0.329	< 0.001 U	< 0.002 U	347	0.197	0.0867	0.0568	93.7	< 0.001 U
LS-API	9/5/2012	LAPI120905M	0.568	0.021 T	0.202	0.262	< 0.001 U	< 0.002 U	334	0.201	0.0564	0.011 T	24.4	< 0.001 U
LS-LEPS	7/11/2012	LEPS120711M	1.32	< 0.001 U	0.041 T	0.0721	< 0.001 U	< 0.002 U	69	0.0393	0.0182	0.0088 T	9.76	< 0.001 U
LS-LEPS	7/11/2012	LEPS120711P			0.043 T			< 0.002 U		0.0389		0.0097 T		< 0.001 U
LS-LEPS	7/25/2012	LEPS120725P			0.056 T			< 0.002 U		0.0477		0.0052 T		< 0.001 U
LS-LEPS	8/8/2012	LEPS120808M	4.09	0.016 T	0.079 T	0.111	< 0.001 U	< 0.002 U	93.7	0.0704	0.0285	0.0201	14	< 0.001 U
LS-LEPS	8/8/2012	LEPS120808P			0.069 T			< 0.002 U		0.0607		0.0099 T		< 0.001 U
LS-LEPS	8/22/2012	LEPS120822P			0.089 T			< 0.002 U		0.0613		0.0095 T		< 0.001 U
LS-LEPS	9/5/2012	LEPS120905M	2.52	< 0.001 U	0.097 T	0.125	< 0.001 U	< 0.002 U	109	0.0833	0.032	0.0202	12.7	< 0.001 U
LS-LEPS	9/5/2012	LEPS120905D			0.084 T			< 0.002 U		0.0741		0.0082 T		< 0.001 U
LS-LEPS	9/5/2012	LEPS120905P			0.088 T			< 0.002 U		0.0717		0.007 T		< 0.001 U
LS-LEPS	9/19/2012	LEPS120919P			0.094 T			< 0.002 U		0.0843		0.0078 T		< 0.001 U
LS-MH46N	7/11/2012	L46N120711M	0.519	< 0.001 U	0.092 T	0.373	< 0.001 U	< 0.002 U	87.4	0.0866	0.031	0.015 T	6.16	< 0.001 U
LS-MH46N	8/8/2012	L46N120808M	0.15 T	< 0.001 U	0.084 T	0.398	< 0.001 U	< 0.002 U	91	0.0946	0.0319	< 0.002 U	2.61	< 0.001 U
LS-MH46N	9/5/2012	L46N120905M	< 0.02 U	< 0.001 U	0.084 T	0.427	< 0.001 U	< 0.002 U	91.3	0.0998	0.0349	< 0.002 U	2.3	< 0.001 U
LS-PS2A	7/11/2012	LP2A120711M	0.11 T	< 0.001 U	< 0.001 U	0.0417	< 0.001 U	< 0.002 U	21.5	0.0176	0.011 T	0.019 T	2.34	< 0.001 U
LS-PS2A	8/8/2012	LP2A120808M	< 0.02 U	< 0.001 U	< 0.001 U	0.0353	< 0.001 U	< 0.002 U	22.9	0.0063 T	0.0058 T	0.011 T	2.51	< 0.001 U
LS-PS2A	9/5/2012	LP2A120905M	0.22 T	0.028 T	0.077 T	0.0931	< 0.001 U	< 0.002 U	44	0.0461	0.0339	0.0557	7.12	< 0.001 U
FIELD BLANK	8/8/2012	LAPI120808F	< 0.02 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.002 U	< 0.01 U	< 0.005 U	< 0.003 U	< 0.002 U	< 0.01 U	< 0.001 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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	7/11/2012	LAPI120711M	127	4.56	< 0.0001 U	0.274	516 D	< 0.001 U	< 0.003 U	1460	< 0.001 U	0.025 T	0.0557	1.22
LS-API	8/8/2012	LAPI120808M	159	5.13	< 0.0001 U	0.401	715 D	< 0.001 U	< 0.003 U	1800	< 0.001 U	0.041 T	0.0862	1.77
LS-API	9/5/2012	LAPI120905M	168	4.31	< 0.0001 U	0.362	736 D	< 0.001 U	< 0.003 U	2010	< 0.001 U	0.049 T	0.0824	1.19
LS-LEPS	7/11/2012	LEPS120711M	45.9	0.549	< 0.0001 U	0.0958	172	< 0.001 U	< 0.003 U	482	< 0.001 U	< 0.01 U	0.021 T	0.249
LS-LEPS	7/11/2012	LEPS120711P				0.0941			< 0.003 U					0.252
LS-LEPS	7/25/2012	LEPS120725P				0.114			< 0.003 U					0.181
LS-LEPS	8/8/2012	LEPS120808M	70.3	1.2	< 0.0001 U	0.153	256	< 0.001 U	< 0.003 U	756	< 0.001 U	< 0.01 U	0.045 T	0.427
LS-LEPS	8/8/2012	LEPS120808P				0.145			< 0.003 U					0.188
LS-LEPS	8/22/2012	LEPS120822P				0.161			< 0.003 U					0.224
LS-LEPS	9/5/2012	LEPS120905M	81.7	1.35	< 0.0001 U	0.184	341	< 0.001 U	< 0.003 U	969	< 0.001 U	< 0.01 U	0.049 T	0.449
LS-LEPS	9/5/2012	LEPS120905D				0.183			< 0.003 U					0.239
LS-LEPS	9/5/2012	LEPS120905P				0.185			< 0.003 U					0.238
LS-LEPS	9/19/2012	LEPS120919P				0.199			< 0.003 U					0.268
LS-MH46N	7/11/2012	L46N120711M	55	0.589	< 0.0001 U	0.143	349	< 0.001 U	< 0.003 U	1110	< 0.001 U	< 0.01 U	0.117	0.254
LS-MH46N	8/8/2012	L46N120808M	59.1	0.532	< 0.0001 U	0.155	343	< 0.001 U	< 0.003 U	1150	< 0.001 U	< 0.01 U	0.135	0.0517
LS-MH46N	9/5/2012	L46N120905M	60.6	0.5	< 0.0001 U	0.154	375	< 0.001 U	< 0.003 U	1220	< 0.001 U	< 0.01 U	0.141	0.025 T
LS-PS2A	7/11/2012	LP2A120711M	11.2	0.416	< 0.0001 U	0.0505	97.1	< 0.001 U	< 0.003 U	308	< 0.001 U	0.033 T	< 0.002 U	0.019 T
LS-PS2A	8/8/2012	LP2A120808M	10.8	0.593	< 0.0001 U	0.04	50.8	< 0.001 U	< 0.003 U	130	< 0.001 U	< 0.01 U	< 0.002 U	0.0097 T
LS-PS2A	9/5/2012	LP2A120905M	23.9	1.5	< 0.0001 U	0.124	186	< 0.001 U	< 0.003 U	632	< 0.001 U	0.112	0.017 T	0.108
FIELD BLANK	8/8/2012	LAPI120808F	1.68	< 0.001 U	< 0.0001 U	< 0.01 U	< 0.3 U	< 0.001 U	< 0.003 U	0.61 T	< 0.001 U	< 0.01 U	< 0.002 U	0.018 T

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate VOA Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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	7/11/2012	LAPI120711M	< 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	9.05
LS-API	8/8/2012	LAPI120808M	< 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	8.43
LS-API	9/5/2012	LAPI120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 1 U	< 0.2 U	< 0.2 GU	7.4 T
LS-LEPS	7/11/2012	LEPS120711M	< 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	8/8/2012	LEPS120808M	< 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	9/5/2012	LEPS120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 1 U	< 0.2 U	< 0.2 GU	< 0.2 U
LS-MH46N	7/11/2012	L46N120711M	< 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	8/8/2012	L46N120808M	< 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	9/5/2012	L46N120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 1 U	< 0.2 U	< 0.2 GU	< 0.2 U
LS-PS2A	7/11/2012	LP2A120711M	< 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	8/8/2012	LP2A120808M	< 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	9/5/2012	LP2A120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 1 U	< 0.2 U	< 0.2 GU	< 0.2 U
FIELD BLANK	8/8/2012	LAPI120808F	< 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	7/10/2012	VTRP120711B	< 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	7/10/2012	VTRP120711C	< 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	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 1 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	9/4/2012	VTRP120905B	< 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	9/4/2012	VTRP120905C	< 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 July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate VOA Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	1,2-Dichloro-propane 78-87-5 (ug/L)	1,3 Dichloro-benzene 541-73-1 (ug/L)	1,3-Dichloro-propane 142-28-9 (ug/L)	1,4-Dichloro-benzene 106-46-7 (ug/L)	2,2-Dichloro-propane 594-20-7 (ug/L)	2-Butanone 78-93-3 (ug/L)	2-Hexanone 591-78-6 (ug/L)	2-Methyl-1-propanol 78-83-1 (ug/L)	3-Chloro-propene 107-05-1 (ug/L)	4-Methyl-2-Pentanone 108-10-1 (ug/L)	Acetone 67-64-1 (ug/L)	Acetonitrile 75-05-8 (ug/L)
LS-API	7/11/2012	LAPI120711M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	20700 D	22 T	716	< 10 U	57.8	33500 D	229
LS-API	8/8/2012	LAPI120808M	< 0.2 U	< 0.2 U	< 0.2 U	2.1 T	< 0.2 U	20300 D	22 T	321	< 10 U	62.6	18700 D	185
LS-API	9/5/2012	LAPI120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU	8820 D	55 T	< 100 LU	< 10 GU	80 T	11700 DL	312 L
LS-LEPS	7/11/2012	LEPS120711M	< 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	162	< 100 U
LS-LEPS	8/8/2012	LEPS120808M	< 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	33 T	< 100 U
LS-LEPS	9/5/2012	LEPS120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU	< 4 U	< 4 U	< 100 LU	< 10 GU	< 4 U	213 L	< 100 LU
LS-MH46N	7/11/2012	L46N120711M	< 0.2 U	< 0.2 U	< 0.2 U	8.67	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	93.4	< 100 U
LS-MH46N	8/8/2012	L46N120808M	< 0.2 U	< 0.2 U	< 0.2 U	6.35	< 0.2 U	< 4 U	< 4 U	< 100 U	< 10 U	< 4 U	48	< 100 U
LS-MH46N	9/5/2012	L46N120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	7.5 GT	< 0.2 GU	< 4 U	< 4 U	< 100 LU	< 10 GU	< 4 U	151 L	< 100 LU
LS-PS2A	7/11/2012	LP2A120711M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	3600 D	< 4 U	< 100 U	< 10 U	< 4 U	5560 D	< 100 U
LS-PS2A	8/8/2012	LP2A120808M	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	43.2 L	< 4 U	< 100 U	< 10 U	< 4 U	35 LT	< 100 U
LS-PS2A	9/5/2012	LP2A120905M	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU	< 4 U	< 4 U	< 100 LU	< 10 GU	< 4 U	99 LT	< 100 LU
FIELD BLANK	8/8/2012	LAPI120808F	< 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	6.4 B	< 100 U
VOA TRIP BLANK	7/10/2012	VTRP120711B	< 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	7/10/2012	VTRP120711C	< 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	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 4 HU	< 4 HU	< 100 HU	< 10 HU	< 4 HU	< 4 HU	< 100 HU
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	9/4/2012	VTRP120905B	< 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	9/4/2012	VTRP120905C	< 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	4.59	< 100 U

Environmental Monitoring Data

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Cedar Hills Landfill --- Leachate VOA Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Acrolein	Acrylonitrile	Benzene	Bromochloro-methane	Bromodichloro-methane	Bromoform	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane
			107-02-8 (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)	56-23-5 (ug/L)	108-90-7 (ug/L)	124-48-1 (ug/L)	75-00-3 (ug/L)
LS-API	7/11/2012	LAPI120711M	< 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	< 0.2 U
LS-API	8/8/2012	LAPI120808M	< 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	< 0.2 U
LS-API	9/5/2012	LAPI120905M	< 10 U	< 0.07 LU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU
LS-LEPS	7/11/2012	LEPS120711M	< 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	< 0.2 U
LS-LEPS	8/8/2012	LEPS120808M	< 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	< 0.2 U
LS-LEPS	9/5/2012	LEPS120905M	< 10 U	< 0.07 LU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	9.9 T	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU
LS-MH46N	7/11/2012	L46N120711M	< 10 U	< 0.07 U	2.5 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	< 0.2 U
LS-MH46N	8/8/2012	L46N120808M	< 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	< 0.2 U
LS-MH46N	9/5/2012	L46N120905M	< 10 U	< 0.07 LU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU
LS-PS2A	7/11/2012	LP2A120711M	< 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	< 0.2 U
LS-PS2A	8/8/2012	LP2A120808M	< 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	< 0.2 U
LS-PS2A	9/5/2012	LP2A120905M	< 10 U	< 0.07 LU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 GU	< 0.2 GU
FIELD BLANK	8/8/2012	LAPI120808F	< 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	< 0.2 U
VOA TRIP BLANK	7/10/2012	VTRP120711B	< 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	< 0.2 U
VOA TRIP BLANK	7/10/2012	VTRP120711C	< 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	< 0.2 U
VOA TRIP BLANK	8/7/2012	VTRP120808B	< 10 HU	< 0.07 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	< 0.2 U
VOA TRIP BLANK	9/4/2012	VTRP120905B	< 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	< 0.2 U
VOA TRIP BLANK	9/4/2012	VTRP120905C	< 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	< 0.2 U

Environmental Monitoring Data

Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate VOA Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Chloroform	Chloro-methane	Chloroprene	cis-1,2-Dichloro-ethene	cis-1,3-Dichloro-propene	Dibromo-methane	Dichloro-difluoro-methane	Ethylbenzene	m & p Xylenes	Methyl Iodide	Methyl Methacrylate	Methylacrylo-nitrile
			67-66-3 (ug/L)	74-87-3 (ug/L)	126-99-8 (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)	mpx (ug/L)	74-88-4 (ug/L)	80-62-6 (ug/L)	126-98-7 (ug/L)
LS-API	7/11/2012	LAPI120711M	< 0.2 U	< 0.2 U	< 20 U	2.3 T	< 0.2 U	< 0.2 U	< 0.2 U	4.16	10.6	< 0.2 U	< 2 U	< 5 U
LS-API	8/8/2012	LAPI120808M	< 0.2 U	< 0.2 U	< 20 U	2.4 T	< 0.2 U	< 0.2 U	< 0.2 U	4.47	11.3	< 0.2 U	< 2 U	< 5 U
LS-API	9/5/2012	LAPI120905M	< 0.2 GU	< 0.2 GU	< 20 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	8.3 GT	< 0.2 U	< 2 U	< 5 U
LS-LEPS	7/11/2012	LEPS120711M	< 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	< 2 U	< 5 U
LS-LEPS	8/8/2012	LEPS120808M	< 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	< 2 U	< 5 U
LS-LEPS	9/5/2012	LEPS120905M	< 0.2 GU	52.3 G	< 20 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 U	< 2 U	< 5 U
LS-MH46N	7/11/2012	L46N120711M	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	32.4	42.5	< 0.2 U	< 2 U	< 5 U
LS-MH46N	8/8/2012	L46N120808M	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	27	33.4	< 0.2 U	< 2 U	< 5 U
LS-MH46N	9/5/2012	L46N120905M	< 0.2 GU	< 0.2 GU	< 20 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	30.1 G	33.9 G	< 0.2 U	< 2 U	< 5 U
LS-PS2A	7/11/2012	LP2A120711M	< 0.2 U	< 0.2 U	< 20 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	2.7 T	6.32	< 0.2 U	< 2 U	< 5 U
LS-PS2A	8/8/2012	LP2A120808M	< 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	< 2 U	< 5 U
LS-PS2A	9/5/2012	LP2A120905M	< 0.2 GU	< 0.2 GU	< 20 GU	< 0.2 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 U	< 2 U	< 5 U
FIELD BLANK	8/8/2012	LAPI120808F	< 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	< 2 U	< 5 U
VOA TRIP BLANK	7/10/2012	VTRP120711B	< 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	< 2 U	< 5 U
VOA TRIP BLANK	7/10/2012	VTRP120711C	< 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	< 2 U	< 5 U
VOA TRIP BLANK	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 20 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 2 HU	< 5 HU
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	< 2 U	< 5 U
VOA TRIP BLANK	9/4/2012	VTRP120905B	< 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	< 2 U	< 5 U
VOA TRIP BLANK	9/4/2012	VTRP120905C	< 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	< 2 U	< 5 U

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Cedar Hills Landfill --- Leachate VOA Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

Site	Date	Sample ID	Methylene Chloride	o-Xylene	Proprionitrile	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
			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)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
LS-API	7/11/2012	LAPI120711M	24.4	5.1	< 60 U	< 0.2 U	< 0.2 U	26.9	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	0.274
LS-API	8/8/2012	LAPI120808M	18.8	5.54	< 60 U	< 0.2 U	< 0.2 U	29.2	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	0.425
LS-API	9/5/2012	LAPI120905M	26	< 0.2 GU	< 60 U	< 0.2 U	< 0.2 GU	15.3 G	< 0.2 GU	< 0.2 GU	< 100 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.02 GU
LS-LEPS	7/11/2012	LEPS120711M	12.4	< 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	< 0.2 U	< 0.2 U	< 0.02 U
LS-LEPS	8/8/2012	LEPS120808M	11.9	< 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	< 0.2 U	< 0.2 U	< 0.02 U
LS-LEPS	9/5/2012	LEPS120905M	22.1	< 0.2 GU	< 60 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 100 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.02 GU
LS-MH46N	7/11/2012	L46N120711M	11.6	4.22	< 60 U	< 0.2 U	< 0.2 U	3.9 T	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	1.68
LS-MH46N	8/8/2012	L46N120808M	11.9	3 T	< 60 U	< 0.2 U	< 0.2 U	3.1 T	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	1.94
LS-MH46N	9/5/2012	L46N120905M	22.1	< 0.2 GU	< 60 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 100 GU	< 0.2 GU	< 0.2 U	< 0.2 U	1.78 G
LS-PS2A	7/11/2012	LP2A120711M	11.7	2.4 T	< 60 U	< 0.2 U	< 0.2 U	10.4	< 0.2 U	< 0.2 U	< 100 U	< 0.2 U	< 0.2 U	< 0.2 U	0.261
LS-PS2A	8/8/2012	LP2A120808M	12.4	< 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	< 0.2 U	< 0.2 U	0.17 T
LS-PS2A	9/5/2012	LP2A120905M	23.9	< 0.2 GU	< 60 U	< 0.2 U	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 0.2 GU	< 100 GU	< 0.2 GU	< 0.2 U	< 0.2 U	< 0.02 GU
FIELD BLANK	8/8/2012	LAPI120808F	< 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	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	7/10/2012	VTRP120711B	< 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	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	7/10/2012	VTRP120711C	< 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	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	8/7/2012	VTRP120808B	< 0.2 HU	< 0.2 HU	< 60 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 100 HU	< 0.2 HU	< 0.2 HU	< 0.2 HU	< 0.02 HU
VOA TRIP BLANK	8/7/2012	VTRP120808C	< 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	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	9/4/2012	VTRP120905B	< 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	< 0.2 U	< 0.2 U	< 0.02 U
VOA TRIP BLANK	9/4/2012	VTRP120905C	< 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	< 0.2 U	< 0.2 U	< 0.02 U

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Cedar Hills Landfill --- Leachate Pesticide/Herbicide Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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	7/11/2012	LAPI120711M	< 2 U	1.1 T	< 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	8/8/2012	LAPI120808M	< 2 U	1.2 T	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.01 GU	< 0.01 GU	< 0.01 GU
LS-API	9/5/2012	LAPI120905M	< 2 U	< 1 U	< 5 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.01 U	< 0.01 U	< 0.01 U
LS-LEPS	7/11/2012	LEPS120711M	< 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	8/8/2012	LEPS120808M	< 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	9/5/2012	LEPS120905M	< 2 U	< 1 U	< 5 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.01 U	< 0.01 U	< 0.01 U
LS-MH46N	7/11/2012	L46N120711M	< 2 U	1.6 T	< 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	8/8/2012	L46N120808M	< 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	9/5/2012	L46N120905M	< 2 U	4 T	< 5 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	7/11/2012	LP2A120711M	< 2 U	1.4 T	< 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	8/8/2012	LP2A120808M	< 2 U	1.5 T	< 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	9/5/2012	LP2A120905M	< 2 U	1.1 T	< 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
FIELD BLANK	8/8/2012	LAPI120808F	< 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

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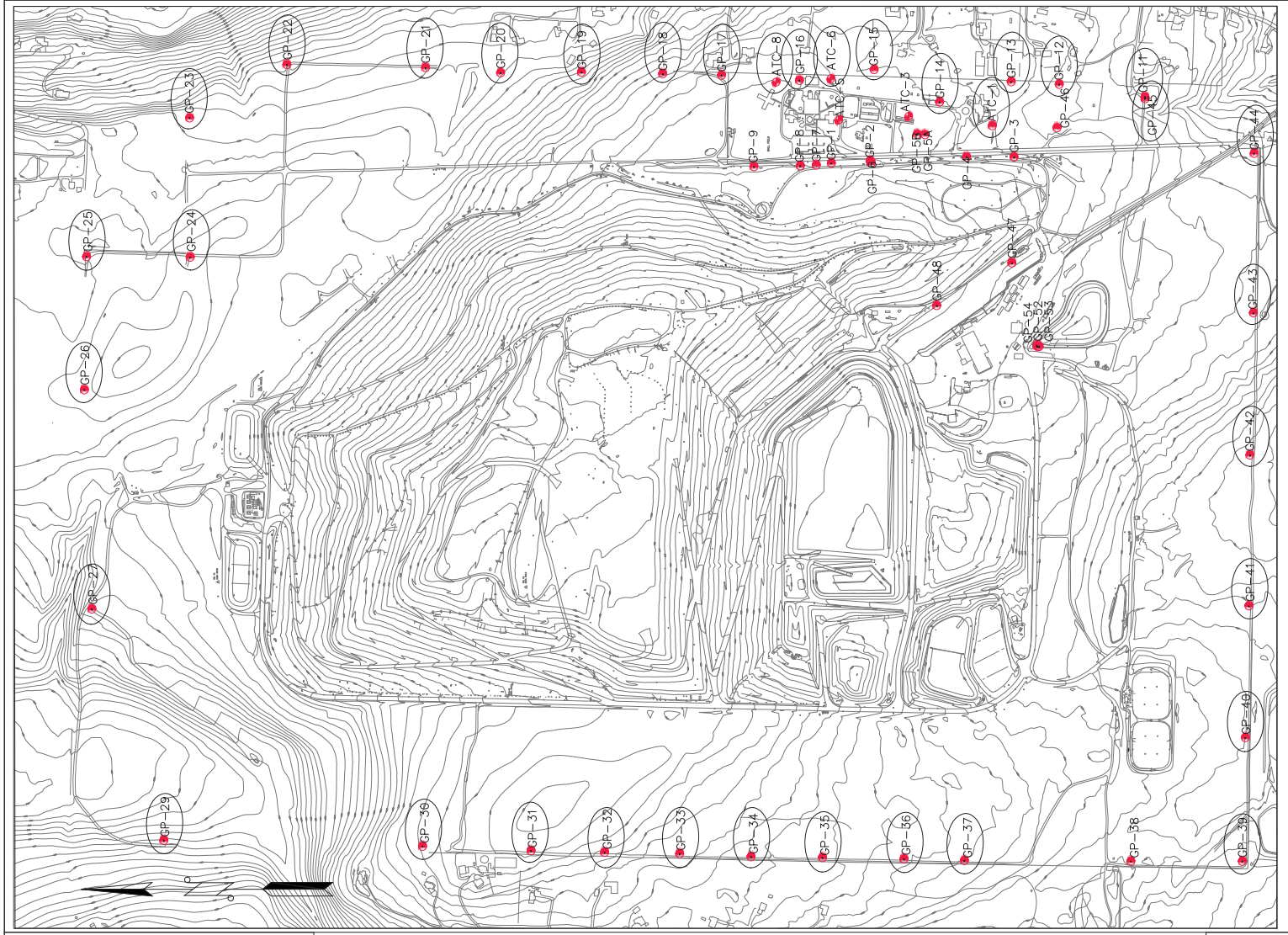
Site	Date	Sample ID	Aroclor 1242 53469-21-9 (ug/L)	Aroclor 1248 12672-29-6 (ug/L)	Aroclor 1254 11097-69-1 (ug/L)	Aroclor 1260 11096-82-5 (ug/L)	Beta BHC 319-85-7 (ug/L)	Delta BHC 319-86-8 (ug/L)	Dieldrin 60-57-1 (ug/L)	Dinoseb 88-85-7 (ug/L)	Endo-sulfan I 959-98-8 (ug/L)	Endo-sulfan II 33213-65-9 (ug/L)	Endo-sulfan Sulfate 1031-07-8 (ug/L)	Endrin 72-20-8 (ug/L)
LS-API	7/11/2012	LAPI120711M	< 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	8/8/2012	LAPI120808M	< 0.01 GU	< 0.01 GU	< 0.01 GU	< 0.01 GU	< 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	9/5/2012	LAPI120905M	< 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	7/11/2012	LEPS120711M	< 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	8/8/2012	LEPS120808M	< 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	9/5/2012	LEPS120905M	< 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	7/11/2012	L46N120711M	< 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	8/8/2012	L46N120808M	< 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	9/5/2012	L46N120905M	< 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	7/11/2012	LP2A120711M	0.148	< 0.01 U	0.069 T	0.027 T	< 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	8/8/2012	LP2A120808M	0.112	< 0.01 U	0.033 T	< 0.01 U	< 0.025 U	< 0.1 U	< 0.1 U	< 1 GU	< 0.1 U	< 0.1 U	< 0.5 U	< 0.1 U
LS-PS2A	9/5/2012	LP2A120905M	0.173	< 0.01 U	0.047 T	< 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
FIELD BLANK	8/8/2012	LAPI120808F	< 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

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Data Collected from July 1, 2012 to September 30, 2012
Cedar Hills Landfill --- Leachate Pesticide/Herbicide Analytical Data
Contact Person --- Sendy Jimenez (206) 296-4411

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	7/11/2012	LAPI120711M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-API	8/8/2012	LAPI120808M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-API	9/5/2012	LAPI120905M	< 0.2 GU	< 0.025 GU	< 0.025 U	< 10 U	< 0.025 U	< 2 GU	< 2.5 U
LS-LEPS	7/11/2012	LEPS120711M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-LEPS	8/8/2012	LEPS120808M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-LEPS	9/5/2012	LEPS120905M	< 0.2 GU	< 0.025 GU	< 0.025 U	< 10 U	< 0.025 U	< 2 GU	< 2.5 U
LS-MH46N	7/11/2012	L46N120711M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-MH46N	8/8/2012	L46N120808M	< 0.2 GU	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-MH46N	9/5/2012	L46N120905M	< 0.2 GU	< 0.025 GU	< 0.025 U	< 10 U	< 0.025 U	< 2 GU	< 2.5 U
LS-PS2A	7/11/2012	LP2A120711M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-PS2A	8/8/2012	LP2A120808M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
LS-PS2A	9/5/2012	LP2A120905M	< 0.2 U	< 0.025 U	< 0.025 U	< 10 U	< 0.025 U	< 2 U	< 2.5 U
FIELD BLANK	8/8/2012	LAPI120808F	< 0.2 U	< 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	1,697,308.06	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
170,063.32	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	1,697,252.06	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

LEGEND

INTERIOR LFG MONITORING PROBES

LFG MIGRATION MONITORING PROBES

DATE	REVISION	BY

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

S:\CAD\Cedarhl\"gas--prob--loc"\gll--lfg--loc2006_GasProbeOnly.dwg

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.02
Bar Stop: 30.10
Amb. Temp: 60 F
Tech: DB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chatc01D	7/18/2012 11:06	0.0	0.1	20.9	0	0.25	
Chatc01S	7/18/2012 11:05	0.0	0.1	20.8	0	0.08	
Chatc06D	7/18/2012 12:09	0.0	0.5	13.7	0	-0.07	
Chatc06S	7/18/2012 12:08	0.0	2.6	18.3	0	0.01	
Chatc08D	7/18/2012 12:20	0.0	0.4	20.2	0	-0.01	
Chatc08S	7/18/2012 12:19	0.0	4.2	15.6	0	0	
Chgp011A	7/18/2012 10:53	0.0	0.4	20.1	0	0.12	
Chgp011B	7/18/2012 10:55	0.0	0.0	20.8	0	-0.94	
Chgp011C	7/18/2012 10:56	0.0	0.0	20.8	0	-0.8	
Chgp011D	7/18/2012 10:58	0.0	0.1	20.7	0	0.03	
Chgp012A	7/18/2012 11:14	0.0	0.1	21.0	0	0	
Chgp012B	7/18/2012 11:16	0.0	0.0	21.0	0	0.02	
Chgp012C	7/18/2012 11:18	0.0	0.2	19.6	0	0.04	
Chgp012D	7/18/2012 11:19	0.0	0.2	20.9	0	-0.53	
Chgp013A	7/18/2012 11:23	0.0	2.7	16.3	0	0.05	
Chgp013B	7/18/2012 11:25	0.0	0.1	20.9	0	0	
Chgp013C	7/18/2012 11:27	0.0	0.0	21.0	0	-0.24	
Chgp013D	7/18/2012 11:28	0.0	0.0	21.0	0	-2.04	
Chgp014A	7/18/2012 11:33	0.0	0.0	21.0	0	-1.01	
Chgp014B	7/18/2012 11:35	0.0	0.0	21.0	0	-1.81	
Chgp015A	7/18/2012 11:56	0.0	0.3	20.9	0	0.08	
Chgp015C	7/18/2012 11:58	0.0	2.1	8.8	0	-0.91	
Chgp015D	7/18/2012 11:59	0.0	0.1	20.9	0	-3.71	
Chgp016A	7/18/2012 12:13	0.0	5.6	11.7	0	0.18	
Chgp016B	7/18/2012 12:15	0.0	0.1	20.5	0	-0.73	
Chgp016C	7/18/2012 12:16	0.0	0.1	20.9	0	-1.84	
Chgp017A	7/18/2012 15:09	0.0	0.0	0.0	0	0.07	NR Water
Chgp017B	7/18/2012 15:11	0.0	0.7	17.3	0	0.06	
Chgp017C	7/18/2012 15:12	0.0	0.0	20.8	0	-1.32	
Chgp018A	7/18/2012 15:15	0.0	1.4	15.9	0	0.31	
Chgp018B	7/18/2012 15:17	0.0	0.3	13.0	0	0.12	
Chgp018C	7/18/2012 15:18	0.0	0.5	19.2	0	-0.86	
Chgp019A	7/18/2012 15:22	0.0	0.0	20.9	0	0.09	
Chgp019B	7/18/2012 15:23	0.0	0.5	15.9	0	0.14	
Chgp019C	7/18/2012 15:25	0.0	0.0	20.8	0	-0.05	
Chgp020A	7/18/2012 15:28	0.0	0.0	20.8	0	0	
Chgp020B	7/18/2012 15:30	0.0	0.2	15.3	0	0.09	
Chgp020C	7/18/2012 15:31	0.0	0.2	7.4	0	0.02	
Chgp021A	7/18/2012 15:41	0.0	0.0	20.7	0	-0.95	
Chgp021B	7/18/2012 15:42	0.0	0.1	9.0	0	0.08	
Chgp021C	7/18/2012 15:43	0.0	0.0	0.0	0	0.23	NR Water
Chgp022A	7/18/2012 16:04	0.0	0.0	0.0	0	0	NR Broken
Chgp022B	7/18/2012 16:04	0.0	0.0	0.0	0	0	NR Broken
Chgp022C	7/18/2012 16:05	0.0	0.0	0.0	0	0	NR Broken
Chgp023A	7/18/2012 16:06	0.0	0.0	20.8	0	0.07	
Chgp023B	7/18/2012 16:07	0.0	0.0	20.8	0	0.08	
Chgp023C	7/18/2012 16:09	0.0	0.0	20.8	0	0	
Chgp024A	7/18/2012 16:15	0.0	5.2	10.7	0	0.03	
Chgp024B	7/18/2012 16:16	0.0	0.3	20.0	0	0	
Chgp0025	7/18/2012 16:19	0.0	4.3	14.1	0	0.11	
Chgp0026	7/18/2012 16:23	0.0	0.9	19.1	0	0.05	
Chgp0027	7/18/2012 16:26	0.0	9.9	6.5	0	0.16	

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.02
Bar Stop: 30.10
Amb. Temp: 60 F
Tech: DB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp029A	7/18/2012 16:31	0.0	0.6	20.2	0	0.04	
Chgp029B	7/18/2012 16:32	0.0	0.6	20.4	0	0.05	
Chgp030A	7/18/2012 7:45	0.0	3.2	17.4	0	-1.22	
Chgp030B	7/18/2012 7:47	0.0	0.1	21.0	0	-2.44	
Chgp031A	7/18/2012 7:50	0.0	0.0	0.0	0	-15.39	NR Water
Chgp031B	7/18/2012 7:52	0.0	0.2	19.4	0	-1.33	
Chgp031C	7/18/2012 7:54	0.0	1.3	14.9	0	0	
Chgp032A	7/18/2012 8:01	0.0	0.1	20.9	0	0	
Chgp032B	7/18/2012 8:03	0.0	0.2	20.8	0	0	
Chgp032C	7/18/2012 8:04	0.0	0.3	20.8	0	0.01	
Chgp033A	7/18/2012 8:07	0.0	2.6	17.2	0	0	
Chgp033B	7/18/2012 8:08	0.0	3.0	16.5	0	0	
Chgp033C	7/18/2012 8:10	0.0	0.1	21.0	0	-2.24	
Chgp034A	7/18/2012 8:15	0.0	0.0	0.0	0	0.61	NR Water
Chgp034B	7/18/2012 8:17	0.0	0.1	21.0	0	-0.19	
Chgp034C	7/18/2012 8:18	0.0	0.1	19.7	0	-0.89	
Chgp035A	7/18/2012 8:23	0.0	0.1	21.0	0	0.08	
Chgp035B	7/18/2012 8:25	0.0	0.1	21.0	0	-1.28	
Chgp035C	7/18/2012 8:26	0.0	0.1	20.8	0	-1.85	
Chgp036A	7/18/2012 8:30	0.0	0.2	20.9	0	-1.85	
Chgp036B	7/18/2012 8:32	0.0	0.2	20.7	0	0.19	
Chgp036C	7/18/2012 8:34	0.0	0.3	20.4	0	-0.15	
Chgp037A	7/18/2012 8:37	0.0	0.0	0.0	0	-1.32	NR Water
Chgp037B	7/18/2012 8:39	0.0	2.6	18.1	0	-2.36	
Chgp037C	7/18/2012 8:40	0.0	0.2	20.1	0	-1.05	
Chgp0039	7/18/2012 8:57	0.0	1.1	19.2	0	-0.01	
Chgp0040	7/18/2012 9:02	0.0	0.0	16.3	0	0.09	
Chgp041A	7/18/2012 9:06	0.0	0.1	21.0	0	0	
Chgp041B	7/18/2012 9:08	0.0	0.1	21.0	0	0	
Chgp041C	7/18/2012 9:09	0.0	0.0	21.0	0	-0.01	
Chgp042A	7/18/2012 9:14	0.0	0.1	21.0	0	-0.04	
Chgp042B	7/18/2012 9:15	0.0	0.2	20.8	0	-0.17	
Chgp043A	7/18/2012 9:18	0.0	0.0	21.0	0	0.1	
Chgp043B	7/18/2012 9:20	0.0	0.0	21.0	0	0	
Chgp043C	7/18/2012 9:22	0.0	0.1	19.8	0	-0.02	
Chgp044A	7/18/2012 9:34	0.0	0.0	21.0	0	0.05	
Chgp044B	7/18/2012 9:36	0.0	0.1	20.8	0	-0.84	
Chgp044C	7/18/2012 9:37	0.0	0.0	21.0	0	0.05	
Chgp045D	7/18/2012 10:51	0.0	0.0	20.8	0	-0.58	
Chgp045I	7/18/2012 10:49	0.0	0.0	20.8	0	0	
Chgp045S	7/18/2012 10:48	0.0	0.0	20.8	0	0.19	

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.00
Bar Stop: 30.01
Amb. Temp: 67. F
Tech: JP

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chatc01D	8/21/2012 10:37	0.0	0.0	20.7	0	0.01	
Chatc01S	8/21/2012 10:35	0.0	3.6	16.8	0	0	
Chatc06D	8/21/2012 12:43	0.0	0.1	20.5	0	-0.2	
Chatc06S	8/21/2012 12:41	0.0	2.8	19.1	0	0	
Chatc08D	8/21/2012 12:53	0.0	0.3	19.5	0	-0.05	
Chatc08S	8/21/2012 12:52	0.0	2.8	19.0	0	0	
Chgp011A	8/21/2012 12:27	0.0	1.5	17.3	0	0	
Chgp011B	8/21/2012 12:28	0.0	0.0	20.5	0	-0.23	
Chgp011C	8/21/2012 12:30	0.0	0.0	20.5	0	-0.24	
Chgp011D	8/21/2012 12:31	0.0	0.1	20.3	0	0.08	
Chgp012A	8/21/2012 10:54	0.0	0.0	20.9	0	0	
Chgp012B	8/21/2012 10:56	0.0	0.0	21.1	0	0	
Chgp012C	8/21/2012 10:57	0.0	0.1	20.4	0	0	
Chgp012D	8/21/2012 10:59	0.0	0.0	21.0	0	-0.23	
Chgp013A	8/21/2012 10:43	0.0	2.1	19.3	0	0	
Chgp013B	8/21/2012 10:45	0.0	0.0	20.9	0	-0.02	
Chgp013C	8/21/2012 10:46	0.0	0.0	20.9	0	0	
Chgp013D	8/21/2012 10:48	0.0	0.0	21.0	0	-0.88	
Chgp014A	8/21/2012 11:06	0.0	0.0	21.0	0	-0.81	
Chgp014B	8/21/2012 11:09	0.0	0.0	20.7	0	-0.84	
Chgp015A	8/21/2012 11:23	0.0	0.7	20.0	0	0	
Chgp015C	8/21/2012 11:24	0.0	2.9	2.8	0	-0.26	
Chgp015D	8/21/2012 11:26	0.0	0.1	20.2	0	-3.87	
Chgp016A	8/21/2012 12:46	0.0	4.2	18.4	0	0	
Chgp016B	8/21/2012 12:47	0.0	0.1	20.4	0	-0.63	
Chgp016C	8/21/2012 12:49	0.0	0.0	20.6	0	-0.82	
Chgp017A	8/21/2012 13:08	0.0	0.0	0.0	0	-0.88	NR H2O
Chgp017B	8/21/2012 13:09	0.0	0.7	17.4	0	0	
Chgp017C	8/21/2012 13:11	0.0	0.0	20.4	0	-0.69	
Chgp018A	8/21/2012 13:14	0.0	1.8	16.8	0	0	
Chgp018B	8/21/2012 13:16	0.0	0.3	12.5	0	0	
Chgp018C	8/21/2012 13:17	0.0	0.4	19.1	0	-0.79	
Chgp019A	8/21/2012 13:20	0.0	0.0	20.3	0	0	
Chgp019B	8/21/2012 13:22	0.0	0.5	15.7	0	0	
Chgp019C	8/21/2012 13:24	0.0	0.0	20.4	0	-0.03	
Chgp020A	8/21/2012 13:27	0.0	1.0	19.4	0	0	
Chgp020B	8/21/2012 13:29	0.0	0.2	15.9	0	0	
Chgp020C	8/21/2012 13:31	0.0	0.1	4.2	0	0	
Chgp021A	8/21/2012 13:34	0.0	0.0	20.4	0	0	
Chgp021B	8/21/2012 13:35	0.0	0.0	9.1	0	0	
Chgp021C	8/21/2012 13:36	0.0	0.0	0.0	0	0.64	NR H2O
Chgp022A	8/21/2012 13:39	0.0	0.0	0.0	0	0	BROKEN
Chgp022B	8/21/2012 13:39	0.0	0.0	0.0	0	0	BROKEN
Chgp022C	8/21/2012 13:39	0.0	0.0	0.0	0	0	BROKEN
Chgp023A	8/21/2012 13:43	0.0	1.3	19.7	0	0	
Chgp023B	8/21/2012 13:45	0.0	0.0	20.5	0	0	
Chgp023C	8/21/2012 13:46	0.0	0.0	20.5	0	0	
Chgp024A	8/21/2012 13:52	0.0	5.7	13.9	0	0	
Chgp024B	8/21/2012 13:53	0.0	0.1	20.4	0	-0.55	
Chgp0025	8/21/2012 13:56	0.0	3.7	17.7	0	0	
Chgp0026	8/21/2012 13:59	0.0	1.1	18.4	0	0	
Chgp0027	8/21/2012 14:02	0.0	12.0	7.7	0	0	

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.00
Bar Stop: 30.01
Amb. Temp: 67. F
Tech: JP

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp029A	8/21/2012 14:07	0.0	0.6	19.9	0	0	
Chgp029B	8/21/2012 14:09	0.0	0.6	20.1	0	0	
Chgp030A	8/21/2012 7:33	0.0	3.0	18.4	0	-0.05	
Chgp030B	8/21/2012 7:35	0.0	1.5	19.3	0	-1.4	
Chgp031A	8/21/2012 7:39	0.0	10.3	8.7	0	0	
Chgp031B	8/21/2012 7:41	0.0	0.2	17.2	0	-0.39	
Chgp031C	8/21/2012 7:43	0.0	1.5	15.3	0	0	
Chgp032A	8/21/2012 7:47	0.0	0.0	20.8	0	-1.41	
Chgp032B	8/21/2012 7:49	0.0	0.2	20.7	0	0	
Chgp032C	8/21/2012 7:50	0.0	0.3	20.6	0	0	
Chgp033A	8/21/2012 7:53	0.0	3.1	17.6	0	0.15	
Chgp033B	8/21/2012 7:55	0.0	0.1	20.7	0	0	
Chgp033C	8/21/2012 7:56	0.0	0.0	20.9	0	-1.36	
Chgp034A	8/21/2012 8:00	0.0	0.0	0.0	0	0	NR H2O
Chgp034B	8/21/2012 8:03	0.0	0.1	20.8	0	-0.02	
Chgp034C	8/21/2012 8:04	0.0	0.0	20.4	0	-0.83	
Chgp035A	8/21/2012 8:12	0.0	0.0	20.9	0	0	
Chgp035B	8/21/2012 8:13	0.0	0.0	20.9	0	0	
Chgp035C	8/21/2012 8:15	0.0	0.0	20.9	0	-0.03	
Chgp036A	8/21/2012 8:18	0.0	0.8	20.3	0	-0.7	
Chgp036B	8/21/2012 8:20	0.0	0.1	20.8	0	0	
Chgp036C	8/21/2012 8:21	0.0	0.3	8.2	0	-0.59	
Chgp037A	8/21/2012 8:25	0.0	0.3	8.9	0	-17.94	NR H2O
Chgp037B	8/21/2012 8:26	0.0	0.1	19.6	0	-0.09	
Chgp037C	8/21/2012 8:28	0.0	0.6	0.9	0	-0.27	
Chgp0039	8/21/2012 14:27	0.0	2.3	18.5	0	0	
Chgp0040	8/21/2012 14:31	0.0	0.0	14.4	0	0	
Chgp041A	8/21/2012 14:36	0.0	4.9	14.3	0	0.1	
Chgp041B	8/21/2012 14:38	0.0	0.7	5.2	0	0	
Chgp041C	8/21/2012 14:39	0.0	0.0	20.5	0	0	
Chgp042A	8/21/2012 14:43	0.0	0.5	19.8	0	0	
Chgp042B	8/21/2012 14:45	0.0	0.4	18.8	0	-0.21	
Chgp043A	8/21/2012 15:02	0.0	0.0	20.5	0	-0.04	
Chgp043B	8/21/2012 15:03	0.0	0.0	20.7	0	0	
Chgp043C	8/21/2012 15:05	0.0	0.0	20.7	0	0	
Chgp044A	8/21/2012 15:10	0.0	0.3	20.4	0	0	
Chgp044B	8/21/2012 15:12	0.0	0.0	20.6	0	-0.36	
Chgp044C	8/21/2012 15:13	0.0	0.0	20.7	0	0	
Chgp045D	8/21/2012 10:28	0.0	0.0	20.7	0	-0.28	
Chgp045I	8/21/2012 10:26	0.0	0.0	20.6	0	0	
Chgp045S	8/21/2012 10:24	0.0	0.0	20.5	0	0	

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.03
Bar Stop: 30.03
Amb. Temp: 76F
Tech: JB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chatc01D	9/18/2012 9:44	0.0	0.1	20.6	0	0	
Chatc01S	9/18/2012 9:43	0.0	3.8	18.2	0	0	
Chatc06D	9/18/2012 10:37	0.0	0.1	20.7	0	-0.18	
Chatc06S	9/18/2012 10:35	0.0	2.0	19.9	0	0	
Chatc08D	9/18/2012 10:48	0.0	0.3	18.1	0	0	
Chatc08S	9/18/2012 10:46	0.0	1.6	19.9	0	0.01	
Chgp011A	9/18/2012 9:32	0.0	2.3	18.9	0	0	
Chgp011B	9/18/2012 9:34	0.0	0.1	20.6	0	0.09	
Chgp011C	9/18/2012 9:35	0.0	0.0	20.7	0	-0.03	
Chgp011D	9/18/2012 9:37	0.0	0.1	20.6	0	0.11	
Chgp012A	9/18/2012 9:51	0.0	0.3	20.5	0	0	
Chgp012B	9/18/2012 9:52	0.0	0.0	20.8	0	0.01	
Chgp012C	9/18/2012 9:54	0.0	0.1	20.2	0	0.01	
Chgp012D	9/18/2012 9:56	0.0	0.2	19.3	0	-0.02	
Chgp013A	9/18/2012 10:00	0.0	1.4	19.7	0	0	
Chgp013B	9/18/2012 10:01	0.0	0.0	20.8	0	-0.08	
Chgp013C	9/18/2012 10:03	0.0	0.1	18.6	0	0	
Chgp013D	9/18/2012 10:05	0.0	0.3	16.6	0	0.06	
Chgp014A	9/18/2012 10:09	0.0	0.1	19.9	0	0.17	
Chgp014B	9/18/2012 10:11	0.0	1.1	17.0	0	0	
Chgp015A	9/18/2012 10:16	0.0	7.5	1.3	0	0.01	
Chgp015C	9/18/2012 10:18	0.0	2.7	4.8	0	0.42	
Chgp015D	9/18/2012 10:21	0.0	0.2	20.6	0	-2.79	
Chgp016A	9/18/2012 10:39	0.0	3.1	19.2	0	0	
Chgp016B	9/18/2012 10:41	0.0	0.1	20.8	0	-0.84	
Chgp016C	9/18/2012 10:43	0.0	0.1	20.4	0	0.15	
Chgp017A	9/18/2012 11:37	0.0	3.8	12.8	0	0	
Chgp017B	9/18/2012 11:38	0.0	0.7	17.1	0	0	
Chgp017C	9/18/2012 11:41	0.0	0.0	20.5	0	-0.05	
Chgp018A	9/18/2012 11:43	0.0	1.8	17.9	0	0	
Chgp018B	9/18/2012 11:45	0.0	0.3	13.5	0	0	
Chgp018C	9/18/2012 11:47	0.0	0.7	14.9	0	0.17	
Chgp019A	9/18/2012 11:50	0.0	1.2	18.4	0	0	
Chgp019B	9/18/2012 11:51	0.0	0.5	16.1	0	0	
Chgp019C	9/18/2012 11:53	0.0	0.0	20.5	0	0.03	
Chgp020A	9/18/2012 11:56	0.0	1.0	19.9	0	0	
Chgp020B	9/18/2012 11:58	0.0	0.2	18.9	0	0.01	
Chgp020C	9/18/2012 12:01	0.0	0.1	5.0	0	0	
Chgp021A	9/18/2012 12:03	0.0	1.3	18.3	0	0	
Chgp021B	9/18/2012 12:05	0.0	0.1	9.4	0	0	
Chgp021C	9/18/2012 12:08	0.0	0.0	0.0	0	-0.07	NRH2O
Chgp022A	9/18/2012 12:09	0.0	0.0	0.0	0	0	NRCONST
Chgp022B	9/18/2012 12:09	0.0	0.0	0.0	0	0	NRCONST
Chgp022C	9/18/2012 12:10	0.0	0.0	0.0	0	0	NRCONST
Chgp023A	9/18/2012 12:14	0.0	0.9	19.9	0	0	
Chgp023B	9/18/2012 12:15	0.0	0.0	20.5	0	0	
Chgp023C	9/18/2012 12:17	0.0	0.0	20.5	0	0.01	
Chgp024A	9/18/2012 12:20	0.0	4.6	15.8	0	0	
Chgp024B	9/18/2012 12:22	0.0	0.7	19.0	0	0.05	
Chgp0025	9/18/2012 12:25	0.0	3.0	18.8	0	0	
Chgp0026	9/18/2012 12:28	0.0	0.5	19.7	0	-0.16	
Chgp0027	9/18/2012 12:32	0.0	9.8	11.8	0	0	

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.03
Bar Stop: 30.03
Amb. Temp: 76F
Tech: JB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp029A	9/18/2012 12:37	0.0	0.8	20.0	0	0	
Chgp029B	9/18/2012 12:39	0.0	0.3	20.3	0	0.02	
Chgp030A	9/18/2012 7:11	0.0	2.6	19.3	0	-0.03	
Chgp030B	9/18/2012 7:13	0.0	0.8	20.2	0	-0.44	
Chgp031A	9/18/2012 7:16	0.0	7.0	11.2	0	0.01	
Chgp031B	9/18/2012 7:17	0.0	0.3	16.0	0	0	
Chgp031C	9/18/2012 7:19	0.0	1.4	15.6	0	0.01	
Chgp032A	9/18/2012 7:22	0.0	0.1	20.8	0	0	
Chgp032B	9/18/2012 7:24	0.0	0.2	20.9	0	0.02	
Chgp032C	9/18/2012 7:26	0.0	0.2	20.8	0	0.02	
Chgp033A	9/18/2012 7:28	0.0	3.0	18.2	0	0	
Chgp033B	9/18/2012 7:30	0.0	1.0	15.9	0	0	
Chgp033C	9/18/2012 7:31	0.0	0.1	20.9	0	-1.02	
Chgp034A	9/18/2012 7:35	0.0	0.0	0.0	0	0	NRH2O
Chgp034B	9/18/2012 7:37	0.0	0.3	19.2	0	-0.04	
Chgp034C	9/18/2012 7:39	0.0	0.1	5.9	0	0.23	
Chgp035A	9/18/2012 7:41	0.0	5.8	15.8	0	0	
Chgp035B	9/18/2012 7:42	0.0	0.1	20.9	0	0	
Chgp035C	9/18/2012 7:44	0.0	0.1	20.9	0	0	
Chgp036A	9/18/2012 7:47	0.0	0.5	20.2	0	-0.15	
Chgp036B	9/18/2012 7:48	0.0	4.7	17.2	0	0	
Chgp036C	9/18/2012 7:51	0.0	0.4	7.8	0	0.57	
Chgp037A	9/18/2012 7:55	0.0	2.0	17.0	0	-9.27	
Chgp037B	9/18/2012 7:58	0.0	1.7	16.9	0	-0.01	
Chgp037C	9/18/2012 8:00	0.0	0.6	0.9	0	0.88	
Chgp0039	9/18/2012 12:58	0.0	1.9	19.0	0	0.01	
Chgp0040	9/18/2012 13:00	0.0	0.0	14.9	0	0	
Chgp041A	9/18/2012 13:04	0.0	4.2	16.5	0	0	
Chgp041B	9/18/2012 13:06	0.0	0.6	6.2	0	0	
Chgp041C	9/18/2012 13:08	0.0	0.0	19.9	0	0	
Chgp042A	9/18/2012 13:11	0.0	4.8	12.7	0	0	
Chgp042B	9/18/2012 13:13	0.0	0.8	18.2	0	0.13	
Chgp043A	9/18/2012 13:16	0.0	0.1	20.1	0	0	
Chgp043B	9/18/2012 13:17	0.0	0.0	20.1	0	-0.01	
Chgp043C	9/18/2012 13:20	0.0	0.0	19.7	0	0.01	
Chgp044A	9/18/2012 13:23	0.0	9.0	6.9	0	0	
Chgp044B	9/18/2012 13:25	0.0	0.2	19.5	0	0.1	
Chgp044C	9/18/2012 13:27	0.0	0.0	20.4	0	0	
Chgp045D	9/18/2012 9:30	0.0	0.0	20.3	0	-0.01	
Chgp045I	9/18/2012 9:28	0.0	0.0	20.4	0	0	
Chgp045S	9/18/2012 9:26	0.0	0.0	20.6	0	0	

CEDAR HILLS REGIONAL LANDFILL

Supplemental Gas Migration Monitoring

Second Quarter 2012

Probe GP-30B

Date	Time	Bar Press.	CH_4	CO_2	O_2	Static Press.
7/1/2012	7:27am	30.02	0	0.2	20.8	-2.52
7/2/2012	8:10am	30	0	1.3	18.8	-1.6
7/3/2012	8:35am	29.96	0	0.2	20.9	-2.69
7/4/2012	8:00am	30.09	0	1.2	18.7	-1.9
7/5/2012	8:15am	30.02	0	1.3	18.8	-2.1
7/6/2012	8:19am	30.09	0	0.2	20.8	-2.45
7/7/2012	9:15am	30.13	0	1.1	18.8	-2.1
7/8/2012	7:41am	30.07	0	0.2	20.4	-1.67
7/9/2012	8:10am	30.08	0	1.3	19.1	-2.18
7/10/2012	8:50am	30.18	0	1.3	19.4	-2.4
7/11/2012	9:30am	30.09	0	0	20.7	-1.6
7/12/2012	8:30am	30.02	0	0.6	20.1	-1.8
7/13/2012	9:22am	30.03	0	0.3	20.4	-1.85
7/14/2012	7:40am	29.99	0	1.2	19	-1.54
7/15/2012	8:28am	29.96	0	1.4	18.8	-1.48
7/16/2012	8:20am	29.94	0	1.4	19	-1.4
7/17/2012	9:00am	29.87	0	0	20.8	-1.84
7/18/2012	7:45am	30.02	0	0.1	21	-2.4
7/19/2012	8:50am	30.04	0	0.2	21	-1.4
7/20/2012	9:15am	30.02	0	1.5	19	-2.6
7/21/2012	7:55am	30.18	0	1.6	19	-2.05
7/22/2012	8:00am	30.1	0	0.3	20.8	-1.62
7/23/2012	8:18am	30.18	0	1.4	19.3	-2.06
7/24/2012	8:40am	30.1	0	0.2	20.8	-1.2
7/25/2012	8:17am	30.03	0	0.3	20.3	-1.41
7/26/2012	8:15am	29.99	0	0.4	21	-1.4
7/27/2012	8:45am	30.02	0	1.4	19.2	-2.2
7/28/2012	7:40am	30.12	0	1.3	19.3	-2.07
7/29/2012	8:45am	30.15	0	1.4	19.1	-1.68
7/30/2012	9:00am	30.15	0	0.3	20.9	-1.8
7/31/2012	9:05am	30.13	0	1.2	19.3	-1.67
8/1/2012	8:57am	30.18	0	1.3	19.3	-1.86
8/2/2012	8:45am	30.17	0	1.6	19.1	-1.49
8/3/2012	8:12am	30.12	0	1.5	19.2	-1.36
8/4/2012	7:52am	29.98	0	1.6	19.1	-0.96
8/5/2012	7:51am	29.93	0	1.6	18.8	-1.51
8/6/2012	7:58am	30.06	0	1.5	19	-2.23
8/7/2012	8:35am	30.08	0	1.4	19.6	-1.4
8/8/2012	8:30am	30.12	0	1.7	19.2	-2.1
8/9/2012	8:16am	30.16	0	0.3	20.7	-1.51
8/10/2012	8:55am	30.12	0	0.8	19.9	-1.43
8/11/2012	7:58am	30.09	0	1.4	19.4	-1.55
8/12/2012	7:30am	30.02	0	1.5	19.3	-1.16
8/13/2012	8:05am	30.01	0	1.5	19	-0.9
8/14/2012	9:00am	30.01	0	1.3	19.1	-1.06
8/15/2012	7:49am	29.97	0	1.5	19.2	-1.28
8/16/2012	7:55am	29.97	0	1.5	19.4	-1.44

CEDAR HILLS REGIONAL LANDFILL

Supplemental Gas Migration Monitoring

Second Quarter 2012

Probe GP-30B

Date	Time	Bar Press.	CH_4	CO_2	O_2	Static Press.
8/17/2012	8:20am	29.98	0	1.5	19.4	-1.55
8/18/2012	8:00am	29.98	0	1.8	19.2	-1.4
8/19/2012	8:20am	30	0	1.6	19.3	-1.9
8/20/2012	8:25am	30.02	0	1.6	19.4	-1.2
8/21/2012	8:36am	30	0	1.3	19.9	-1.5
8/22/2012	8:15am	30.09	0	1.6	19.5	-1.8
8/23/2012	7:47am	30.08	0	0.3	20.8	-1.35
8/24/2012	8:10am	30.18	0	1.1	20.2	-1.86
8/25/2012	8:00am	29.97	0	3.2	18	-0.03
8/26/2012	7:55am	29.82	0	1.1	19.6	-0.56
8/27/2012	8:03am	30.03	0	1.3	19.4	-1.34
8/28/2012	9:00am	30.03	0	0	20.9	-0.81
8/29/2012	8:31am	30.1	0	1.1	20.2	-1.07
8/30/2012	8:58am	30.04	0	1	19.8	-0.2
8/31/2012	9:00am	29.97	0	1.2	19.7	-0.66
9/1/2012	9:05am	30.11	0	0.3	20.9	-1.35
9/2/2012	10:00am	30.19	0	0.2	20.8	-0.93
9/3/2012	8:40am	30.18	0	1	20	-0.79
9/4/2012	8:50am	30.2	0	1	19.8	-0.8
9/5/2012	8:30am	30.1	0	1.1	19.4	-0.25
9/6/2012	9:07am	30.02	0	1.2	19.1	-0.73
9/7/2012	9:20am	30.12	0	1.2	19.4	-0.9
9/8/2012	7:30am	30.04	0	1.2	19.6	-0.13
9/9/2012	8:19am	30.01	0	1.3	19.8	-0.63
9/10/2012	8:10am	30.08	0	1.2	20.1	-1.28
9/11/2012	9:30am	30.28	0	0.2	20.8	-1.11
9/12/2012	10:00am	30.28	0	1	20.2	-0.8
9/13/2012	8:46am	30.18	0	0.6	20.3	-0.24
9/14/2012	9:08am	30.08	0	0.9	19.9	-0.49
9/15/2012	8:30am	30.1	0	1.2	20.2	-0.9
9/16/2012	9:05am	30.15	0	1.2	19.7	-0.8
9/17/2012	8:40am	30.1	0	1.1	20	-0.4
9/18/2012	7:12am	30.03	0	0.8	20.2	-0.44
9/19/2012	8:35am	30.04	0	0.4	21	-0.9
9/20/2012	8:19am	30.1	0	0.9	20.2	-0.39
9/21/2012	9:00am	30.12	0	1.1	20.1	-0.62
9/22/2012	7:58am	30.12	0	1.1	19.9	-0.64
9/23/2012	8:05am	30.13	0	1.2	19.7	-0.59
9/24/2012	8:35am	30.12	0	1.2	21	-0.5
9/25/2012	11:41am	30.12	0	1.2	19.6	-0.7
9/26/2012	9:11am	30.12	0	1.2	19.4	-0.48
9/27/2012	8:41am	30.08	0	1.3	19.5	-0.37
9/28/2012	8:36am	29.98	0	1.2	20	-0.47
9/29/2012	7:58am	30.13	0	1.2	20	-1.22
9/30/2012	8:32am	30.32	0	1.2	20.1	-1.3

CEDAR HILLS REGIONAL LANDFILL

Supplemental Gas Migration Monitoring

Second Quarter 2012

Probe GP-33C

Date	Time	Bar Press.	CH_4	CO_2	O_2	Static Press.
7/1/2012	7:33am	30.02	0	0.1	20.9	-3.11
7/2/2012	8:10am	30	0	0.2	20.9	-2.3
7/3/2012	8:40am	29.96	0	0.1	20.9	-3.21
7/4/2012	8:09am	30.09	0	0.1	20.7	-2.65
7/5/2012	8:15am	30.02	0	0.2	20.9	-2.4
7/6/2012	8:25am	30.09	0	0.1	20.9	-3.23
7/7/2012	9:15am	30.13	0	0	20.3	-3
7/8/2012	7:47am	30.07	0	0.1	20.5	-2.62
7/9/2012	8:15am	30.08	0	0.1	21	-3.05
7/10/2012	8:50am	30.18	0	0.2	21	-3.3
7/11/2012	9:30am	30.09	0	0	21	-1.9
7/12/2012	8:30am	30.02	0	0.2	20.7	-2.3
7/13/2012	9:28am	30.03	0	0.1	20.8	-2.51
7/14/2012	7:48am	29.99	0	0.1	20.7	-2.11
7/15/2012	8:34am	29.96	0	0.1	20.6	-1.93
7/16/2012	8:20am	29.94	0	0.1	20.9	-1.2
7/17/2012	9:00am	29.87	0	0	20.9	-2.1
7/18/2012	8:10am	30.02	0	0.1	21	-2.2
7/19/2012	8:55am	30.04	0	0.2	21	-1.5
7/20/2012	9:10am	30.02	0	0	20.7	-1.9
7/21/2012	8:02am	30.18	0	0.1	20.8	-2.59
7/22/2012	8:07am	30.1	0	0.1	21	-1.98
7/23/2012	8:22am	30.18	0	0.1	20.8	-2.47
7/24/2012	8:45am	30.1	0	0.1	21	-1.1
7/25/2012	8:24am	30.03	0	0.1	20.4	-1.78
7/26/2012	8:20am	29.99	0	0.3	21	-1.8
7/27/2012	8:45am	30.02	0	0	20.8	-1.5
7/28/2012	7:46am	30.12	0	0.1	20.8	-2.27
7/29/2012	8:51am	30.15	0	0.1	20.6	-1.96
7/30/2012	9:05am	30.15	0	0.2	20.8	-1.8
7/31/2012	9:00am	30.13	0	0.2	20.7	-2.18
8/1/2012	9:03am	30.18	0	0	20.8	-2.19
8/2/2012	8:50am	30.17	0	0	20.7	-1.21
8/3/2012	8:17am	30.12	0	0.1	20.9	-1.82
8/4/2012	7:57am	29.98	0	0.1	20.8	-1.44
8/5/2012	7:57am	29.93	0	0.1	20.5	-1.81
8/6/2012	8:04am	30.06	0	0.1	20.8	-2.35
8/7/2012	8:40am	30.08	0	0.1	21	-1.8
8/8/2012	8:35am	30.12	0	0.3	20.6	-2.2
8/9/2012	8:20am	30.16	0	0.1	20.8	-1.85
8/10/2012	9:00am	30.12	0	0	20.6	-1
8/11/2012	8:05am	30.09	0	0.1	20.9	-1.87
8/12/2012	7:38am	30.02	0	0.2	20.7	-1.5
8/13/2012	8:10am	30.01	0	0.2	20.6	-0.6
8/14/2012	9:05am	30.01	0	0	20.5	-0.85
8/15/2012	7:54am	29.97	0	0.2	20.7	-1.63
8/16/2012	8:00am	29.97	0	0	20.9	-0.84

CEDAR HILLS REGIONAL LANDFILL

Supplemental Gas Migration Monitoring

Second Quarter 2012

Probe GP-33C

Date	Time	Bar Press.	CH_4	CO_2	O_2	Static Press.
8/17/2012	8:25am	29.98	0	0	20.8	-1.15
8/18/2012	8:05am	29.98	0	0.3	20.8	-1.1
8/19/2012	8:25am	30	0	0.3	20.6	-1.3
8/20/2012	8/30am	30.02	0	0.2	20.9	-1.2
8/21/2012	8:41am	30	0	0.1	21	-1.88
8/22/2012	8:20am	30.09	0	0.2	20.9	-1.8
8/23/2012	7:50am	30.08	0	0.2	21	-1.95
8/24/2012	8:05am	30.18	0	0	21	-1.44
8/25/2012	8:05am	29.97	0	0.1	20.8	-0.66
8/26/2012	8:02am	29.82	0	0.1	20.9	-1.08
8/27/2012	8:08am	30.03	0	0.1	20.7	-1.83
8/28/2012	9:05am	30.03	0	1	20.1	-0.79
8/29/2012	8:35am	30.1	0	0.1	20.9	-1.52
8/30/2012	9:03am	30.04	0	0.1	20.8	-0.62
8/31/2012	9:05am	29.97	0	0	20.9	-0.61
9/1/2012	9:10am	30.11	0	0	20.9	-1.8
9/2/2012	10:05am	30.19	0	0.1	20.8	-0.96
9/3/2012	8:45am	30.18	0	0	20.9	-0.73
9/4/2012	8:55am	30.2	0	0.1	20.9	-0.8
9/5/2012	8:35am	30.1	0	0.1	20.8	-0.64
9/6/2012	9:15am	30.02	0	0.1	20.7	-1.31
9/7/2012	9:28am	30.12	0	0.1	20.6	-1.52
9/8/2012	7:37am	30.04	0	0.1	20.8	-0.46
9/9/2012	8:27am	30.01	0	0.1	20.7	-1.12
9/10/2012	8:13am	30.08	0	0.1	21	-1.86
9/11/2012	9:35am	30.28	0	0	20.9	-1.1
9/12/2012	10:05am	30.28	0	0	21	-1.1
9/13/2012	8:53am	30.18	0	0.1	20.8	-0.87
9/14/2012	9:13am	30.08	0	0.1	20.6	-1.01
9/15/2012	8:35am	30.1	0	0.2	21	-1.4
9/16/2012	9:10am	30.15	0	0.2	20.7	-1.3
9/17/2012	8:50am	30.1	0	0.1	21	-1
9/18/2012	7:30am	30.03	0	0.1	20.9	-1.02
9/19/2012	8:40am	30.04	0	0.2	21	-1
9/20/2012	8:23am	30.1	0	0.1	20.9	-1.06
9/21/2012	9:05am	30.12	0	0	21	-1.12
9/22/2012	8:04am	30.12	0	0.1	20.8	-1.34
9/23/2012	8:12am	30.13	0	0.1	20.7	-1.32
9/24/2012	8:40am	30.12	0	0.2	21	-1.3
9/25/2012	11:48am	30.12	0	0.1	20.6	-1.46
9/26/2012	9:16am	30.12	0	0.1	20.7	-1.26
9/27/2012	8:44am	30.08	0	0.1	20.6	-1.16
9/28/2012	8:42am	29.98	0	0.1	21	-1.12
9/29/2012	8:12am	30.13	0	0.1	21	-2.16
9/30/2012	8:40am	30.32	0	0.1	21	-2.41

THIRD QUARTER
BUILDING MONITORING

King County	INSTRUMENT: Place check by instrument used :		WEATHER:	DATE: 07/13/12
	HEATH DetectoPak III (sn:8746-4)		Overcast	TECH: JP
	Foxboro TVA 1000 FID/PID (sn: 7785301)	X		

ENVIS ID	BLDG #	DESCRIPTION	CH_4 (ppm)	BAR PRESS (in. Hg)	TIME	REMARKS
GOC- 07/13/12	1	FRONT OFFICE	0	30.03	9:45am	
GCR- 07/13/12	2	CONF ROOM	0		9:43am	
GAO- 07/13/12	3	PAYROLL OFFICE	0		9:41am	
GEO- 07/13/12	4	ENGR. OFFICE	0		9:40am	
GLRC- 07/13/12	5	LUNCHROOM	0		9:39am	
GSPC 07/13/12		SPOC	0		9:25am	
GELO- 07/13/12 A	6A	DRY STORAGE	0		9:32am	
GELO- 07/13/12 B	6B	ELECTRICIAN OFFICE	0		9:33am	
GAP- 07/13/12		ACCOUNT PAYABLE	0		9:34am	
GSO- 07/13/12 A	7A	SHOP OFFICE	0		9:27am	
GPR- 07/13/12 B	7B	PARTS ROOM	0		9:25am	
GMS- 07/13/12 C	7C	SHOP PIT AREA/BAY	0		9:25am	
GTB- 07/13/12 D	7D	SHOP TIRE BAY	0		9:24am	
GEW- 07/13/12 E	7E	EAST WELD SHOP	0		9:20am	
GWW- 07/13/12 F	7F	WEST WELD SHOP	0		9:22am	
GCS- 07/13/12	8	CARPENTER'S	0		9:54am	
GSS- 07/13/12	9	WASTEWATER	0		9:55am	
GSS- 07/13/12 B	9B	CARPENTER/STORAGE	0		9:56am	
GSH- 07/13/12	10	SCALEHOUSE	0		9:47am	
GB13- 07/13/12	13	WW COMPRESSOR	0		9:52am	
GB16- 07/13/12	16	GENERATOR	0		10:15am	
GB19- 07/13/12	19	LEPS (P.S.# 5)	0		10:10am	
GB19- 07/13/12 B	19B	LEPS/H_2O_2 ROOM	0		10:12am	
GB20- 07/13/12	20	LEPS ELEC PANALS	0		10:13am	
GB21- 07/13/12	21	STORAGE(OLD PS 1)	0		10:25am	
GB22- 07/13/12	22	STORAGE/N FLARE	0		10:28am	
GB23- 07/13/12	23	LFGAS	0		10:29am	
GB24- 07/13/12	24	NE GENERATOR BLDG	0		10:35am	
GBWW- 07/13/12	30	WOMEN BRK RM	0		9:30am	
GPWT- 07/13/12	PW	PRESSURE WASH RM	0		9:48am	
GBRR- 07/13/12	RR	TRUCKWASH RR W	0		9:49am	
GBSS- 07/13/12	SS	TRUCKWASH RR E	0		9:50am	
GBZZ- 07/13/12	29	MANAGERS TRAILER	0		9:37am	
GBPT- 07/13/12		CCG FASTER	0		9:36am	
GCLS- 07/13/12		CHLORINE SHED	0		9:46am	

KING COUNTY SOLID WASTE DIVISION
QUALIFIER INFORMATION
(Effective 4/1/2009)

QUAL	QUALIFIER DESCRIPTION
U	Undetected Analyte concentration <MDL – Less than Method detection limit
T	Estimated, Less than Reporting Detection Limit but greater than Method detection limit
J	Reported value is an estimate
B	Contamination present in Blank
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	Dilution
P	PASS – Qualitative result acceptable
F	FAIL – Qualitative result is not acceptable
G	Greater than
L	Less than

APPENDIX C

Meteorological Data

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN MILES PER HOUR

	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	4.5	6.0	7.8	2.5	0.7	0.3	3.8	5.0	4.4	4.3	3.7	3.0	4.3	2.7	1.9	3.8	2.0	1.8	1.7	1.8	3.6	3.7	1.6	2.1	3.2
2	3.3	2.6	2.1	2.7	3.0	2.2	2.6	3.0	2.0	2.2	3.4	2.8	3.8	6.1	7.9	7.3	6.3	5.2	2.8	7.7	4.3	6.7	6.0	4.5	4.2
3	6.0	6.9	5.7	6.5	10.8	15.0	16.1	14.8	13.6	17.1	16.4	13.9	15.5	16.7	16.0	18.2	17.1	15.1	10.2	9.5	8.2	5.4	1.2	2.7	11.6
4	3.0	5.2	6.7	6.0	6.1	3.5	1.3	2.2	6.8	6.7	4.4	5.3	6.3	8.5	8.9	9.2	9.5	9.4	8.2	4.8	5.1	8.6	10.7	8.5	6.5
5	9.9	6.4	4.7	4.9	3.9	2.5	1.7	1.6	1.9	2.9	3.5	4.0	6.8	8.7	9.0	8.9	8.3	6.2	5.4	5.1	6.1	9.5	8.4	4.5	5.6
6	5.1	4.3	2.3	3.3	4.3	2.6	1.7	3.0	2.0	2.9	5.7	8.0	7.1	6.6	6.1	6.2	6.8	6.9	6.6	5.4	8.7	9.3	9.1	6.5	5.4
7	5.0	3.6	3.7	4.5	6.3	6.3	6.2	4.1	3.8	3.4	4.7	7.6	7.8	8.8	8.1	8.6	7.0	7.7	5.8	5.4	5.7	9.5	8.1	9.0	6.3
8	7.2	7.1	4.5	4.4	4.9	2.6	2.6	4.1	2.3	2.9	4.2	6.5	7.0	7.1	6.9	8.8	9.7	6.7	6.7	3.6	5.9	10.4	8.0	4.8	5.8
9	3.1	3.4	4.5	3.9	3.5	2.4	3.6	3.3	1.3	2.1	3.1	6.1	5.6	6.2	6.8	6.5	6.2	6.6	6.2	6.0	4.0	4.8	6.0	6.7	4.7
10	4.7	4.9	5.5	3.2	4.6	3.1	2.7	2.5	1.7	1.5	2.7	5.0	5.7	6.1	6.8	4.8	5.9	8.1	5.7	3.4	3.6	6.1	7.8	7.7	4.7
11	4.8	3.7	2.2	1.5	0.8	0.6	2.2	2.6	1.9	4.0	8.4	9.9	8.4	7.2	8.5	7.7	6.4	7.3	5.1	4.4	5.5	7.9	8.2	8.6	5.3
12	9.1	6.5	3.9	3.5	5.4	4.4	3.0	4.5	4.5	6.7	6.3	6.2	6.2	7.1	8.3	8.5	9.4	8.7	7.9	7.2	2.4	5.3	2.5	3.0	5.9
13	4.7	4.0	1.3	3.3	4.3	4.9	4.3	4.8	4.2	2.1	1.8	1.8	3.1	4.8	4.7	3.7	2.4	3.9	4.9	3.5	2.7	2.0	2.1	1.5	3.4
14	1.9	1.3	4.0	3.9	3.2	2.0	2.7	2.1	2.2	3.1	4.6	3.0	3.5	3.0	4.2	5.3	5.0	3.1	3.9	2.4	1.4	4.4	4.3	5.4	3.3
15	4.1	5.1	6.8	9.2	7.1	15.3	14.4	10.5	11.8	10.3	7.8	10.0	14.1	13.2	8.1	7.0	3.8	8.0	5.7	2.1	4.1	2.7	1.9	1.8	7.7
16	2.3	3.3	2.0	2.8	2.0	1.6	1.4	2.3	3.8	9.7	5.5	5.0	5.1	7.1	8.3	9.2	10.1	8.0	8.7	5.5	2.6	3.6	2.7	3.3	4.8
17	2.7	3.5	2.8	2.5	5.0	1.8	4.7	2.4	3.2	2.6	3.3	4.7	5.1	4.6	3.9	3.9	3.8	6.6	6.1	5.9	6.1	4.4	4.9	7.6	4.3
18	6.6	7.8	7.2	5.8	5.2	8.0	4.1	4.4	4.0	3.2	2.0	5.2	5.9	5.5	3.8	4.5	5.6	5.5	5.1	2.2	1.8	5.8	2.9	2.7	4.8
19	2.7	2.7	2.0	2.2	4.1	3.9	6.7	4.8	4.0	8.2	8.2	9.1	9.4	7.2	7.2	4.4	7.3	8.3	5.1	4.0	1.4	2.2	4.0	3.3	5.1
20	5.8	4.4	4.0	4.9	3.7	3.8	8.8	6.2	5.1	4.9	6.7	6.7	8.5	8.1	7.9	7.3	8.5	4.6	5.1	4.8	4.7	5.2	5.0	2.3	5.7
21	2.2	2.4	2.7	2.8	2.4	2.9	3.2	2.8	2.5	3.3	2.6	3.1	4.6	4.5	4.0	4.0	5.3	6.4	6.1	5.9	1.3	1.6	1.1	3.1	3.4
22	4.8	4.6	4.2	4.2	4.0	4.1	4.2	4.9	6.1	4.8	4.8	6.4	7.6	4.7	5.8	6.8	7.3	11.1	9.3	8.7	6.5	9.3	4.9	4.5	6.0
23	3.4	4.6	5.9	4.5	6.0	6.4	7.5	7.8	7.3	7.7	7.6	7.6	6.2	7.2	4.9	2.5	3.2	3.0	2.7	2.2	2.0	3.5	5.8	6.5	5.3
24	10.5	9.8	10.4	7.8	6.9	7.9	6.6	6.3	5.0	8.5	10.1	10.1	8.3	8.3	8.0	8.1	7.9	10.3	8.6	6.7	6.9	8.5	7.3	6.3	8.1
25	4.7	2.6	2.9	1.8	0.9	1.6	0.8	1.4	1.8	3.2	3.5	4.6	5.1	6.3	7.1	8.5	8.6	8.2	6.6	4.4	4.2	4.8	3.4	2.7	4.2
26	2.0	2.5	2.3	2.5	3.4	1.0	2.2	2.5	3.5	5.2	5.9	6.0	6.1	5.9	6.2	6.3	6.8	6.9	5.7	6.9	6.9	6.7	5.4	6.3	4.8
27	6.3	5.9	5.4	5.3	5.6	5.8	5.9	5.9	4.0	6.0	7.2	5.7	5.2	4.2	2.2	3.6	3.9	3.2	1.9	5.2	6.1	5.5	3.6	3.2	4.9
28	2.0	1.7	1.8	3.2	3.3	3.5	2.2	0.7	1.2	1.5	2.2	2.8	2.7	4.0	4.7	5.2	6.5	6.3	5.0	4.0	2.1	1.7	1.6	2.2	3.0
29	3.6	3.6	1.9	4.2	4.1	2.8	2.2	1.3	1.9	1.6	3.7	2.9	4.8	6.6	4.3	6.2	3.9	3.5	4.6	2.9	0.8	2.3	4.4	3.2	3.4
30	4.8	2.7	4.3	5.9	6.3	3.4	4.1	5.7	5.9	4.9	5.0	5.6	3.9	3.6	5.2	6.8	4.3	2.2	0.6	1.1	2.0	3.0	4.6	3.4	4.1
31	3.8	5.6	6.4	5.5	5.7	6.6	7.6	4.9	5.5	3.1	4.8	7.3	6.3	4.9	4.2	5.7	6.3	5.3	4.6	4.8	2.4	4.6	9.3	10.7	5.7

MONTHLY AVERAGE = 5.19

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN DEGREES

(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	263.	251.	229.	218.	340.	5.	134.	160.	127.	177.	183.	194.	121.	199.	271.	119.	89.	104.	167.	18.	337.	328.	296.	17.	181.
2	33.	36.	36.	141.	191.	180.	189.	188.	198.	196.	257.	224.	206.	255.	277.	276.	274.	253.	230.	253.	248.	231.	222.	186.	199.
3	179.	176.	128.	173.	190.	204.	209.	192.	204.	205.	206.	193.	213.	214.	227.	223.	246.	250.	244.	237.	236.	234.	34.	44.	194.
4	39.	30.	25.	34.	38.	59.	133.	26.	33.	40.	300.	298.	300.	301.	306.	297.	296.	302.	309.	338.	31.	28.	28.	36.	151.
5	39.	33.	21.	44.	25.	14.	38.	67.	24.	358.	0.	326.	302.	283.	286.	282.	281.	300.	327.	340.	19.	22.	38.	68.	147.
6	40.	35.	79.	144.	161.	132.	167.	196.	241.	234.	280.	261.	257.	272.	290.	300.	282.	285.	299.	333.	25.	28.	35.	43.	184.
7	46.	41.	35.	31.	27.	32.	37.	34.	51.	32.	31.	20.	8.	22.	352.	309.	356.	343.	317.	340.	21.	28.	34.	37.	108.
8	38.	32.	31.	45.	41.	23.	227.	248.	261.	350.	296.	272.	265.	356.	11.	303.	291.	284.	269.	303.	18.	34.	47.	10.	169.
9	160.	199.	255.	218.	223.	228.	218.	209.	39.	207.	214.	256.	264.	274.	272.	274.	277.	282.	298.	302.	336.	275.	251.	232.	240.
10	213.	225.	222.	223.	246.	274.	256.	226.	263.	270.	283.	267.	277.	266.	279.	312.	339.	317.	349.	304.	347.	23.	35.	39.	244.
11	45.	38.	102.	190.	255.	299.	182.	206.	298.	349.	302.	302.	321.	318.	328.	335.	2.	313.	341.	338.	355.	34.	34.	31.	222.
12	28.	43.	50.	167.	172.	189.	191.	215.	222.	250.	250.	238.	281.	274.	256.	297.	296.	271.	270.	266.	220.	231.	248.	210.	214.
13	208.	212.	255.	230.	177.	191.	221.	235.	203.	194.	320.	225.	253.	312.	311.	298.	301.	272.	295.	296.	337.	39.	76.	56.	230.
14	319.	241.	170.	168.	197.	198.	132.	175.	207.	211.	213.	165.	162.	205.	269.	255.	253.	186.	225.	256.	252.	261.	245.	244.	217.
15	244.	214.	180.	183.	196.	207.	188.	200.	213.	195.	179.	202.	229.	223.	225.	224.	258.	284.	312.	354.	313.	11.	214.	350.	225.
16	107.	68.	57.	340.	44.	98.	151.	37.	16.	22.	21.	338.	325.	338.	13.	349.	316.	286.	295.	306.	241.	307.	15.	118.	175.
17	53.	234.	280.	188.	165.	138.	192.	164.	177.	167.	246.	267.	255.	266.	238.	230.	208.	199.	216.	258.	233.	206.	234.	188.	208.
18	198.	219.	188.	191.	192.	179.	140.	118.	118.	117.	211.	250.	234.	233.	232.	281.	277.	279.	293.	284.	323.	235.	262.	258.	221.
19	243.	238.	244.	309.	315.	10.	32.	26.	53.	37.	25.	28.	34.	8.	20.	329.	257.	294.	278.	307.	27.	109.	195.	129.	148.
20	160.	145.	284.	234.	240.	185.	258.	235.	197.	125.	161.	185.	240.	229.	240.	234.	204.	120.	122.	136.	136.	148.	171.	128.	188.
21	125.	146.	155.	146.	128.	172.	152.	148.	186.	194.	195.	215.	196.	241.	297.	206.	260.	269.	276.	281.	346.	177.	178.	190.	203.
22	208.	194.	186.	172.	159.	184.	156.	140.	142.	118.	150.	152.	251.	205.	171.	163.	217.	235.	242.	241.	32.	18.	6.	51.	158.
23	172.	159.	170.	152.	152.	148.	151.	164.	154.	164.	175.	182.	193.	174.	222.	134.	204.	243.	304.	349.	21.	31.	27.	34.	162.
24	26.	48.	41.	24.	28.	32.	37.	40.	22.	26.	31.	28.	12.	344.	2.	6.	349.	313.	311.	345.	9.	24.	41.	40.	91.
25	37.	44.	54.	82.	113.	9.	56.	171.	280.	34.	4.	13.	282.	277.	278.	249.	254.	282.	300.	348.	20.	51.	57.	46.	139.
26	84.	97.	147.	151.	201.	218.	197.	205.	229.	240.	261.	258.	268.	269.	268.	248.	256.	276.	272.	267.	258.	239.	254.	242.	225.
27	219.	200.	189.	169.	159.	187.	165.	170.	187.	198.	186.	211.	162.	260.	221.	138.	126.	131.	158.	265.	255.	249.	265.	252.	197.
28	248.	282.	312.	299.	302.	286.	280.	279.	58.	220.	355.	281.	268.	272.	275.	280.	267.	255.	264.	249.	326.	52.	64.	60.	243.
29	42.	26.	355.	32.	37.	31.	37.	102.	138.	349.	273.	267.	269.	263.	277.	234.	261.	257.	246.	250.	66.	154.	226.	186.	182.
30	189.	179.	192.	215.	215.	169.	186.	172.	166.	196.	173.	182.	151.	215.	221.	231.	235.	234.	182.	184.	203.	221.	265.	341.	205.
31	34.	31.	25.	26.	23.	27.	33.	31.	36.	355.	276.	314.	318.	17.	47.	349.	302.	321.	316.	314.	30.	46.	36.	34.	139.

MONTHLY AVERAGE = 187.46

SIGMA THETA FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN DEGREES

	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	9.0	10.4	7.9	15.8	37.3	9.5	17.1	12.5	11.2	21.9	16.7	27.2	27.1	42.5	44.8	22.2	28.4	18.5	34.0	23.5	17.1	9.7	16.4	24.1	21.0
2	11.1	7.3	5.7	17.8	11.8	13.7	24.7	18.5	30.1	33.7	36.6	45.0	44.8	37.7	13.4	11.6	9.4	11.4	11.9	7.8	13.3	11.5	11.6	13.0	18.9
3	14.0	9.3	8.9	12.1	12.4	10.8	10.2	11.0	13.0	11.0	9.0	11.9	11.6	12.4	10.1	12.3	10.3	9.8	9.5	8.1	7.2	5.2	13.4	7.1	10.4
4	8.6	6.8	8.9	7.7	9.1	13.5	35.3	33.3	18.4	15.6	39.6	37.4	35.3	19.4	18.8	16.8	12.8	12.2	8.6	13.0	14.5	11.3	9.1	9.1	17.3
5	7.2	7.2	8.4	8.4	7.5	11.7	20.6	41.7	61.2	43.4	43.5	41.1	22.8	14.4	14.6	14.4	13.8	16.6	13.2	16.2	12.1	10.7	8.9	15.6	19.8
6	8.5	7.3	16.8	9.2	6.3	13.9	33.9	25.4	32.6	25.9	26.5	17.0	19.8	26.1	24.2	27.6	14.3	11.8	7.8	13.3	9.6	8.1	8.7	10.4	16.9
7	9.4	9.4	8.1	9.2	8.3	9.2	9.1	14.8	29.5	27.7	32.0	19.9	22.9	16.9	15.9	15.2	24.1	13.0	11.2	17.6	10.9	8.0	9.0	9.0	15.0
8	9.1	10.4	8.8	9.7	7.9	22.5	12.1	18.6	48.2	33.3	31.0	18.1	16.6	25.9	31.6	17.2	9.7	11.3	8.2	16.9	13.3	9.4	11.9	38.0	18.3
9	40.2	49.3	10.8	8.2	9.7	12.1	15.8	20.2	34.5	37.8	46.4	21.4	22.7	20.5	18.2	18.0	18.8	14.8	8.9	6.6	15.0	14.8	10.5	8.0	20.1
10	7.2	6.8	6.4	9.8	15.6	9.4	18.5	21.2	39.0	50.6	29.7	28.7	24.4	32.0	20.1	27.9	24.0	11.5	19.5	11.9	25.0	8.9	8.9	8.6	19.4
11	7.8	6.9	16.5	11.0	23.6	7.9	18.8	22.9	52.4	26.7	27.8	14.0	18.7	25.2	24.0	18.9	29.4	14.6	12.4	9.2	9.7	9.8	9.7	11.1	17.9
12	7.9	9.2	11.1	16.9	7.8	9.5	18.4	18.2	15.5	21.4	21.5	25.1	26.1	19.1	17.5	19.0	13.0	13.1	8.3	5.8	9.9	7.4	12.6	12.4	14.5
13	6.3	20.3	11.8	14.9	10.2	11.1	13.8	17.1	18.2	35.5	25.6	34.7	42.3	33.0	37.0	36.1	48.9	39.3	9.5	8.9	11.9	12.1	9.4	15.4	21.8
14	15.7	30.1	10.9	6.8	8.2	17.7	14.1	23.7	26.5	22.2	18.7	36.8	31.4	32.1	38.9	23.5	14.4	26.2	15.4	9.8	9.9	6.8	9.5	9.1	19.1
15	7.7	9.8	8.0	9.1	8.3	9.0	10.1	12.0	12.1	14.0	14.8	17.5	17.0	12.8	18.6	27.1	17.8	11.1	10.6	36.1	15.8	18.1	48.8	33.4	16.6
16	13.3	14.3	20.8	27.1	30.4	22.5	22.2	42.0	31.0	16.5	21.4	28.3	30.5	24.2	20.0	19.1	13.1	12.7	8.3	8.8	18.5	8.1	30.5	21.5	21.0
17	12.3	36.2	19.4	43.0	8.8	28.6	13.5	39.2	13.6	14.7	22.6	21.0	14.0	21.1	20.1	20.1	20.7	14.8	9.4	12.6	11.6	7.6	10.5	9.5	18.5
18	8.8	10.9	10.3	8.8	8.7	8.4	9.1	9.6	10.9	18.6	36.1	37.7	17.4	19.6	26.4	17.6	12.8	10.4	8.8	16.6	27.2	8.9	12.5	9.2	15.2
19	10.7	9.9	8.5	10.2	3.9	23.1	8.2	11.8	25.2	14.3	15.2	14.5	12.3	22.6	26.1	32.5	10.8	18.7	10.0	6.8	7.0	25.1	19.5	24.6	15.5
20	15.3	26.0	22.1	26.5	15.9	64.0	13.1	36.5	14.3	12.0	14.5	18.9	13.9	12.3	12.6	12.7	12.9	14.0	17.9	9.7	8.8	10.1	10.2	7.3	17.6
21	9.8	7.5	7.2	8.4	8.7	11.6	7.1	14.1	21.9	23.7	32.1	37.7	34.6	41.5	37.9	42.8	30.4	14.1	10.5	10.4	11.2	38.2	20.0	8.8	20.4
22	8.6	8.6	11.0	8.4	6.6	15.6	11.6	10.0	14.0	16.1	18.7	21.5	23.1	22.4	24.4	16.5	15.8	12.0	9.5	13.4	23.2	22.5	27.5	25.6	16.1
23	16.2	11.0	7.6	12.2	8.4	8.2	8.1	9.1	8.6	9.1	9.6	12.3	13.8	16.4	16.6	33.7	33.7	18.6	22.0	13.3	20.9	11.1	16.1	12.0	14.5
24	6.7	8.5	8.5	15.5	13.7	9.1	10.7	12.4	17.9	14.7	12.2	14.6	21.0	26.0	25.5	23.0	19.5	9.6	11.4	18.6	15.0	10.8	8.5	8.8	14.3
25	9.2	15.5	10.8	7.9	5.6	9.8	23.9	28.7	46.8	44.7	58.5	41.2	47.1	36.4	20.1	12.3	12.3	9.7	12.2	23.5	11.9	7.3	14.8	15.0	21.9
26	17.7	10.7	10.4	16.2	6.4	11.6	14.1	21.9	31.0	23.8	18.7	20.9	21.0	21.7	20.8	18.9	18.5	13.6	8.8	6.0	7.9	5.9	4.4	6.0	14.9
27	7.9	8.1	7.3	8.7	11.4	13.2	10.4	13.8	11.5	12.6	12.2	20.5	26.4	22.2	25.0	22.0	19.4	16.7	22.1	7.3	7.3	9.1	14.7	8.9	14.1
28	8.6	15.3	6.0	4.8	6.3	9.5	10.9	20.5	23.8	41.9	50.2	40.9	41.7	42.5	26.8	24.8	14.5	11.1	8.7	10.6	14.4	10.5	11.1	8.7	19.3
29	6.3	24.3	27.3	7.7	8.0	6.5	6.9	19.2	22.5	30.7	27.1	50.8	37.9	17.9	29.8	29.8	35.6	29.4	18.9	5.6	7.0	28.1	11.0	11.4	20.8
30	9.2	13.4	6.6	7.6	7.4	15.4	14.7	11.8	18.9	14.1	19.7	19.7	32.1	28.0	17.1	12.9	13.2	22.7	22.6	13.2	19.6	13.3	9.0	15.5	15.7
31	10.4	9.2	7.6	8.1	9.8	8.3	10.8	10.9	15.0	43.0	35.3	15.8	20.9	28.9	17.2	19.0	22.6	17.6	13.5	10.6	9.2	6.3	10.4	9.0	15.4

MONTHLY AVERAGE = 17.50

WIND GUST FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN MILES PER HOUR

	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	MAX
1	7.2	10.1	12.0	6.2	5.9	1.8	8.0	9.2	7.1	8.8	7.3	9.1	7.6	7.2	5.9	9.0	5.4	3.5	3.6	4.4	8.3	8.2	4.5	4.6	12.0
2	6.5	6.5	3.4	5.6	4.4	3.9	4.5	5.7	5.6	6.0	8.5	7.9	7.7	12.9	11.8	11.8	8.4	8.4	6.5	13.3	10.9	11.9	9.7	8.4	13.3
3	10.6	11.9	8.5	11.8	21.9	28.9	25.2	22.5	25.7	29.6	25.3	25.3	26.4	25.5	23.7	26.9	25.1	21.6	19.2	16.2	11.9	7.6	5.0	4.4	29.6
4	5.7	8.8	10.6	8.9	9.4	8.1	3.9	6.6	11.9	12.6	10.1	12.6	13.7	14.9	13.6	13.7	14.3	13.6	11.9	9.3	9.2	15.7	16.2	13.9	16.2
5	13.8	10.2	7.4	7.3	5.4	6.0	3.3	4.1	5.3	7.7	8.4	10.0	13.5	13.6	14.4	13.9	12.3	10.2	8.8	8.5	11.3	15.3	14.3	7.4	15.3
6	8.5	7.0	4.3	5.7	5.9	4.6	5.0	6.2	4.8	6.4	10.5	13.6	13.1	11.2	12.6	12.0	10.5	10.4	9.3	9.8	14.1	15.1	14.7	12.6	15.1
7	8.5	7.0	6.0	7.7	11.3	9.9	10.0	7.1	7.8	8.3	10.5	15.1	14.4	13.4	12.5	13.7	12.3	13.4	9.3	9.7	9.8	13.5	14.2	16.0	16.0
8	11.6	12.9	8.9	7.2	7.1	5.4	5.7	7.2	5.3	6.2	8.6	10.4	11.7	13.8	12.9	14.1	13.9	10.4	10.5	6.5	14.0	14.8	14.4	10.9	14.8
9	8.5	7.0	7.2	6.8	5.5	4.4	7.2	6.4	4.0	5.6	9.3	10.3	9.7	10.5	10.7	9.9	10.1	10.4	8.9	8.0	7.5	9.4	8.9	8.2	10.7
10	6.8	7.2	7.6	4.9	6.5	4.8	4.2	4.6	4.9	4.8	6.0	9.8	9.8	11.7	11.3	10.5	10.5	11.5	10.1	7.7	8.7	10.1	11.9	11.7	11.9
11	8.8	4.8	3.9	4.0	3.4	2.6	4.3	4.5	5.3	8.3	13.4	14.4	12.9	13.6	12.5	12.2	12.9	10.9	7.9	8.1	9.1	14.5	13.9	13.9	14.5
12	14.2	11.0	9.4	6.2	7.3	6.1	5.8	6.8	7.4	10.5	10.4	10.7	9.8	11.0	13.0	13.5	14.9	11.6	10.5	10.0	8.1	9.2	7.1	5.0	14.9
13	6.4	8.2	3.3	5.9	6.5	6.6	6.9	8.1	6.9	5.3	4.7	6.4	8.2	10.0	9.3	8.4	6.9	7.9	7.0	6.0	3.9	3.8	3.5	3.4	10.0
14	3.9	3.3	6.5	5.5	5.8	4.3	5.3	5.3	4.7	6.2	8.0	6.5	7.8	8.4	10.2	9.8	7.9	7.1	7.8	4.8	3.5	8.0	6.8	8.6	10.2
15	7.1	8.1	11.5	14.7	15.5	23.5	24.0	21.9	22.2	18.0	15.4	18.0	22.3	21.3	14.9	11.6	6.2	12.7	9.4	7.3	7.6	6.3	6.1	3.2	24.0
16	6.8	5.7	5.6	7.1	4.3	5.7	4.1	5.0	8.6	14.6	11.1	10.4	10.8	12.5	14.3	15.6	15.5	12.7	11.9	9.1	5.1	6.2	5.2	5.9	15.6
17	4.1	8.7	8.1	6.6	8.6	4.1	8.1	4.6	5.3	4.9	6.0	8.1	9.2	8.1	6.9	6.9	7.6	10.8	9.7	10.4	10.5	5.9	7.0	13.2	13.2
18	16.0	13.4	14.3	12.5	8.3	11.9	5.9	6.4	6.7	5.9	6.1	8.6	9.3	9.4	8.7	8.4	7.8	7.9	7.4	5.6	4.8	8.5	5.7	4.3	16.0
19	3.9	3.8	3.7	4.1	6.4	8.5	9.4	10.4	9.9	13.3	12.8	15.8	14.8	13.2	13.7	9.9	10.3	18.0	9.1	5.7	5.2	4.3	6.4	6.4	18.0
20	8.5	7.0	11.8	11.2	8.9	9.5	13.4	12.3	9.3	10.4	11.4	11.6	14.9	11.8	15.9	14.7	16.0	8.1	9.9	7.7	8.0	8.6	8.3	3.9	16.0
21	4.4	4.3	4.0	4.3	3.9	4.8	4.9	4.6	5.5	6.5	6.9	7.1	9.7	11.5	10.2	10.2	10.2	9.4	8.5	8.3	4.1	3.5	2.2	5.1	11.5
22	8.1	6.7	7.7	6.8	6.8	7.3	6.6	7.6	8.8	9.8	9.3	10.5	11.9	10.5	10.9	11.2	11.0	18.0	17.5	15.0	13.0	15.1	11.3	9.8	18.0
23	5.9	7.3	9.8	8.6	8.9	11.5	11.6	11.3	10.8	11.4	11.9	12.8	9.4	12.2	8.6	5.0	7.3	6.0	4.6	3.8	5.3	6.6	11.3	12.8	12.8
24	14.7	14.4	15.4	12.9	10.9	12.6	12.3	9.9	8.5	14.2	15.9	15.9	14.3	16.0	14.8	14.2	12.5	13.4	13.2	13.9	12.0	15.1	10.6	9.5	16.0
25	8.2	4.8	5.1	4.6	2.3	3.5	2.5	3.7	6.6	8.2	7.4	9.3	11.0	13.4	12.5	12.1	11.9	11.8	9.8	9.1	8.0	7.0	5.7	5.7	13.4
26	4.6	3.7	4.3	4.4	4.4	2.6	4.2	5.0	6.1	9.0	10.5	9.8	10.5	9.5	10.5	10.5	12.0	9.9	8.1	8.8	10.9	10.0	7.8	8.9	12.0
27	8.8	9.1	7.4	9.3	8.0	9.5	9.3	9.0	6.1	10.8	11.0	10.3	9.8	9.0	6.2	6.6	6.8	5.7	6.1	8.1	8.8	9.6	8.1	6.1	11.0
28	4.7	3.7	3.4	3.9	5.3	5.2	4.3	3.6	3.0	4.8	5.8	10.1	8.7	9.1	8.0	9.2	9.8	9.1	7.7	5.9	3.4	3.0	2.8	4.0	10.1
29	6.2	5.3	4.7	6.5	6.6	4.6	3.6	3.8	4.4	5.5	7.3	6.4	10.2	11.4	8.8	11.8	10.2	6.6	9.1	5.2	3.2	8.4	7.3	7.5	11.8
30	6.6	4.3	6.8	8.1	9.0	5.4	7.3	7.8	10.6	7.8	8.1	9.6	8.2	7.3	8.6	9.9	6.8	4.5	3.0	3.1	3.7	5.4	7.9	6.8	10.6
31	7.3	10.0	11.1	9.2	9.2	11.8	12.6	8.1	9.1	6.4	10.1	12.2	11.4	8.5	10.6	13.3	10.5	9.0	7.6	6.4	3.6	7.2	15.5	15.7	15.7

MONTHLY MAXIMUM = 29.57

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN DEGREES C

	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	13.9	13.3	12.9	12.8	12.4	12.3	12.3	12.3	12.5	12.4	13.3	13.7	14.3	15.7	16.0	16.1	16.6	16.5	16.2	15.5	14.8	14.4	14.2	13.2	14.1
2	12.1	11.6	11.6	11.6	11.8	11.8	12.2	12.8	13.6	14.3	14.9	15.7	16.7	17.3	17.2	16.6	16.3	15.9	15.5	14.5	13.7	12.7	11.5	11.1	13.9
3	11.1	10.8	10.7	10.8	11.1	11.2	11.1	11.3	12.1	13.2	12.7	13.4	14.9	15.9	16.0	15.9	15.5	14.9	14.2	13.8	12.7	11.8	10.9	9.8	12.7
4	9.2	8.9	9.2	8.8	8.6	9.0	10.8	12.6	13.8	14.9	15.6	16.8	17.0	17.9	18.7	19.0	19.1	18.8	18.1	16.9	14.9	13.8	13.4	12.1	14.1
5	11.2	10.4	9.9	9.8	9.5	10.9	12.4	14.7	15.9	17.6	18.8	20.0	20.9	21.5	22.3	22.6	22.8	22.7	21.9	20.5	18.5	17.4	16.3	15.1	16.8
6	13.6	13.0	13.0	13.3	12.6	13.1	14.5	15.1	16.9	18.5	19.8	20.7	21.8	22.8	23.6	24.1	24.2	23.9	23.1	21.0	19.2	16.9	15.4	14.6	18.1
7	13.8	13.3	12.8	12.1	11.5	11.9	13.2	15.4	17.0	18.9	20.8	22.3	23.3	24.2	25.1	25.8	25.6	25.1	24.2	23.0	20.8	19.4	18.5	16.6	18.9
8	15.8	15.3	15.2	14.4	13.9	15.3	16.5	17.9	19.5	21.1	22.2	23.3	24.4	26.0	26.9	27.1	26.3	25.3	23.9	22.5	21.3	19.9	19.1	18.8	20.5
9	18.0	17.1	15.5	14.7	14.0	13.7	14.1	14.3	15.2	16.7	18.5	19.6	20.5	21.7	22.4	23.5	24.1	24.0	23.4	22.0	20.4	19.4	17.5	15.6	18.6
10	14.5	13.9	13.2	12.8	12.3	11.6	11.8	12.4	13.1	14.4	15.1	16.4	18.1	19.4	20.7	22.1	22.6	22.6	21.8	20.2	19.0	17.4	15.6	14.9	16.5
11	14.8	14.2	14.6	14.4	13.7	14.5	15.6	17.2	19.1	21.1	22.5	23.5	24.5	25.2	25.7	25.9	25.9	25.6	24.8	23.3	21.5	20.2	18.5	17.1	20.1
12	15.9	15.6	15.7	15.5	14.7	14.1	14.6	15.8	17.5	19.0	19.5	20.9	22.4	23.2	23.9	24.8	25.1	24.3	22.6	21.0	19.5	18.2	17.0	16.2	19.0
13	15.4	15.0	14.6	14.2	13.5	13.6	14.1	14.4	14.3	14.8	15.4	16.7	18.5	19.5	20.5	21.4	22.2	22.0	20.8	19.7	18.9	18.0	17.3	17.2	17.2
14	16.7	16.6	16.0	15.7	15.3	15.1	15.1	15.3	16.0	16.6	17.0	18.5	19.7	21.3	22.4	22.2	21.9	22.7	22.9	22.1	20.9	19.7	18.5	17.0	18.6
15	16.1	15.5	15.2	14.5	14.2	13.6	13.4	13.6	13.7	14.0	15.0	16.6	17.3	17.3	17.5	17.4	16.9	16.8	16.0	15.6	14.5	14.3	13.9	13.4	15.3
16	13.2	13.0	12.9	12.6	12.3	12.5	13.7	14.2	16.1	18.1	19.7	20.7	22.2	23.3	24.2	24.6	24.5	24.2	22.8	21.6	20.6	19.8	18.8	17.9	18.5
17	17.9	17.1	17.3	17.0	16.7	17.0	16.8	17.1	17.4	18.5	19.5	20.2	20.5	20.8	20.8	21.1	21.9	22.2	21.6	19.9	18.1	17.8	16.6	16.4	18.8
18	15.6	15.2	14.4	13.9	14.0	13.9	13.9	14.2	14.8	15.5	16.6	17.8	18.1	18.5	19.0	19.2	19.1	18.7	18.3	18.0	17.6	16.8	16.2	15.9	16.5
19	15.6	15.4	15.2	14.9	14.6	15.0	15.4	16.1	18.2	19.8	19.9	20.4	21.3	22.7	23.7	24.8	23.6	22.5	21.6	20.6	20.2	19.4	18.8	17.8	19.1
20	17.8	17.8	16.9	16.7	16.1	15.6	14.8	13.9	13.8	14.0	15.2	16.2	17.0	16.8	16.4	16.1	16.3	16.0	15.8	15.7	15.2	15.1	15.0	14.9	15.8
21	14.9	15.0	14.9	14.9	14.8	14.9	15.2	15.7	16.3	17.1	18.0	19.1	20.4	21.1	21.2	22.2	22.3	22.0	21.4	19.9	19.0	17.9	17.4	16.2	18.0
22	14.8	13.8	13.1	12.4	12.3	11.9	11.7	12.1	13.0	13.5	14.6	15.6	14.3	14.8	15.6	16.2	16.7	16.5	15.9	15.0	12.8	11.9	11.0	10.9	13.8
23	10.7	10.8	10.9	10.7	10.6	10.7	11.0	11.7	12.4	13.2	14.1	14.8	15.3	16.4	16.1	16.7	17.3	17.4	16.3	16.0	15.3	13.4	13.1	13.4	13.7
24	13.1	12.8	12.1	11.9	11.5	11.4	12.5	13.6	15.6	17.0	18.1	19.1	20.1	21.0	21.4	21.5	21.4	20.6	19.3	17.9	16.7	15.9	14.9	14.3	16.4
25	13.8	13.7	12.5	13.1	13.1	13.4	14.9	16.4	17.8	19.6	21.0	22.4	23.4	24.3	25.0	25.2	25.3	24.9	23.8	22.4	21.0	19.5	18.8	17.7	19.3
26	16.9	16.2	16.4	15.7	15.3	14.9	15.4	16.5	18.2	19.6	20.6	21.6	22.7	23.7	24.5	25.3	25.3	24.8	24.1	22.1	20.0	18.0	16.2	15.1	19.5
27	14.7	14.4	14.0	13.6	13.6	13.5	13.1	13.1	13.6	14.2	15.0	14.8	16.0	15.9	16.6	17.0	17.2	17.3	17.2	16.7	16.1	15.5	15.0	14.6	15.1
28	14.0	13.8	13.9	13.8	13.5	13.4	13.5	13.9	14.1	15.3	16.4	17.5	18.0	18.8	19.8	19.7	19.6	19.3	18.8	18.0	17.0	16.3	15.9	15.4	16.2
29	14.9	14.7	14.6	14.0	13.7	13.6	14.0	15.1	16.0	17.0	17.9	19.0	19.5	19.9	20.1	20.3	21.1	21.2	20.5	19.3	18.1	16.9	15.7	14.8	17.2
30	14.2	13.9	13.7	13.3	12.9	12.7	12.9	13.3	13.9	14.1	14.6	15.3	16.0	16.4	17.0	17.2	16.9	17.0	16.8	16.5	16.5	16.2	15.6	14.9	15.1
31	14.1	13.6	13.2	13.1	12.8	12.9	13.1	13.7	14.8	16.2	16.7	17.4	18.1	18.9	19.0	19.6	20.6	20.3	19.9	18.3	16.9	15.6	14.1	13.6	16.1

MONTHLY AVERAGE = 16.88

PRECIPITATION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN INCHES

	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	TOT
1	0.00	0.00	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	0.02
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	0.05	0.05	0.03	0.13
3	0.10	0.04	0.06	0.22	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	0.44
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	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	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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	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	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	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	0.00	0.00	0.00	0.00	0.00
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	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
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	0.00
15	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	0.00	0.00	0.00	0.00	0.02
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	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	0.00
18	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	0.00	0.00	0.00	0.00	0.00	0.01
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	0.00
20	0.00	0.01	0.02	0.00	0.00	0.01	0.02	0.15	0.08	0.06	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	0.37
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	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	0.04	0.06	0.02	0.12
23	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	0.00	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	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	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	0.00
27	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	0.00	0.01
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	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	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	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	0.00

MONTHLY TOTAL = 1.17

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF JULY , 2012

IN MPH/DIR

	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
1	5W	6W	8SW	2SW	1N	0N	4SE	5S	4SE	4S	4S	3S	4SE	3S	2W	4SE	2E	2E	2S	2N	4NW	4NW	2NW	2N
2	3NE	3NE	2NE	3SE	3S	2S	3S	3S	2S	2S	3W	3SW	4SW	6W	8W	7W	6W	5W	3SW	8W	4W	7SW	6SW	4S
3	6S	7S	6SE	6S	11S	15SW	16SW	15S	14SW	17SW	16SW	14S	16SW	17SW	16SW	18SW	17SW	15W	10SW	9SW	8SW	5SW	1NE	3NE
4	3NE	5NE	7NE	6NE	6NE	3NE	1SE	2NE	7NE	7NE	4NW	5NW	6NW	9NW	9NW	9NW	9NW	9NW	8NW	5N	5NE	9NE	11NE	9NE
5	10NE	6NE	5N	5NE	4NE	2N	2NE	2NE	2NE	3N	3N	4NW	7NW	9W	9W	9W	8W	6NW	5NW	5N	6N	10N	8NE	4E
6	5NE	4NE	2E	3SE	4S	3SE	2S	3S	2SW	3SW	6W	8W	7W	7W	6W	6NW	7W	7W	7NW	5NW	9NE	9NE	9NE	7NE
7	5NE	4NE	4NE	5NE	6NE	6NE	6NE	4NE	4NE	3NE	5NE	8N	8N	9NE	8N	9NW	7N	8N	6NW	5N	6N	9NE	8NE	9NE
8	7NE	7NE	4NE	4NE	5NE	3NE	3SW	4W	2W	3N	4NW	6W	7W	7N	7N	9NW	10W	7W	7W	4NW	6N	10NE	8NE	5N
9	3S	3S	4W	4SW	3SW	2SW	4SW	3SW	1NE	2SW	3SW	6W	6W	6W	7W	6W	6W	7W	6NW	6NW	4NW	5W	6W	7SW
10	5SW	5SW	5SW	3SW	5SW	3W	3W	3SW	2W	1W	3W	5W	6W	6W	7W	5NW	6N	8NW	6N	3NW	4N	6NE	8NE	8NE
11	5NE	4NE	2E	2S	1W	1NW	2S	3SW	2NW	4N	8NW	10NW	8NW	7NW	8NW	8NW	6N	7NW	5N	4N	5N	8NE	8NE	9NE
12	9NE	7NE	4NE	3S	5S	4S	3S	4SW	5SW	7W	6W	6SW	6W	7W	8W	9NW	9NW	9W	8W	7W	2SW	5SW	3W	3SW
13	5SW	4SW	1W	3SW	4S	5S	4SW	5SW	4SW	2S	2NW	2SW	3W	5NW	5NW	4NW	2NW	4W	5NW	3NW	3NW	2NE	2E	2NE
14	2NW	1SW	4S	4S	3S	2S	3SE	2S	2SW	3SW	5SW	3S	4S	3SW	4W	5W	5W	3S	4SW	2W	1W	4W	4SW	5SW
15	4SW	5SW	7S	9S	7S	15SW	14S	11S	12SW	10S	8S	10S	14SW	13SW	8SW	7SW	4W	8W	6NW	2N	4NW	3N	2SW	2N
16	2E	3E	2NE	3N	2NE	2E	1SE	2NE	4N	10N	5N	5N	5NW	7N	8N	9N	10NW	8W	9NW	6NW	3SW	4NW	3N	3SE
17	3NE	4SW	3W	3S	5S	2SE	5S	2S	3S	3S	3SW	5W	5W	5W	4SW	4SW	4SW	7S	6SW	6W	6SW	4SW	5SW	8S
18	7S	8SW	7S	6S	5S	8S	4SE	4SE	4SE	3SE	2SW	5W	6SW	6SW	4SW	5W	6W	5W	5NW	2W	2NW	6SW	3W	3W
19	3SW	3SW	2SW	2NW	4NW	4N	7NE	5NE	4NE	8NE	8NE	9NE	9NE	7N	7N	4NW	7W	8NW	5W	4NW	1NE	2E	4S	3SE
20	6S	4SE	4W	5SW	4SW	4S	9W	6SW	5S	5SE	7S	7S	8SW	8SW	8SW	7SW	8SW	5SE	5SE	5SE	5SE	5SE	5S	2SE
21	2SE	2SE	3SE	3SE	2SE	3S	3SE	3SE	3S	3S	3S	3SW	5S	4SW	4NW	4SW	5W	6W	6W	6W	1N	2S	1S	3S
22	5SW	5S	4S	4S	4S	4S	4SE	5SE	6SE	5SE	5SE	6SE	8W	5SW	6S	7S	7SW	11SW	9SW	9SW	7NE	9N	5N	5NE
23	3S	5S	6S	5SE	6SE	6SE	7SE	8S	7SE	8S	8S	8S	6S	7S	5SW	2SE	3SW	3SW	3NW	2N	2N	4NE	6NE	7NE
24	11NE	10NE	10NE	8NE	7NE	8NE	7NE	6NE	5N	9NE	10NE	10NE	8N	8N	8N	8N	8N	10NW	9NW	7N	7N	8NE	7NE	6NE
25	5NE	3NE	3NE	2E	1SE	2N	1NE	1S	2W	3NE	4N	5N	5W	6W	7W	8W	9W	8W	7NW	4N	4N	5NE	3NE	3NE
26	2E	2E	2SE	2SE	3S	1SW	2S	2SW	3SW	5SW	6W	6W	6W	6W	6W	6W	7W	7W	6W	7W	7W	7SW	5W	6SW
27	6SW	6S	5S	5S	6S	6S	6S	6S	4S	6S	7S	6SW	5S	4W	2SW	4SE	4SE	3SE	2S	5W	6W	6W	4W	3W
28	2W	2W	2NW	3NW	3NW	3W	2W	1W	1NE	1SW	2N	3W	3W	4W	5W	5W	7W	6W	5W	4W	2NW	2NE	2NE	2NE
29	4NE	4NE	2N	4NE	4NE	3NE	2NE	1E	2SE	2N	4W	3W	5W	7W	4W	6SW	4W	3W	5SW	3W	1NE	2SE	4SW	3S
30	5S	3S	4S	6SW	6SW	3S	4S	6S	6S	5S	5S	6S	4SE	4SW	5SW	7SW	4SW	2SW	1S	1S	2SW	3SW	5W	3N
31	4NE	6NE	6NE	5NE	6NE	7NE	8NE	5NE	6NE	3N	5W	7NW	6NW	5N	4NE	6N	6NW	5NW	5NW	5NW	2NE	5NE	9NE	11NE

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN MILES PER HOUR

	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	7.6	6.8	5.9	4.9	3.5	4.2	5.2	4.1	4.8	5.5	4.0	4.8	6.5	6.3	6.3	5.6	5.7	6.2	5.8	4.9	3.3	4.6	4.0	4.8	5.2
2	4.0	1.8	2.9	3.4	3.3	3.7	3.2	2.6	3.5	3.7	4.0	6.8	7.2	6.7	7.0	5.9	6.3	5.8	6.0	7.1	4.5	8.6	8.9	9.1	5.3
3	7.6	7.9	9.6	6.5	4.9	3.6	3.8	2.6	4.1	4.9	6.8	7.7	5.9	7.7	7.9	7.8	6.7	5.9	5.5	5.2	8.6	7.6	7.5	6.5	6.4
4	6.8	8.1	5.3	5.8	6.2	7.3	5.2	6.9	9.1	6.6	7.6	7.5	9.5	9.8	9.3	10.1	9.3	5.8	4.4	7.3	6.9	6.0	3.9	2.1	7.0
5	2.6	4.0	3.4	3.0	3.3	1.3	2.1	2.6	3.3	3.1	4.0	4.7	5.5	6.4	7.9	7.7	6.5	6.7	4.9	5.5	5.6	5.6	6.6	2.9	4.5
6	2.3	4.5	3.0	3.0	6.5	3.0	3.4	2.6	3.6	4.2	7.4	3.8	4.2	4.8	7.1	6.0	5.0	5.4	6.5	6.4	2.8	4.3	3.7	2.6	4.4
7	5.6	3.4	5.0	4.9	2.4	1.2	2.5	3.1	5.4	3.2	3.1	4.1	3.8	5.8	4.5	5.3	5.1	5.9	5.7	4.9	5.7	6.7	4.9	8.3	4.6
8	4.7	4.8	5.9	5.7	5.9	6.2	5.7	4.8	4.2	5.2	3.9	3.2	4.0	3.0	4.0	3.3	2.1	1.4	1.6	2.0	3.2	2.4	3.1	4.8	4.0
9	4.8	7.3	9.4	8.6	8.2	8.4	4.6	5.6	8.6	7.8	11.2	9.7	8.1	9.1	8.1	10.4	7.0	7.8	7.1	7.5	5.7	4.8	7.6	10.2	7.8
10	8.6	6.4	4.0	3.1	2.6	2.0	2.8	1.9	3.8	6.1	6.9	9.4	8.9	10.2	9.5	10.4	9.0	8.3	6.3	5.6	5.0	5.3	3.6	2.6	5.9
11	0.3	1.2	2.6	2.2	0.9	1.7	1.0	1.7	2.8	2.9	7.0	8.3	8.8	10.0	9.1	7.3	6.5	6.2	7.5	5.1	6.7	9.6	7.5	8.2	5.2
12	8.0	7.7	4.8	2.8	3.8	2.8	2.8	1.8	1.9	3.9	4.0	5.8	9.2	9.1	9.1	9.9	8.6	5.9	6.7	4.8	5.4	7.8	6.4	6.6	5.8
13	4.0	4.5	3.6	1.1	2.3	2.5	1.4	1.4	2.1	3.0	4.1	5.8	6.5	7.6	8.8	9.7	9.6	10.1	9.9	12.3	12.3	10.5	8.8	3.5	6.1
14	4.8	9.7	8.2	4.2	2.5	0.5	1.3	2.6	2.9	3.0	4.4	7.5	8.4	7.0	6.2	9.5	11.1	8.4	7.0	9.1	12.8	12.1	12.1	8.8	6.8
15	10.1	8.8	6.0	7.1	8.0	5.7	7.1	6.5	5.3	8.1	10.5	11.0	10.8	12.2	13.1	7.8	5.9	4.9	5.5	5.6	10.7	9.6	8.3	7.2	8.2
16	5.4	6.1	5.1	5.0	3.5	3.9	4.5	1.9	3.7	4.1	4.5	5.9	5.5	7.2	6.3	5.6	5.3	5.5	5.0	5.2	4.7	7.4	4.2	3.2	5.0
17	2.1	4.4	4.1	5.2	3.6	3.6	3.4	2.4	2.6	2.1	4.6	5.4	5.0	4.6	6.2	6.7	4.9	4.2	2.8	3.3	6.3	4.3	1.9	4.3	4.1
18	3.5	3.2	4.3	6.0	3.3	2.2	2.8	3.5	3.7	3.1	3.9	5.0	6.4	4.0	4.3	3.4	6.5	4.4	6.2	5.7	8.0	5.6	4.4	7.7	4.6
19	5.0	6.5	6.8	6.2	6.0	5.7	4.2	3.6	3.5	3.9	2.7	2.5	3.9	3.6	4.0	3.7	5.0	5.1	4.4	4.9	2.4	3.2	4.9	4.7	4.4
20	2.8	3.5	3.6	3.8	3.0	0.8	2.1	2.4	3.5	3.4	3.8	3.1	5.1	6.2	5.3	4.7	4.6	6.3	6.1	3.3	3.7	7.2	8.6	6.5	4.3
21	4.0	3.4	3.1	3.4	4.1	3.2	3.3	3.8	3.3	4.0	6.0	7.4	7.8	7.0	7.8	5.8	5.5	4.4	3.0	6.4	11.0	8.8	8.4	7.4	5.5
22	5.2	5.3	4.2	1.9	2.9	1.7	3.0	2.2	1.5	1.9	3.7	5.7	5.6	5.9	6.7	6.8	6.3	7.7	8.2	6.3	5.2	6.1	8.0	7.8	5.0
23	11.6	5.4	3.6	4.0	10.1	10.5	7.9	4.8	7.6	6.4	7.0	6.0	4.5	4.6	5.7	10.7	10.2	13.1	13.7	15.4	14.2	12.0	8.1	5.8	8.5
24	6.4	5.1	2.6	1.7	2.4	3.0	2.9	3.8	2.7	3.3	7.4	7.8	8.6	8.4	7.8	9.8	9.0	10.6	6.9	5.0	4.5	5.3	8.7	8.6	5.9
25	6.8	6.8	4.1	3.7	5.0	6.2	5.4	2.1	2.6	4.6	5.6	4.4	6.0	5.2	6.2	6.9	8.2	5.9	4.8	3.8	3.6	2.7	1.0	3.0	4.8
26	5.3	6.8	4.8	2.1	4.2	5.1	4.5	4.9	5.5	5.7	3.6	4.6	7.2	9.5	11.6	8.4	5.6	1.3	1.5	7.0	7.6	2.4	3.7	4.2	5.3
27	2.1	3.6	3.0	3.6	3.2	2.3	1.7	1.7	2.3	5.8	5.3	6.2	8.1	8.3	8.1	9.6	10.1	8.9	7.5	3.3	1.5	2.6	1.8	2.1	4.7
28	2.7	3.0	3.0	2.2	4.6	2.9	3.6	4.2	4.5	6.1	5.5	6.2	5.7	5.6	9.2	8.7	9.0	7.6	8.8	6.8	10.1	6.3	3.2	4.6	5.6
29	4.6	4.8	4.2	4.5	2.2	4.2	4.9	4.3	3.3	5.5	4.5	3.3	2.5	3.8	2.6	2.8	3.0	1.8	0.9	1.0	1.6	2.7	4.1	3.4	3.4
30	0.9	1.1	1.8	2.8	2.5	2.1	1.3	3.7	3.0	4.9	4.2	5.8	6.2	6.3	6.3	5.2	5.5	4.6	5.7	3.7	8.5	12.1	12.6	9.5	5.0
31	6.0	6.8	9.4	7.3	5.6	5.1	2.8	3.8	7.9	5.6	4.6	4.9	6.7	6.0	7.6	8.7	9.0	6.5	6.4	3.6	5.7	6.2	5.3	1.5	5.9

MONTHLY AVERAGE = 5.46

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN DEGREES

(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	36.	39.	34.	37.	49.	142.	138.	195.	203.	196.	225.	278.	260.	236.	240.	256.	296.	318.	323.	282.	346.	290.	223.	200.	202.
2	248.	261.	298.	253.	258.	250.	269.	265.	209.	202.	224.	311.	313.	319.	316.	323.	309.	318.	328.	307.	1.	19.	29.	24.	236.
3	20.	12.	20.	26.	37.	54.	34.	35.	46.	45.	43.	27.	358.	349.	4.	360.	17.	6.	333.	5.	8.	10.	24.	37.	80.
4	34.	30.	32.	33.	35.	31.	41.	40.	31.	35.	39.	32.	19.	22.	18.	13.	5.	353.	342.	26.	38.	50.	62.	93.	61.
5	56.	23.	12.	10.	241.	130.	44.	176.	191.	227.	252.	270.	265.	261.	258.	272.	293.	291.	291.	263.	258.	205.	202.	187.	195.
6	338.	249.	141.	122.	277.	207.	132.	152.	153.	130.	265.	243.	267.	298.	291.	307.	309.	308.	299.	298.	306.	17.	50.	196.	223.
7	193.	154.	204.	203.	174.	203.	278.	295.	268.	265.	267.	253.	200.	206.	174.	141.	118.	118.	123.	124.	246.	278.	254.	242.	208.
8	225.	186.	131.	124.	128.	130.	136.	138.	145.	144.	165.	131.	338.	270.	281.	265.	257.	47.	22.	27.	12.	12.	45.	37.	142.
9	30.	36.	31.	35.	34.	39.	59.	33.	37.	40.	31.	24.	8.	327.	357.	327.	307.	304.	306.	325.	21.	31.	33.	31.	117.
10	32.	41.	45.	61.	212.	214.	169.	184.	15.	323.	321.	3.	349.	320.	317.	310.	301.	293.	297.	355.	25.	52.	62.	74.	182.
11	44.	64.	49.	60.	186.	177.	284.	268.	38.	30.	36.	19.	29.	331.	333.	353.	358.	353.	355.	351.	3.	14.	19.	18.	157.
12	26.	54.	34.	49.	21.	35.	51.	336.	336.	11.	19.	301.	338.	332.	345.	339.	333.	344.	328.	359.	23.	19.	22.	20.	170.
13	43.	43.	41.	230.	227.	166.	201.	205.	98.	68.	304.	278.	283.	283.	305.	348.	349.	358.	26.	31.	36.	39.	32.	10.	167.
14	59.	36.	37.	96.	152.	116.	101.	184.	189.	215.	335.	4.	326.	344.	338.	20.	24.	5.	332.	346.	27.	25.	27.	22.	140.
15	33.	32.	29.	41.	35.	32.	34.	32.	43.	34.	32.	28.	21.	21.	6.	354.	331.	331.	4.	26.	23.	29.	34.	31.	67.
16	41.	31.	18.	30.	352.	353.	30.	16.	346.	17.	358.	320.	336.	296.	312.	333.	323.	351.	334.	43.	46.	47.	53.	165.	190.
17	196.	167.	145.	186.	192.	178.	191.	222.	206.	293.	294.	277.	279.	282.	264.	272.	280.	286.	321.	19.	32.	44.	328.	190.	214.
18	178.	219.	192.	211.	193.	183.	209.	203.	192.	182.	212.	201.	184.	159.	208.	261.	339.	316.	295.	222.	201.	179.	177.	214.	214.
19	162.	160.	160.	197.	274.	287.	258.	244.	230.	240.	216.	181.	119.	209.	233.	210.	119.	150.	140.	146.	108.	24.	34.	50.	173.
20	63.	142.	144.	135.	127.	192.	219.	155.	183.	229.	255.	354.	343.	278.	270.	290.	278.	263.	271.	315.	45.	28.	40.	41.	194.
21	64.	62.	62.	124.	146.	156.	163.	178.	187.	197.	220.	258.	259.	224.	240.	207.	173.	167.	263.	352.	27.	36.	48.	61.	161.
22	48.	52.	51.	126.	164.	168.	174.	138.	50.	50.	63.	14.	306.	312.	300.	308.	307.	297.	315.	349.	17.	28.	34.	21.	154.
23	17.	51.	79.	55.	18.	16.	359.	21.	13.	14.	30.	40.	320.	262.	342.	22.	27.	27.	26.	25.	35.	45.	56.	41.	81.
24	44.	74.	120.	197.	159.	148.	130.	169.	206.	280.	10.	19.	17.	16.	15.	323.	350.	340.	332.	315.	352.	26.	26.	29.	154.
25	6.	33.	41.	24.	35.	36.	34.	49.	84.	43.	33.	26.	296.	314.	319.	316.	304.	302.	302.	31.	78.	63.	186.	178.	131.
26	148.	152.	152.	155.	169.	196.	207.	185.	149.	195.	215.	204.	251.	264.	258.	239.	240.	100.	128.	264.	262.	286.	254.	288.	207.
27	357.	322.	351.	332.	333.	19.	16.	61.	218.	210.	231.	278.	248.	233.	256.	280.	253.	261.	267.	333.	54.	183.	143.	220.	227.
28	130.	126.	150.	131.	184.	168.	188.	183.	183.	156.	184.	250.	237.	295.	279.	254.	256.	231.	221.	213.	240.	240.	194.	216.	204.
29	200.	201.	162.	179.	162.	184.	188.	182.	193.	115.	155.	192.	128.	96.	92.	117.	173.	100.	203.	70.	160.	163.	175.	172.	157.
30	78.	77.	107.	156.	198.	157.	192.	195.	206.	261.	227.	262.	252.	265.	249.	246.	305.	9.	355.	14.	21.	15.	26.	29.	163.
31	33.	33.	27.	31.	34.	45.	81.	33.	34.	35.	325.	311.	319.	336.	306.	294.	293.	307.	310.	6.	14.	7.	29.	109.	140.

MONTHLY AVERAGE = 164.80

SIGMA THETA FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN DEGREES

	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	9.4	8.6	8.6	9.1	17.8	9.8	11.9	16.2	17.0	15.8	41.0	32.2	26.7	27.0	24.0	23.6	23.5	15.4	7.8	9.6	27.4	13.3	8.8	11.1	17.3
2	8.1	16.6	13.2	10.3	10.1	9.5	12.8	21.6	24.7	26.0	37.5	28.9	19.8	19.0	26.7	24.9	14.8	11.8	10.5	4.0	14.1	9.6	12.6	7.1	16.4
3	8.4	8.7	5.3	5.9	11.5	22.7	8.9	21.9	16.8	13.6	13.9	23.8	35.8	27.4	16.6	32.2	20.8	23.3	17.6	16.7	10.5	8.5	7.6	7.3	16.1
4	8.2	8.2	12.0	9.0	9.1	11.2	10.7	11.4	12.5	10.1	13.8	21.2	12.2	15.2	13.9	12.2	14.0	17.2	23.3	10.6	7.9	11.3	8.9	12.2	12.3
5	12.4	13.4	13.5	14.5	12.9	12.2	15.4	21.6	25.1	29.4	30.9	35.5	30.5	20.2	15.9	16.9	17.7	12.0	11.3	9.4	9.0	11.3	6.2	26.2	17.6
6	24.2	9.2	24.4	32.6	12.4	23.9	13.1	21.8	24.4	39.5	13.4	31.2	38.1	38.4	24.4	21.1	20.6	20.4	9.2	7.0	39.1	35.2	24.6	11.4	23.3
7	8.1	8.7	11.6	7.0	11.6	27.2	22.2	27.0	10.0	19.9	22.4	21.3	36.7	16.1	22.0	15.6	13.0	10.7	11.1	9.3	27.2	8.9	14.0	7.3	16.2
8	9.9	16.3	9.7	9.3	8.2	8.1	11.7	10.8	18.2	16.6	25.6	39.8	21.5	41.2	22.6	34.6	33.6	34.7	16.7	10.1	13.7	19.1	9.2	9.9	18.8
9	9.2	5.7	7.3	7.7	8.2	8.3	16.9	12.3	11.7	13.2	13.0	22.2	19.6	17.5	23.6	13.2	16.9	8.8	8.6	10.0	12.9	12.7	10.1	11.2	12.5
10	9.4	8.0	9.6	23.5	10.9	14.0	15.2	31.0	28.0	28.0	23.2	19.2	23.3	21.1	18.2	11.8	13.5	10.8	7.2	13.9	7.6	8.4	12.2	39.2	17.0
11	6.7	11.5	8.1	10.9	30.9	11.5	25.1	34.2	41.6	40.7	14.1	20.1	18.4	20.5	24.1	27.5	22.6	15.6	14.6	17.7	12.8	6.4	8.7	9.4	18.9
12	9.0	9.9	6.8	10.0	7.3	4.9	10.7	26.2	47.5	37.3	31.1	28.4	16.5	21.0	16.3	17.0	16.8	14.3	6.6	15.1	21.0	6.3	5.6	7.3	16.4
13	12.1	8.9	25.4	33.6	13.2	17.0	14.6	26.0	38.2	30.6	44.8	20.7	16.7	20.4	15.7	16.8	12.7	12.2	12.6	14.6	15.9	13.1	21.3	44.3	20.9
14	49.2	7.8	7.8	19.0	18.5	24.2	44.1	28.6	25.7	29.7	58.0	38.6	23.5	25.9	34.4	20.3	12.1	12.3	11.2	10.2	8.3	8.7	7.6	10.6	22.3
15	8.4	8.1	15.7	8.6	7.2	8.3	10.5	9.2	12.4	12.8	12.7	13.4	13.6	12.8	13.6	21.5	33.2	34.2	32.4	28.1	10.6	29.2	9.5	8.3	15.6
16	9.8	9.0	7.9	7.4	20.0	18.4	8.6	28.4	26.3	20.4	36.2	20.2	25.8	23.6	23.9	29.3	27.7	19.0	19.2	8.2	7.9	6.5	9.6	40.0	18.9
17	13.7	9.1	8.3	7.8	8.3	7.9	8.2	15.5	24.4	42.9	24.7	19.9	24.7	28.2	20.0	15.1	20.4	17.1	19.7	19.5	7.8	11.2	36.0	46.8	19.0
18	23.7	37.4	13.0	5.7	11.7	22.7	17.0	19.1	21.5	30.2	35.7	28.6	26.5	23.8	32.6	50.6	19.9	48.0	55.7	26.2	7.3	12.2	9.9	8.8	24.5
19	11.1	12.4	11.6	8.1	10.9	9.3	11.3	14.5	13.3	17.1	22.8	32.5	22.6	31.2	29.0	29.2	32.1	25.2	9.4	6.9	34.1	8.6	8.4	8.2	17.5
20	17.5	9.6	19.6	10.5	13.0	14.7	39.8	23.1	25.0	49.8	44.0	45.6	46.2	39.6	31.0	37.5	26.6	22.0	5.9	20.1	9.4	9.9	9.6	14.7	24.4
21	13.1	11.5	21.7	23.5	8.9	9.6	12.2	17.0	25.9	25.2	23.2	20.6	25.2	16.7	12.5	14.2	16.1	12.4	26.4	11.0	12.8	13.7	13.1	14.8	16.7
22	16.8	19.7	12.5	22.6	11.3	10.7	16.8	25.0	28.0	32.2	41.9	25.0	31.4	32.6	26.9	28.2	21.9	11.5	5.6	8.1	11.6	12.2	14.0	19.3	20.2
23	12.4	30.7	35.6	26.4	9.9	10.3	11.4	18.6	15.8	14.5	13.0	24.0	29.7	41.6	44.7	11.1	12.0	11.6	11.8	10.2	10.1	14.1	16.9	15.0	18.8
24	12.3	14.4	20.8	7.1	32.2	10.2	10.4	10.7	17.1	35.5	18.8	24.6	25.0	26.4	24.9	17.8	17.4	14.3	16.3	21.8	32.1	18.4	9.6	7.4	18.6
25	13.8	8.2	10.0	11.9	8.5	7.5	9.1	40.0	31.0	21.4	18.1	31.3	38.8	32.7	31.3	22.4	10.6	13.6	9.8	17.6	10.6	24.3	27.5	17.5	19.5
26	19.9	10.3	18.0	31.6	8.9	5.5	8.2	17.6	19.3	14.9	42.6	28.4	28.6	19.4	14.1	12.5	32.5	7.1	29.4	6.5	22.6	23.7	15.6	15.6	18.9
27	20.3	8.5	11.9	13.4	11.3	14.2	16.2	22.3	52.5	37.0	28.4	34.0	26.6	24.2	25.1	17.3	13.1	14.6	9.5	15.6	19.4	8.9	34.9	43.4	21.8
28	19.0	24.5	19.2	22.4	9.1	10.5	11.8	12.8	26.3	19.7	26.3	30.8	31.8	46.9	21.1	18.1	10.1	10.7	7.7	8.7	9.2	12.9	30.4	12.3	18.8
29	7.6	10.0	14.5	11.2	14.6	8.8	7.7	15.2	28.7	17.6	30.1	43.4	42.4	20.9	39.0	19.5	20.2	7.9	8.4	17.4	12.1	14.6	11.4	20.8	18.5
30	24.5	23.0	24.9	12.7	11.5	20.7	22.9	10.1	21.1	21.7	26.4	27.2	23.7	33.7	27.3	33.9	32.8	18.2	14.3	23.5	14.9	13.8	12.7	10.9	21.1
31	8.7	8.3	12.4	10.4	15.0	8.4	13.4	23.0	11.7	22.3	34.6	40.6	34.1	19.8	15.2	15.9	15.5	9.8	5.1	11.4	9.0	11.9	18.1	30.8	16.9

MONTHLY AVERAGE = 18.57

WIND GUST FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN MILES PER HOUR

	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	MAX
1	11.3	10.0	8.8	7.7	6.4	6.8	8.1	7.2	8.0	8.7	10.1	9.7	12.3	10.9	12.0	10.5	12.7	10.6	8.7	7.3	6.7	7.9	6.5	7.5	12.7
2	6.5	3.2	4.1	5.7	5.3	5.0	5.3	6.0	6.5	8.3	8.6	12.7	11.6	12.1	12.6	12.4	9.8	8.6	9.3	9.4	8.7	13.7	14.6	12.8	14.6
3	11.2	12.9	14.7	10.0	11.0	8.1	6.1	5.2	6.6	8.7	12.2	13.6	13.6	13.8	15.3	12.9	12.9	11.6	10.1	11.1	13.9	12.2	11.5	9.1	15.3
4	10.6	12.2	9.9	9.1	11.6	12.3	11.0	15.3	17.5	10.4	13.5	14.2	15.6	15.9	15.8	17.2	14.1	12.1	7.9	11.6	10.8	10.5	6.2	5.2	17.5
5	4.7	6.7	5.2	4.6	5.0	3.9	3.4	5.5	6.1	6.3	9.1	9.1	9.7	12.4	11.4	11.6	9.7	9.0	7.9	10.4	8.2	8.1	8.9	9.7	12.4
6	5.3	6.6	5.1	6.8	10.1	6.7	5.3	5.4	6.7	8.8	11.4	8.1	8.0	10.5	12.0	9.6	9.3	8.7	8.9	8.8	9.0	10.0	9.1	5.6	12.0
7	8.4	5.1	8.4	7.8	4.3	3.8	4.7	7.7	8.1	5.6	7.1	8.8	7.1	8.5	7.9	8.6	7.3	9.5	9.7	7.8	8.9	9.5	8.6	12.3	12.3
8	8.2	9.0	9.4	9.0	8.0	8.3	8.8	7.2	7.3	8.9	7.0	7.1	7.7	6.5	7.7	6.3	5.1	4.2	3.2	3.6	6.3	5.8	7.4	8.1	9.4
9	7.7	11.3	13.1	12.9	14.2	12.1	11.0	10.5	14.3	12.9	17.0	16.1	14.3	14.8	13.3	15.4	10.9	11.1	10.2	10.3	10.8	7.2	13.2	17.6	17.6
10	13.2	10.2	7.1	5.5	4.6	3.2	4.1	4.8	9.4	12.2	12.4	17.9	17.7	16.7	17.9	15.8	14.1	11.1	9.0	8.7	9.5	8.0	6.5	5.8	17.9
11	2.7	3.3	4.4	4.2	2.2	2.9	2.6	6.1	8.8	7.5	11.3	14.2	14.4	16.4	15.3	12.9	15.9	12.1	12.2	10.6	11.7	13.5	10.9	11.9	16.4
12	13.1	11.1	7.5	5.4	6.2	4.1	5.1	3.9	5.0	8.8	7.4	12.1	15.4	15.2	14.8	15.0	12.7	11.7	9.3	9.6	10.1	12.9	9.9	9.2	15.4
13	6.2	6.6	6.2	3.1	3.3	3.7	2.9	3.8	5.7	6.1	9.7	10.5	10.9	13.1	13.7	15.8	15.1	16.9	16.5	22.3	26.4	20.2	24.2	10.1	26.4
14	9.9	13.6	11.7	9.4	5.6	2.5	3.1	4.8	6.5	5.6	9.4	13.2	13.1	13.1	12.4	16.0	18.9	13.0	12.1	16.2	16.8	17.6	16.8	17.2	18.9
15	15.3	12.2	12.1	11.1	12.6	9.1	11.2	11.7	8.8	14.6	15.7	16.5	17.3	19.2	19.3	18.7	12.6	14.4	14.9	11.2	15.6	18.8	17.3	12.1	19.3
16	9.2	9.5	8.5	7.2	6.4	6.9	6.8	4.2	6.4	6.8	9.8	10.4	11.1	12.6	11.2	9.4	10.2	9.1	8.9	7.8	7.4	10.0	8.3	6.0	12.6
17	4.7	6.1	5.9	7.8	4.7	5.4	4.4	4.1	5.3	5.3	7.8	9.2	10.7	9.4	9.9	10.4	8.1	6.6	5.1	7.3	9.9	7.9	3.5	7.8	10.7
18	9.2	7.2	8.1	8.8	6.6	4.1	5.3	6.0	8.6	7.2	8.1	9.0	11.9	7.1	9.9	8.2	11.8	11.8	12.5	10.6	11.9	8.5	8.1	11.3	12.5
19	7.3	11.5	10.9	9.3	8.5	8.2	8.3	6.0	5.6	6.4	5.8	6.1	7.1	8.6	8.3	7.2	9.3	9.4	6.7	6.9	4.4	6.5	8.6	7.4	11.5
20	6.1	5.5	5.9	5.8	5.4	3.5	4.4	5.7	6.3	8.8	9.2	7.4	10.3	16.8	10.7	8.9	9.6	9.1	8.7	5.8	7.5	13.9	14.6	11.2	16.8
21	6.4	6.2	7.5	7.2	5.8	5.6	5.8	5.9	6.6	9.2	11.7	13.3	12.9	11.8	12.5	9.0	10.5	7.3	7.4	15.2	18.6	16.8	14.5	13.9	18.6
22	11.5	9.1	8.5	3.8	4.7	4.4	4.9	5.3	4.1	4.3	10.1	11.9	10.8	10.5	12.9	12.3	10.6	11.2	10.2	9.7	8.4	10.1	16.2	17.3	17.3
23	18.3	12.7	12.9	10.2	15.5	15.0	12.5	10.7	13.0	9.8	11.1	12.3	9.0	9.7	11.7	17.8	17.0	21.2	20.8	22.8	20.1	22.2	15.6	11.4	22.8
24	11.2	9.5	6.4	4.2	4.4	4.9	4.8	5.5	5.3	7.0	13.1	13.5	18.6	13.6	14.5	15.6	14.9	15.9	13.9	8.9	12.8	12.7	12.6	14.1	18.6
25	12.0	12.0	7.6	7.3	9.6	9.2	10.2	7.2	5.2	9.8	9.1	8.6	11.2	11.4	14.9	12.1	11.4	11.5	7.8	7.3	6.4	5.8	2.8	5.4	14.9
26	9.3	11.7	7.7	4.3	6.0	6.5	7.3	8.0	10.5	9.3	7.4	10.1	14.6	15.0	17.1	12.8	10.6	3.9	5.8	11.6	12.1	6.4	8.6	7.3	17.1
27	3.7	5.5	4.7	5.7	4.9	4.1	3.3	3.8	7.9	11.6	11.2	13.7	15.2	14.0	14.2	14.7	14.7	13.1	12.0	6.1	3.7	6.6	3.4	5.0	15.2
28	6.0	5.3	4.9	5.2	6.5	4.8	6.7	6.1	7.6	11.2	11.1	14.6	11.5	14.6	16.8	16.5	13.7	13.6	12.3	10.6	15.8	10.8	6.9	7.3	16.8
29	8.2	7.6	7.5	9.5	4.7	6.4	6.8	7.2	5.8	9.2	9.2	7.8	6.3	8.0	5.4	6.1	6.3	3.7	3.6	2.8	5.2	5.0	6.6	5.7	9.5
30	2.8	4.2	5.3	4.1	3.6	3.7	3.6	5.5	5.7	8.9	8.2	11.5	12.8	16.2	10.7	10.6	9.8	11.0	10.5	8.2	14.1	20.5	19.6	15.3	20.5
31	10.3	12.0	17.5	11.6	9.5	8.6	4.8	10.2	13.2	10.4	9.6	10.4	14.2	10.5	11.9	14.6	14.2	9.9	8.5	6.0	10.2	10.0	11.6	5.5	17.5

MONTHLY MAXIMUM = 26.39

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN DEGREES C

	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	13.0	12.3	11.7	11.4	11.2	11.8	12.4	13.3	14.2	14.9	16.4	18.3	20.0	21.0	21.9	22.2	22.5	22.1	21.0	19.7	18.3	17.3	15.9	14.7	16.6
2	13.6	13.4	13.0	12.8	12.5	12.3	12.4	12.8	13.7	14.9	16.7	18.3	19.1	20.1	20.1	20.5	20.8	20.5	20.1	18.3	17.3	16.7	16.1	14.9	16.3
3	14.2	14.0	13.8	12.8	12.2	12.0	12.3	14.0	16.7	18.3	20.0	21.6	23.2	24.6	25.3	25.9	25.8	25.5	24.4	22.7	21.4	20.4	19.4	18.2	19.1
4	17.5	17.0	16.3	15.7	15.5	15.4	16.6	19.8	22.6	25.3	27.0	29.1	30.4	31.2	32.1	32.2	32.2	31.9	30.7	27.4	25.5	23.8	23.4	23.2	24.2
5	22.6	21.2	21.2	20.7	20.9	20.7	21.7	23.5	24.4	26.4	28.1	29.2	30.2	31.2	31.5	32.0	32.1	31.6	30.5	28.7	26.1	23.6	21.9	20.9	25.9
6	20.8	19.9	19.0	18.9	17.1	16.4	17.2	18.1	18.8	18.6	19.2	20.1	22.7	24.7	26.0	26.5	26.9	26.8	25.7	23.2	21.1	19.5	18.3	17.6	21.0
7	16.6	16.1	15.7	15.0	14.7	14.8	15.1	15.3	15.3	15.7	16.2	16.4	17.1	17.6	18.1	18.3	18.4	18.3	18.2	18.4	18.0	16.8	16.3	15.3	16.6
8	15.0	14.7	13.8	13.3	13.5	13.7	14.2	15.0	16.0	16.6	17.0	17.7	17.8	18.6	18.9	19.3	19.4	19.1	18.5	17.6	17.4	17.1	16.4	15.4	16.5
9	14.9	13.9	13.7	13.1	13.0	12.9	14.3	15.8	17.0	17.7	19.6	20.7	21.2	21.5	22.2	21.8	21.9	21.1	20.6	18.5	17.7	16.9	15.8	15.8	17.6
10	15.2	14.7	14.7	13.8	13.6	13.3	14.1	16.1	18.0	19.4	20.9	22.0	23.0	23.6	23.9	23.8	23.4	22.6	21.4	19.8	18.8	17.8	17.5	16.2	18.6
11	15.9	15.1	14.7	14.0	14.1	13.7	14.4	16.1	18.5	20.0	22.1	23.6	24.7	25.9	26.4	26.6	26.6	25.9	24.5	22.8	21.4	20.5	18.8	18.2	20.2
12	17.6	17.2	16.3	16.0	14.8	14.9	16.1	18.7	21.1	22.5	23.9	25.6	27.4	28.3	28.8	29.0	28.8	28.1	26.0	24.2	23.4	22.2	20.2	20.3	22.1
13	18.0	17.6	18.0	17.9	17.7	16.5	17.8	19.1	21.9	23.0	24.5	25.6	26.8	27.6	28.5	28.2	28.0	26.4	24.5	22.7	21.7	20.5	19.8	19.3	22.1
14	19.5	17.6	16.5	16.5	15.9	15.5	17.1	17.9	19.8	21.6	24.1	25.7	26.5	27.0	27.1	26.7	25.0	25.0	23.9	21.8	20.6	19.7	18.5	17.3	21.1
15	16.6	16.2	15.8	15.5	14.8	14.2	15.2	17.0	18.9	20.6	22.9	25.0	26.3	27.6	28.5	29.1	29.4	28.8	27.1	25.5	24.4	23.3	21.4	20.4	21.9
16	19.7	18.9	19.0	18.5	19.5	17.8	17.7	21.3	24.5	26.7	28.5	30.3	31.6	32.4	33.0	33.3	33.4	32.4	30.4	27.3	25.3	23.6	23.0	22.7	25.4
17	22.1	21.0	21.4	19.9	19.5	18.7	19.5	20.6	22.5	25.1	26.5	27.8	29.2	30.9	31.7	32.1	32.2	31.7	30.3	28.0	25.1	23.6	22.8	20.6	25.1
18	18.7	17.4	16.9	15.5	14.6	14.3	14.5	14.5	14.8	15.6	17.2	18.3	20.7	21.4	22.1	22.9	22.4	21.5	20.1	19.1	17.8	17.1	16.9	16.6	18.0
19	15.9	15.8	15.8	15.8	14.9	14.4	14.2	14.5	14.9	15.4	16.4	17.8	18.5	19.2	19.6	20.3	20.3	20.0	18.8	17.6	16.9	16.1	15.0	14.9	16.8
20	15.4	15.4	15.0	14.9	15.1	15.4	15.3	15.6	17.1	18.4	19.5	21.4	22.2	23.1	23.4	23.7	24.1	23.4	22.0	20.8	19.0	17.6	16.9	15.5	18.8
21	15.1	15.1	14.6	14.3	14.0	13.8	14.2	14.9	16.2	17.6	18.6	18.8	19.5	19.3	19.1	18.9	19.3	18.5	18.1	17.0	15.6	15.1	15.2	15.1	16.6
22	14.8	14.4	13.6	13.6	13.4	13.2	13.4	13.9	14.3	15.4	16.8	18.0	18.6	19.3	19.6	20.3	20.0	19.9	18.3	16.8	16.2	15.4	15.1	15.0	16.2
23	14.3	13.6	13.5	13.9	13.3	13.1	13.5	14.4	14.8	15.4	15.8	16.9	18.0	18.3	18.4	17.3	16.7	16.2	14.7	13.8	13.5	13.3	13.2	12.9	15.0
24	12.2	11.8	11.5	11.2	9.9	9.6	9.8	10.9	11.9	14.5	16.7	17.9	18.9	19.6	20.2	20.7	20.2	19.2	17.7	16.2	15.5	14.8	14.0	13.1	14.9
25	12.4	11.3	10.8	10.2	9.6	9.4	10.5	12.9	15.3	17.0	19.2	21.4	23.2	24.5	25.6	25.9	25.5	24.6	22.7	20.6	19.9	18.3	17.6	16.7	17.7
26	15.4	14.5	14.5	14.5	14.0	13.0	13.3	13.8	15.4	16.0	18.1	19.9	20.9	20.6	19.9	18.6	17.4	17.0	16.8	16.6	15.8	15.3	15.2	14.7	16.3
27	14.3	14.4	14.3	14.3	14.2	13.5	14.0	15.7	17.4	18.2	19.1	20.4	21.5	22.0	22.2	21.8	21.8	21.6	20.5	19.0	17.8	16.6	15.6	13.8	17.7
28	13.9	13.8	14.1	14.0	13.7	13.9	14.1	14.3	15.1	16.8	18.0	18.7	20.2	20.9	21.2	20.4	19.3	18.7	17.9	17.4	16.6	15.7	15.4	15.3	16.7
29	14.7	14.5	13.9	13.7	13.6	13.7	13.8	14.1	14.7	15.5	17.0	17.9	18.7	18.8	19.0	19.5	19.4	19.0	18.9	17.0	16.1	15.8	15.3	14.7	16.2
30	14.3	13.9	13.9	13.6	12.7	12.1	13.0	13.5	14.6	15.5	17.3	18.1	19.3	20.4	20.6	21.0	21.0	20.4	19.2	17.8	16.5	15.2	13.8	13.3	16.3
31	12.7	12.1	12.1	12.0	11.6	11.2	12.5	13.7	14.4	15.8	16.5	17.7	18.3	18.2	19.0	19.9	19.8	19.2	17.4	16.1	15.7	15.1	14.0	13.2	15.3

MONTHLY AVERAGE = 18.80

PRECIPITATION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN INCHES

	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	TOT
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	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	0.01
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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 = 0.01

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF AUGUST , 2012

IN MPH/DIR

	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
1	8NE	7NE	6NE	5NE	4NE	4SE	5SE	4S	5SW	6S	4SW	5W	7W	6SW	6SW	6W	6NW	6NW	6NW	5W	3N	5W	4SW	5S
2	4W	2W	3NW	3W	3W	4W	3W	3W	3SW	4SW	4SW	7NW	7NW	7NW	7NW	6NW	6NW	6NW	6NW	7NW	5N	9N	9NE	9NE
3	8N	8N	10N	6NE	5NE	4NE	4NE	3NE	4NE	5NE	7NE	8NE	6N	8N	8N	8N	7N	6N	5NW	5N	9N	8N	8NE	6NE
4	7NE	8NE	5NE	6NE	6NE	7NE	5NE	7NE	9NE	7NE	8NE	8NE	9N	10N	9N	10N	9N	6N	4N	7NE	7NE	6NE	4NE	2E
5	3NE	4NE	3N	3N	3SW	1SE	2NE	3S	3S	3SW	4W	5W	6W	6W	8W	8W	7NW	7W	5W	6W	6W	6SW	7S	3S
6	2N	5W	3SE	3SE	7W	3SW	3SE	3SE	4SE	4SE	7W	4SW	4W	5NW	7W	6NW	5NW	5NW	6NW	6NW	3NW	4N	4NE	3S
7	6S	3SE	5SW	5SW	2S	1SW	3W	3NW	5W	3W	3W	4W	4S	6SW	4S	5SE	5SE	6SE	6SE	5SE	6SW	7W	5W	8SW
8	5SW	5S	6SE	6SE	6SE	6SE	6SE	5SE	4SE	5SE	4S	3SE	4N	3W	4W	3W	2W	1NE	2N	2NE	3N	2N	3NE	5NE
9	5NE	7NE	9NE	9NE	8NE	8NE	5NE	6NE	9NE	8NE	11NE	10NE	8N	9NW	8N	10NW	7NW	8NW	7NW	7NW	6N	5NE	8NE	10NE
10	9NE	6NE	4NE	3NE	3SW	2SW	3S	2S	4N	6NW	7NW	9N	9N	10NW	10NW	10NW	9NW	8NW	6NW	6N	5NE	5NE	4NE	3E
11	0NE	1NE	3NE	2NE	1S	2S	1W	2W	3NE	3NE	7NE	8N	9NE	10NW	9NW	7N	7N	6N	8N	5N	7N	10N	7N	8N
12	8NE	8NE	5NE	3NE	4N	3NE	3NE	2NW	2NW	4N	4N	6NW	9N	9NW	9N	10N	9NW	6N	7NW	5N	5NE	8N	6N	7N
13	4NE	5NE	4NE	1SW	2SW	2S	1S	1SW	2E	3E	4NW	6W	6W	8W	9NW	10N	10N	10N	10NE	12NE	12NE	11NE	9NE	3N
14	5NE	10NE	8NE	4E	3SE	0SE	1E	3S	3S	3SW	4NW	8N	8NW	7N	6N	10N	11NE	8N	7NW	9N	13NE	12NE	12NE	9N
15	10NE	9NE	6NE	7NE	8NE	6NE	7NE	7NE	5NE	8NE	11NE	11NE	11N	12N	13N	8N	6NW	5NW	6N	6NE	11NE	10NE	8NE	7NE
16	5NE	6NE	5N	5NE	3N	4N	5NE	2N	4N	4N	4N	6NW	6NW	7NW	6NW	6NW	5NW	5N	5NW	5NE	5NE	7NE	4NE	3S
17	2S	4S	4SE	5S	4S	4S	3S	2SW	3SW	2NW	5NW	5W	5W	5W	6W	7W	5W	4W	3NW	3N	6NE	4NE	2NW	4S
18	3S	3SW	4S	6SW	3S	2S	3SW	3SW	4S	3S	4SW	5S	6S	4S	4SW	3W	7N	4NW	6NW	6SW	8S	6S	4S	8SW
19	5S	7S	7S	6S	6W	6W	4W	4SW	3SW	4SW	3SW	3S	4SE	4SW	4SW	4SW	5SE	5SE	4SE	5SE	2E	3NE	5NE	5NE
20	3NE	3SE	4SE	4SE	3SE	1S	2SW	2SE	3S	3SW	4W	3N	5N	6W	5W	5W	5W	6W	6W	3NW	4NE	7NE	9NE	6NE
21	4NE	3NE	3NE	3SE	4SE	3SE	3S	4S	3S	4S	6SW	7W	8W	7SW	8SW	6SW	5S	4S	3W	6N	11NE	9NE	8NE	7NE
22	5NE	5NE	4NE	2SE	3S	2S	3S	2SE	2NE	2NE	4NE	6N	6NW	6NW	7NW	7NW	6NW	8NW	8NW	6N	5N	6NE	8NE	8N
23	12N	5NE	4E	4NE	10N	10N	8N	5N	8N	6N	7NE	6NE	5NW	5W	6N	11N	10NE	13NE	14NE	15NE	14NE	12NE	8NE	6NE
24	6NE	5E	3SE	2S	2S	3SE	3SE	4S	3SW	3W	7N	8N	9N	8N	8N	10NW	9N	11N	7NW	5NW	4N	5NE	9NE	9NE
25	7N	7NE	4NE	4NE	5NE	6NE	5NE	2NE	3E	5NE	6NE	4NE	6NW	5NW	6NW	7NW	8NW	6NW	5NW	4NE	4E	3NE	1S	3S
26	5SE	7SE	5SE	2SE	4S	5S	5SW	5S	6SE	6S	4SW	5SW	7W	10W	12W	8SW	6SW	1E	1SE	7W	8W	2W	4W	4W
27	2N	4NW	3N	4NW	3NW	2N	2N	2NE	2SW	6SW	5SW	6W	8W	8SW	8W	10W	10W	9W	8W	3NW	2NE	3S	2SE	2SW
28	3SE	3SE	3SE	2SE	5S	3S	4S	4S	4S	6SE	5S	6W	6SW	6NW	9W	9W	9W	8SW	9SW	7SW	10SW	6SW	3S	5SW
29	5S	5S	4S	4S	2S	4S	5S	4S	3S	6SE	5SE	3S	3SE	4E	3E	3SE	3S	2E	1SW	1E	2S	3S	4S	3S
30	1E	1E	2E	3SE	2S	2SE	1S	4S	3SW	5W	4SW	6W	6W	6W	6W	5SW	6NW	5N	6N	4N	9N	12N	13NE	9NE
31	6NE	7NE	9NE	7NE	6NE	5NE	3E	4NE	8NE	6NE	5NW	5NW	7NW	6NW	8NW	9NW	9NW	6NW	6NW	4N	6N	6N	5NE	2E

WIND SPEED FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN MILES PER HOUR

	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	3.1	3.8	5.9	4.6	4.1	3.8	3.3	4.3	4.3	3.4	4.5	6.0	7.1	6.7	8.1	7.5	7.2	4.7	3.6	5.0	5.5	9.7	5.2	4.3	5.2
2	3.4	3.1	3.7	1.4	2.2	1.5	2.6	2.8	2.6	4.4	3.8	4.5	5.6	6.1	6.5	6.0	6.9	5.4	6.2	6.2	5.9	5.0	2.7	2.9	4.2
3	5.4	6.9	6.8	3.4	2.7	5.3	6.4	6.2	4.6	5.4	4.3	7.5	9.4	8.8	10.0	10.1	10.4	8.4	5.0	2.5	2.3	3.6	3.7	1.8	5.9
4	2.2	1.3	1.0	0.5	1.7	1.4	1.9	2.4	3.2	3.3	4.5	5.7	9.6	7.6	8.6	7.0	7.1	8.4	6.6	2.7	7.0	10.1	8.4	5.2	4.9
5	3.6	4.1	2.2	0.6	2.3	0.9	1.6	1.8	2.8	2.5	4.1	6.6	8.7	9.6	8.4	9.4	7.7	7.6	6.9	5.0	4.7	8.0	9.4	4.9	5.1
6	5.9	6.2	5.6	4.5	6.9	7.7	9.0	7.2	4.3	5.8	7.0	7.2	7.2	10.8	11.8	11.2	9.5	6.7	3.2	5.8	8.8	7.5	7.2	5.2	7.2
7	3.8	3.2	4.3	4.4	6.1	6.0	2.1	1.5	2.8	3.1	3.8	3.8	7.7	6.3	7.7	8.0	11.6	10.5	8.3	7.1	6.1	3.4	0.9	0.9	5.1
8	4.2	5.1	5.1	4.6	2.0	3.5	3.3	2.5	2.9	5.8	3.9	6.5	5.2	6.3	7.0	10.4	7.5	8.2	9.3	7.7	7.4	8.7	7.7	8.1	6.0
9	7.5	7.4	7.6	5.8	5.4	6.6	6.6	7.6	7.6	9.2	9.5	11.4	9.8	9.7	11.0	10.0	10.5	11.7	14.6	11.4	12.5	11.0	12.2	9.8	9.4
10	10.3	11.2	8.2	14.1	8.5	7.4	6.3	5.2	4.6	4.7	6.2	5.1	5.9	5.2	8.1	9.5	7.1	7.9	10.0	14.5	16.1	15.7	6.5	1.1	8.3
11	2.3	1.8	1.1	1.5	3.5	3.2	2.1	4.7	9.5	8.5	7.2	10.4	8.7	7.4	8.7	8.8	10.1	10.7	7.1	11.5	12.2	6.8	6.0	7.9	6.7
12	8.1	9.0	3.9	5.6	5.5	8.8	9.8	7.6	3.6	8.7	12.8	12.2	11.2	11.7	12.4	13.8	14.1	11.6	10.6	13.0	13.1	12.8	13.0	12.6	10.2
13	9.2	7.0	7.8	7.5	7.2	7.2	7.4	6.2	3.7	2.8	4.5	5.5	5.8	6.1	5.9	5.3	3.0	2.1	5.0	5.1	5.2	6.5	4.5	2.3	5.5
14	0.7	1.2	0.1	0.1	1.0	1.1	0.9	1.6	0.9	1.8	2.3	5.5	7.0	7.3	8.1	8.0	5.7	4.2	3.7	5.6	4.0	3.7	3.4	0.6	3.3
15	1.4	1.3	2.1	3.1	4.7	4.7	5.6	5.2	3.6	3.0	2.7	2.8	3.6	3.1	4.8	5.4	4.6	2.1	1.6	3.7	3.5	1.9	1.7	3.9	3.3
16	4.0	2.7	1.6	0.3	0.7	2.2	2.6	2.8	1.5	2.5	3.3	3.1	5.2	5.5	7.9	5.7	4.7	4.4	4.5	4.6	5.3	5.7	4.7	2.7	3.7
17	0.8	0.1	1.1	1.6	2.9	2.1	3.2	4.0	1.4	2.5	5.1	5.1	5.5	6.6	8.6	5.7	3.5	3.2	2.1	1.9	2.3	2.2	2.5	3.1	3.2
18	1.1	1.4	1.5	0.2	1.3	3.5	0.9	1.7	2.3	2.2	3.0	4.1	4.6	4.6	5.7	6.7	5.3	2.9	2.4	4.1	2.5	5.8	4.7	3.0	3.1
19	3.5	2.9	1.7	4.1	4.6	2.6	1.2	1.5	1.0	1.8	2.4	2.5	3.2	4.4	6.6	12.8	5.3	5.3	2.5	3.0	3.6	3.6	1.4	0.9	3.4
20	1.3	1.8	4.2	4.7	2.4	2.6	2.5	0.7	1.5	4.4	4.3	3.6	6.7	5.6	5.8	7.3	7.6	4.9	4.9	2.5	4.2	4.8	7.0	4.5	4.2
21	3.2	3.9	4.7	4.8	4.7	4.4	4.7	4.1	5.6	6.9	5.2	3.9	3.5	5.2	2.5	2.4	2.5	2.8	2.2	4.0	1.3	1.5	2.0	2.0	3.7
22	2.1	2.4	1.3	2.0	2.7	2.9	3.1	4.0	7.0	6.7	3.2	3.8	3.9	4.1	4.6	4.1	4.3	3.5	3.5	2.8	3.2	1.6	0.2	0.0	3.2
23	0.2	0.4	1.5	0.6	0.8	2.2	4.3	2.3	1.9	2.0	2.6	4.4	4.7	4.6	4.4	4.2	6.7	6.8	4.5	4.4	2.2	0.3	2.7	2.5	3.0
24	2.2	2.2	2.4	2.0	2.9	3.7	2.4	1.2	2.5	1.8	2.6	6.5	7.2	6.6	5.3	5.6	6.5	6.8	5.8	4.4	3.5	5.5	6.8	6.0	4.3
25	4.9	8.0	5.2	4.1	6.9	6.9	8.3	3.3	4.0	5.5	4.8	4.3	3.1	3.9	3.7	5.3	2.9	2.3	1.8	2.6	1.6	0.9	0.4	0.0	3.9
26	0.8	0.5	0.5	2.8	3.4	2.0	2.0	1.0	2.6	2.2	2.5	4.4	4.5	5.8	5.1	5.5	5.9	5.1	5.2	3.5	3.3	4.3	4.0	3.0	3.3
27	4.5	4.7	3.4	5.1	3.3	2.7	2.0	1.9	1.1	2.0	2.6	3.8	4.0	4.8	5.4	4.2	3.2	2.9	3.3	3.0	2.9	2.6	1.2	1.8	3.2
28	1.1	1.8	1.2	1.1	0.9	1.8	3.4	5.4	3.7	2.7	2.9	3.5	4.5	4.2	4.4	5.1	3.3	4.7	4.5	4.2	3.3	5.5	4.3	5.1	3.4
29	2.0	4.1	6.9	9.0	9.9	11.9	12.9	13.3	11.9	7.8	6.7	4.6	4.6	6.5	8.6	7.4	9.8	7.2	6.2	8.2	8.2	7.2	8.9	8.6	8.0
30	11.6	3.4	2.2	3.4	3.0	4.2	3.1	1.1	2.3	2.7	3.4	6.2	10.6	9.8	9.1	7.8	6.5	5.7	7.5	8.4	10.4	6.1	4.4	1.6	5.6

MONTHLY AVERAGE = 4.99

WIND DIRECTION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN DEGREES

(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	83.	115.	151.	159.	165.	172.	162.	189.	198.	240.	238.	249.	261.	253.	249.	259.	273.	263.	268.	31.	22.	36.	83.	156.	178.
2	222.	48.	123.	154.	136.	139.	210.	196.	194.	190.	254.	284.	288.	252.	262.	295.	293.	313.	322.	6.	34.	46.	50.	30.	181.
3	25.	38.	39.	65.	46.	30.	36.	31.	38.	42.	23.	23.	348.	359.	356.	354.	329.	326.	335.	340.	358.	35.	47.	72.	154.
4	84.	149.	175.	332.	262.	1.	346.	322.	46.	29.	353.	336.	319.	315.	320.	356.	359.	324.	340.	9.	25.	25.	32.	47.	204.
5	358.	49.	195.	302.	246.	129.	152.	110.	192.	17.	331.	314.	26.	11.	352.	348.	328.	355.	354.	18.	22.	27.	26.	26.	179.
6	17.	37.	28.	26.	35.	34.	29.	30.	42.	39.	39.	35.	35.	25.	16.	358.	359.	356.	42.	46.	37.	33.	29.	35.	73.
7	32.	13.	23.	46.	29.	50.	92.	33.	338.	37.	40.	31.	34.	27.	19.	7.	9.	8.	17.	43.	35.	54.	31.	71.	47.
8	306.	340.	156.	182.	358.	30.	20.	304.	286.	240.	220.	221.	241.	226.	215.	252.	237.	266.	266.	234.	211.	204.	238.	230.	228.
9	226.	212.	193.	195.	142.	152.	141.	133.	145.	184.	203.	218.	214.	200.	203.	193.	229.	207.	203.	202.	205.	195.	195.	187.	191.
10	186.	183.	212.	19.	64.	61.	135.	120.	121.	127.	162.	154.	205.	236.	259.	297.	2.	32.	19.	33.	33.	30.	28.	67.	116.
11	356.	25.	17.	10.	29.	36.	40.	44.	25.	22.	39.	37.	23.	1.	331.	346.	346.	343.	334.	1.	18.	24.	34.	29.	104.
12	29.	23.	12.	32.	23.	35.	42.	39.	35.	29.	30.	31.	27.	19.	6.	9.	16.	28.	28.	21.	20.	29.	35.	37.	27.
13	35.	34.	35.	36.	36.	31.	22.	29.	20.	8.	41.	37.	36.	34.	31.	344.	14.	238.	31.	46.	44.	51.	33.	332.	67.
14	4.	6.	110.	228.	312.	324.	116.	351.	332.	49.	41.	292.	276.	274.	255.	256.	267.	274.	331.	31.	42.	39.	39.	129.	182.
15	194.	84.	135.	165.	172.	192.	156.	204.	180.	206.	224.	236.	279.	285.	300.	277.	290.	310.	323.	27.	31.	49.	9.	25.	181.
16	27.	26.	58.	146.	0.	282.	194.	212.	203.	50.	38.	348.	40.	24.	37.	19.	9.	348.	348.	27.	35.	42.	58.	29.	108.
17	37.	133.	86.	18.	23.	4.	35.	37.	63.	93.	36.	35.	44.	38.	31.	29.	288.	248.	55.	64.	35.	49.	54.	49.	66.
18	72.	150.	158.	90.	36.	6.	138.	177.	245.	343.	179.	258.	276.	278.	281.	275.	287.	280.	345.	66.	108.	202.	176.	210.	193.
19	175.	204.	192.	211.	218.	166.	166.	191.	226.	53.	165.	352.	12.	291.	5.	356.	290.	269.	349.	61.	79.	48.	141.	199.	184.
20	59.	331.	178.	165.	120.	30.	322.	154.	87.	238.	248.	249.	231.	232.	249.	231.	237.	248.	260.	222.	242.	240.	208.	176.	207.
21	142.	175.	200.	215.	216.	204.	186.	160.	150.	170.	163.	168.	144.	212.	275.	55.	62.	96.	133.	250.	343.	81.	103.	128.	168.
22	161.	168.	110.	171.	171.	164.	188.	139.	32.	21.	22.	39.	39.	46.	44.	52.	40.	40.	52.	67.	59.	66.	13.	16.	80.
23	51.	17.	63.	1.	262.	48.	33.	38.	29.	152.	11.	31.	27.	297.	278.	280.	282.	303.	14.	47.	62.	65.	54.	57.	104.
24	49.	53.	31.	38.	31.	40.	34.	93.	194.	261.	329.	37.	32.	23.	26.	296.	306.	324.	20.	331.	30.	16.	30.	32.	111.
25	34.	25.	43.	22.	35.	28.	27.	6.	294.	269.	271.	263.	351.	19.	7.	43.	58.	37.	76.	111.	81.	15.	175.	209.	104.
26	186.	276.	355.	25.	38.	1.	333.	263.	285.	50.	31.	316.	294.	267.	280.	310.	308.	347.	28.	38.	40.	35.	30.	42.	174.
27	54.	21.	8.	37.	23.	49.	67.	284.	75.	7.	34.	23.	299.	312.	280.	281.	350.	297.	57.	70.	30.	37.	43.	158.	121.
28	90.	144.	81.	98.	221.	155.	179.	142.	305.	218.	199.	123.	209.	254.	263.	279.	341.	28.	32.	60.	70.	141.	144.	192.	165.
29	167.	59.	40.	30.	24.	32.	33.	28.	19.	29.	42.	307.	295.	304.	357.	0.	328.	327.	10.	41.	35.	48.	32.	26.	109.
30	29.	42.	46.	40.	21.	35.	46.	75.	3.	60.	358.	358.	30.	30.	4.	356.	335.	342.	11.	15.	24.	29.	41.	14.	98.

MONTHLY AVERAGE = 136.82

SIGMA THETA FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN DEGREES

	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	19.0	14.1	5.0	5.3	8.2	11.4	8.7	11.4	19.1	35.3	31.7	32.4	22.2	22.8	21.9	17.4	16.2	16.9	17.9	11.4	19.2	9.0	12.9	14.9	16.8
2	9.4	36.0	15.4	35.9	15.8	9.8	12.2	34.1	41.9	30.9	39.6	51.5	38.1	32.4	30.7	25.1	14.2	12.1	7.5	13.8	12.0	9.5	12.3	13.7	23.1
3	8.6	6.1	8.4	16.7	20.9	11.7	9.3	13.7	23.9	16.9	33.9	18.7	18.2	19.2	23.4	17.9	12.4	10.6	9.4	24.1	18.4	7.6	9.0	18.5	15.7
4	15.3	54.6	17.6	13.4	33.8	33.7	12.0	31.4	18.6	29.2	27.6	34.2	13.5	19.9	18.5	23.7	18.6	11.1	15.8	28.6	6.9	6.6	11.9	18.4	21.5
5	17.3	17.8	41.0	16.5	14.7	9.4	13.9	35.2	27.3	46.1	32.3	32.0	17.4	13.3	22.4	17.1	12.9	9.8	8.4	37.2	25.0	9.6	13.5	18.1	21.2
6	7.9	6.9	7.8	9.5	10.4	8.9	7.9	9.3	15.6	15.4	12.9	13.7	19.5	12.4	13.4	15.4	17.4	19.6	39.6	18.4	7.2	7.4	8.0	10.1	13.1
7	12.9	7.9	12.6	14.4	7.5	16.8	35.8	26.1	26.1	28.3	20.6	34.7	15.2	24.0	20.8	14.8	10.7	9.6	10.4	7.6	10.5	16.9	26.0	27.5	18.2
8	36.2	23.4	20.1	32.3	38.9	12.3	9.2	36.9	35.1	13.6	27.8	22.3	27.2	20.4	17.7	11.0	12.8	11.9	9.5	7.5	6.8	7.3	10.0	19.4	19.6
9	20.5	11.7	9.4	10.8	7.8	8.2	9.3	11.6	15.2	21.0	18.8	12.8	14.9	13.5	13.7	10.3	9.7	9.8	8.7	9.4	9.2	10.0	10.5	9.5	11.9
10	7.8	9.6	40.1	16.2	18.3	14.0	11.9	16.4	23.1	17.3	24.2	43.7	35.7	45.9	20.7	11.6	11.7	12.8	20.8	10.6	11.1	11.3	21.8	47.9	21.0
11	42.7	34.8	12.8	14.6	16.9	12.4	43.8	15.1	12.0	14.2	59.6	13.4	21.3	30.8	22.5	21.3	16.4	12.2	16.4	18.7	9.5	12.1	15.5	12.7	20.9
12	9.0	6.8	10.6	15.1	11.2	11.2	11.4	10.7	32.5	14.7	9.6	9.7	11.1	12.2	12.4	11.4	10.3	13.3	12.1	9.4	8.7	8.4	9.8	8.9	11.7
13	8.5	7.6	7.1	7.6	8.1	7.0	8.4	8.4	26.8	28.2	13.8	11.9	13.9	11.2	10.8	28.5	51.1	41.1	36.0	8.4	9.6	10.1	11.6	22.4	16.6
14	25.9	22.7	3.6	19.0	16.6	22.5	10.9	18.1	44.6	31.5	44.1	19.9	14.5	15.9	12.6	12.8	13.9	8.2	14.3	7.0	8.4	10.3	12.2	40.3	18.7
15	35.7	31.2	32.2	18.3	11.2	10.8	6.0	9.5	15.7	15.9	28.2	36.1	31.7	43.3	31.0	13.6	9.5	8.8	13.4	12.7	14.8	16.5	24.0	18.9	20.4
16	11.9	23.5	32.2	17.8	7.7	26.5	10.9	10.9	33.9	25.6	29.9	29.9	21.6	30.2	11.6	24.6	23.1	13.8	10.4	7.7	7.7	6.3	19.7	19.0	19.0
17	16.2	15.7	31.6	10.8	17.1	18.3	7.1	10.6	26.1	24.9	12.5	15.2	18.4	14.5	10.6	12.1	24.3	12.2	30.8	18.3	16.5	19.8	17.2	15.2	17.3
18	15.2	34.1	12.6	15.0	3.9	17.9	18.7	17.3	23.2	41.6	35.2	21.3	22.9	24.0	16.7	9.2	9.4	15.0	13.1	8.3	13.3	10.9	12.3	26.7	18.2
19	32.1	10.9	5.1	4.1	6.7	9.4	13.4	27.0	43.7	47.1	53.0	54.4	38.7	32.4	26.1	11.2	28.4	6.2	29.8	13.7	9.6	6.4	17.0	11.1	22.4
20	11.9	36.3	39.4	9.7	23.4	16.9	11.0	25.2	41.3	13.9	23.8	39.1	21.4	24.5	21.3	12.0	10.8	9.6	3.9	11.2	6.3	11.4	8.1	13.5	18.6
21	9.7	7.8	8.8	10.6	9.1	9.7	6.9	13.0	10.6	11.8	17.2	21.9	24.6	12.4	23.2	9.3	7.8	7.5	21.2	7.6	12.3	9.0	6.5	7.0	11.9
22	15.5	26.9	16.8	8.9	29.2	39.4	16.9	24.7	10.6	10.2	17.6	13.1	17.7	15.3	13.5	15.3	9.8	6.5	6.4	6.8	5.2	28.1	19.0	1.4	15.6
23	9.2	10.5	22.4	31.0	35.5	16.7	15.1	22.3	49.2	41.2	37.5	27.2	27.8	36.3	31.2	29.7	11.1	5.6	11.6	5.5	8.5	14.8	8.9	4.5	21.4
24	6.2	9.7	9.2	17.1	11.7	6.1	9.6	18.5	20.5	41.4	56.2	18.4	15.7	17.2	27.8	24.3	11.2	10.9	15.8	26.1	20.3	17.3	7.8	9.5	17.9
25	9.9	10.0	27.1	13.6	8.4	9.6	9.3	16.4	13.2	12.4	21.0	29.9	47.3	42.5	30.5	14.0	21.3	12.0	23.3	11.3	20.1	7.3	21.9	1.5	18.1
26	14.6	36.4	2.5	15.6	6.6	12.8	16.0	36.8	18.7	32.2	40.8	26.4	29.2	22.6	25.5	30.1	11.8	25.4	13.3	11.9	5.8	6.9	5.3	5.1	18.8
27	7.5	7.4	14.0	7.2	6.6	7.5	23.5	18.2	41.8	34.8	44.8	39.4	43.7	28.0	16.8	27.3	23.9	17.7	13.7	10.7	9.8	13.0	11.6	22.6	20.5
28	4.8	12.6	14.9	47.1	20.9	12.1	25.0	26.4	46.0	19.6	21.7	25.6	30.0	40.2	22.6	17.2	21.0	7.9	7.7	14.8	16.0	9.0	8.6	10.9	20.1
29	17.6	21.7	17.3	9.4	10.7	15.0	12.2	12.4	16.9	15.2	15.1	22.4	39.1	40.7	31.2	21.3	11.1	10.6	16.4	13.9	14.1	17.4	16.1	23.1	18.4
30	12.3	20.8	15.1	9.3	23.9	9.0	7.7	31.4	44.6	39.2	40.0	27.7	11.7	16.6	15.8	18.1	15.9	13.6	11.4	8.4	6.8	11.6	9.7	8.7	17.9

MONTHLY AVERAGE = 18.22

WIND GUST FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN MILES PER HOUR

	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	MAX
1	5.1	7.8	7.4	7.5	5.9	5.3	4.8	7.4	7.3	7.5	9.5	10.7	11.7	14.3	13.4	11.8	11.9	7.8	5.2	13.7	11.9	15.2	9.4	6.9	15.2
2	6.7	6.1	5.7	4.9	4.0	3.9	4.4	5.7	9.1	8.4	8.8	10.5	11.9	11.8	12.4	12.6	11.5	8.5	7.9	11.0	9.5	7.9	6.3	8.4	12.6
3	8.1	9.4	10.4	9.2	7.0	9.9	11.9	9.8	9.2	9.8	8.7	14.2	13.4	15.3	17.4	16.8	15.6	13.4	8.3	5.5	4.7	6.5	6.8	4.1	17.4
4	4.2	5.3	4.5	2.5	5.2	3.3	4.2	5.0	6.2	6.5	9.3	12.6	14.4	13.2	15.2	13.6	12.7	12.0	12.5	6.7	9.8	16.0	14.9	9.5	16.0
5	6.4	7.1	5.7	3.1	3.6	3.6	3.7	5.8	5.6	8.3	8.4	12.8	13.4	14.3	12.9	13.9	12.4	11.8	9.9	11.5	15.6	14.9	16.0	10.9	16.0
6	10.8	9.2	8.6	7.9	11.2	11.8	14.6	12.2	7.4	9.7	11.0	11.2	13.4	17.9	17.8	16.5	17.6	14.0	9.6	12.2	14.1	11.5	10.8	9.9	17.9
7	8.0	5.4	8.2	8.9	9.3	10.4	5.4	3.5	6.1	6.7	7.1	8.5	14.0	13.2	13.2	12.1	16.4	15.4	14.5	10.8	11.5	6.3	3.0	6.7	16.4
8	7.5	9.5	10.9	10.7	4.0	5.7	5.1	4.8	8.0	8.7	8.7	10.9	9.8	12.6	11.1	14.8	12.2	13.5	14.8	12.7	10.3	11.4	12.9	13.7	14.8
9	11.0	12.0	12.6	8.0	7.8	10.1	9.5	11.7	11.8	16.0	16.2	16.8	18.4	14.8	16.8	16.1	17.3	17.4	20.2	18.0	18.1	17.2	18.7	15.8	20.2
10	15.0	16.0	20.8	24.3	14.9	13.7	9.9	10.5	8.4	8.3	11.2	11.3	12.9	11.2	14.5	17.2	14.4	13.9	21.3	23.5	25.2	25.5	17.7	5.5	25.5
11	6.1	5.0	5.1	5.8	6.8	5.4	6.5	9.9	15.4	13.6	14.8	16.6	14.2	15.1	15.9	15.3	17.1	16.3	12.5	23.0	19.8	12.9	11.3	13.5	23.0
12	13.0	14.2	8.3	10.0	9.7	15.3	17.0	12.4	9.5	19.2	19.9	18.4	16.8	18.3	18.4	20.6	20.7	21.0	20.6	20.2	18.8	18.5	19.5	17.2	21.0
13	15.7	10.6	12.0	11.7	9.6	10.1	10.1	9.7	6.2	5.1	7.3	8.2	9.1	9.1	9.0	9.2	7.3	4.9	9.8	7.9	8.3	10.3	7.6	4.6	15.7
14	2.3	2.7	1.9	1.5	4.1	3.9	2.3	3.2	3.4	3.8	6.7	9.5	9.8	11.2	11.8	11.6	9.0	6.0	6.4	7.8	7.3	5.5	5.0	2.4	11.8
15	3.6	3.5	3.7	6.1	7.5	7.0	8.0	7.0	6.0	5.2	5.4	6.8	6.8	7.0	10.1	8.8	7.5	6.5	3.2	9.1	8.3	4.2	4.7	7.9	10.1
16	9.2	6.7	4.2	2.6	4.1	3.7	3.8	4.2	3.3	6.4	6.1	7.9	10.1	10.4	12.1	11.1	9.0	7.5	6.5	7.4	8.8	7.6	7.6	5.5	12.1
17	3.2	2.4	3.6	3.5	4.7	3.6	5.6	7.0	4.1	5.3	8.5	9.5	9.5	10.8	13.0	10.9	5.2	6.8	3.5	3.8	4.0	5.9	6.9	7.4	13.0
18	5.3	4.8	3.8	2.3	6.6	7.9	2.1	3.7	5.5	5.1	6.4	8.1	8.9	8.4	8.6	9.5	8.4	5.2	4.3	6.6	5.4	8.4	6.8	6.0	9.5
19	5.9	6.0	2.9	5.5	6.1	6.9	3.2	3.3	3.4	4.5	6.0	5.8	7.6	9.0	18.4	18.4	15.3	7.3	4.9	5.5	5.5	6.3	2.6	2.7	18.4
20	3.7	5.3	8.7	7.1	4.6	4.6	4.7	3.0	4.3	7.6	8.4	9.8	11.7	10.9	9.8	10.0	11.1	7.3	7.2	5.7	6.2	9.5	9.8	8.1	11.7
21	6.1	5.6	7.9	7.3	7.3	6.6	6.4	6.4	8.5	10.7	9.8	6.6	6.8	8.8	6.1	3.8	3.7	3.8	3.7	6.5	2.7	2.4	3.8	2.8	10.7
22	4.3	5.0	3.6	5.0	7.6	5.4	5.7	8.8	11.7	11.5	5.6	6.2	6.3	7.1	7.6	6.8	7.0	5.4	5.2	4.6	4.4	3.6	1.8	0.6	11.7
23	1.7	3.9	3.6	3.1	2.5	6.8	8.5	4.4	4.7	4.3	6.0	10.0	8.6	8.9	9.4	8.7	9.9	9.6	7.0	6.2	5.3	3.5	3.6	3.3	10.0
24	2.9	3.4	3.6	3.3	4.1	5.4	3.6	3.1	4.7	4.8	7.2	11.4	12.6	12.3	8.6	11.2	9.2	10.3	9.3	8.7	8.7	9.6	11.6	11.9	12.6
25	9.0	13.5	12.4	8.0	10.6	11.1	13.0	7.8	7.5	8.4	7.5	8.8	7.4	7.7	9.7	9.0	6.2	4.0	2.9	4.3	3.6	2.0	1.4	1.3	13.5
26	2.4	2.0	1.8	5.2	5.6	3.0	3.4	3.3	5.1	5.1	6.1	8.7	9.6	11.0	9.7	8.4	9.8	11.8	9.0	5.6	4.8	6.7	7.2	4.2	11.8
27	6.9	8.2	5.3	8.0	6.6	3.7	3.9	3.5	2.9	4.8	6.2	9.4	8.3	10.0	8.9	8.2	7.3	4.8	5.6	4.8	5.2	3.7	2.9	3.2	10.0
28	2.5	3.5	2.3	3.1	2.7	4.9	8.1	10.6	8.9	5.6	5.9	8.6	8.9	8.3	9.3	8.7	6.4	6.9	7.0	6.8	6.7	8.4	6.7	6.5	10.6
29	5.2	9.0	12.5	13.1	18.4	20.6	22.4	23.1	24.6	13.9	11.1	9.5	10.3	11.5	13.8	14.6	14.7	10.6	9.8	15.3	13.5	17.5	17.3	14.6	24.6
30	17.2	6.8	3.5	5.2	5.6	6.9	7.0	3.8	4.9	6.9	9.1	13.5	16.1	15.1	15.5	14.0	11.3	10.3	11.8	14.0	15.4	11.4	7.5	3.6	17.2

MONTHLY MAXIMUM = 25.49

2 M TEMPERATURE FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN DEGREES C

	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	11.9	12.2	11.7	11.0	10.6	10.2	10.1	11.2	12.9	14.8	16.5	18.1	19.1	19.8	20.6	20.6	20.5	19.9	18.8	16.7	14.7	13.7	12.9	13.0	15.1
2	12.5	10.8	10.3	10.6	10.9	10.9	11.4	11.6	12.6	14.4	16.1	17.6	18.5	19.2	19.8	20.3	19.9	19.6	17.6	16.5	15.4	14.2	13.6	13.0	14.9
3	11.6	11.1	11.2	12.3	10.5	9.3	9.2	10.9	13.4	14.6	16.7	18.5	19.7	20.7	21.5	21.5	21.1	20.2	18.6	17.6	16.7	15.2	14.3	13.6	15.4
4	13.2	13.6	12.9	12.2	11.8	11.5	12.6	13.7	15.5	17.7	19.4	21.1	22.2	22.8	23.0	23.2	22.9	22.0	20.4	18.7	17.1	16.4	16.4	15.4	17.3
5	14.9	14.8	13.5	13.9	13.1	12.2	13.6	15.9	17.2	19.7	21.2	23.0	23.9	24.6	25.4	24.4	23.1	22.5	20.6	19.4	18.1	16.9	17.0	15.6	18.5
6	14.4	13.6	13.1	12.8	12.1	11.9	12.3	13.7	15.7	17.8	20.1	22.3	24.3	25.8	26.4	26.6	26.0	24.8	23.4	22.0	20.5	19.0	18.0	17.0	18.9
7	17.1	16.7	15.2	14.1	14.6	14.4	16.6	17.8	20.0	22.1	24.5	27.0	28.5	29.9	30.8	30.8	29.6	28.4	26.3	24.2	23.0	22.7	22.3	21.1	22.4
8	20.3	19.8	20.0	18.2	19.0	18.2	18.2	19.6	20.6	20.5	22.6	23.9	24.7	25.8	26.4	25.4	24.7	23.4	19.6	17.7	16.8	15.9	15.2	14.6	20.5
9	14.2	13.8	13.0	12.3	12.1	12.1	12.0	12.7	14.3	15.6	16.8	17.0	16.5	17.0	17.5	16.7	16.6	16.3	15.9	15.7	15.4	15.0	14.2	13.3	14.8
10	13.1	13.1	13.0	10.0	9.8	10.0	10.0	10.6	11.4	12.2	14.1	15.3	16.5	17.0	17.2	16.1	13.8	13.0	13.3	12.6	11.9	11.4	11.2	10.5	12.8
11	10.7	10.3	9.8	9.9	9.4	8.5	9.5	9.9	11.7	13.3	14.9	15.5	16.4	17.5	18.0	17.6	17.2	16.0	14.3	13.4	12.3	11.4	11.2	10.5	12.9
12	9.9	9.4	8.1	7.6	7.2	7.2	6.9	8.0	11.2	14.1	15.0	16.6	18.5	19.8	20.6	20.6	20.1	19.2	18.1	17.3	16.2	14.6	13.6	12.9	13.9
13	12.1	11.1	10.5	10.5	10.1	10.1	10.4	11.9	15.0	18.3	19.4	21.9	24.1	25.5	26.5	27.6	27.2	24.9	22.5	21.0	19.8	19.1	17.9	17.6	18.1
14	17.2	16.8	16.5	16.9	16.4	15.1	16.0	16.4	17.1	19.1	21.8	22.8	23.8	24.8	25.1	25.0	24.6	23.2	21.7	19.5	18.0	17.1	16.9	16.6	19.5
15	15.9	15.5	15.6	14.7	13.7	12.9	13.1	13.3	14.2	15.2	16.6	18.6	20.1	21.0	21.7	21.7	20.8	20.1	19.2	17.9	16.4	16.0	15.3	13.2	16.8
16	12.6	12.7	12.0	12.3	12.3	11.3	10.9	11.9	13.5	15.3	16.8	18.8	20.2	21.3	21.8	22.3	22.2	21.2	19.4	17.4	16.3	15.8	15.6	14.8	16.2
17	15.3	15.3	15.1	14.4	13.4	13.3	12.7	12.4	15.9	18.7	20.2	22.3	23.6	24.6	25.2	25.9	25.8	24.2	22.5	21.2	19.5	18.2	17.2	16.9	18.9
18	17.5	18.1	17.4	17.4	16.4	15.1	16.0	17.9	19.3	21.2	23.1	24.3	25.7	26.5	27.1	26.8	26.2	25.2	23.7	21.2	21.5	18.3	17.3	15.6	20.8
19	14.0	13.1	12.5	11.4	10.3	10.0	10.1	10.3	10.8	11.6	13.5	17.5	20.6	22.1	24.6	24.7	24.0	21.4	20.3	18.7	17.7	16.4	16.6	15.9	16.2
20	15.6	14.2	12.0	11.4	11.5	11.0	10.8	10.9	11.8	12.9	14.9	17.7	18.6	19.4	20.1	19.8	19.2	18.1	16.5	16.0	14.1	13.2	12.7	12.5	14.8
21	12.4	12.4	12.4	12.3	12.2	12.1	12.0	12.2	12.8	13.2	13.6	13.7	14.3	14.3	13.7	13.6	13.6	13.5	13.5	13.4	12.9	12.5	12.4	12.5	13.0
22	12.6	12.6	12.3	12.3	12.2	12.1	12.1	11.9	11.3	11.8	12.7	13.5	14.0	14.4	14.8	15.4	15.6	14.8	13.4	12.6	11.9	11.7	11.1	10.7	12.8
23	10.9	10.6	9.7	9.2	9.3	9.3	9.0	10.3	12.1	14.5	15.2	16.5	17.5	18.3	18.6	18.6	18.1	16.6	15.5	14.4	13.9	13.6	12.8	12.6	13.6
24	12.9	12.1	11.6	10.8	9.8	10.0	10.8	11.6	12.6	14.9	16.3	17.5	18.5	19.4	19.8	19.6	18.9	17.7	16.7	16.4	15.7	15.4	14.8	14.4	14.9
25	13.8	14.4	14.0	13.6	12.8	12.5	12.1	12.6	13.2	13.2	13.6	14.4	14.9	15.6	16.1	16.1	16.2	15.9	14.8	13.7	13.5	13.5	12.5	12.1	14.0
26	11.1	10.8	10.4	9.0	7.9	9.1	9.3	9.6	10.1	11.2	13.5	15.0	16.6	17.6	18.4	18.3	17.1	16.3	15.4	14.5	13.6	12.4	12.0	11.6	13.0
27	10.9	10.9	11.2	9.3	8.9	9.9	9.8	10.7	12.3	14.3	16.7	18.3	20.0	21.1	21.4	21.6	21.2	19.8	18.0	17.0	15.9	14.9	15.2	15.2	15.2
28	14.8	15.0	14.3	14.2	14.2	14.1	14.1	13.2	14.0	15.9	17.4	19.9	21.9	22.9	23.5	23.1	22.5	20.4	18.9	18.0	16.9	16.7	15.9	15.3	17.4
29	15.5	14.5	14.2	13.7	13.3	13.5	13.7	13.6	13.7	14.5	15.6	16.6	17.6	18.4	18.3	18.4	17.5	15.8	14.6	13.3	12.6	11.9	11.6	11.6	14.7
30	11.2	10.1	9.5	8.9	8.2	7.3	7.7	10.2	11.4	13.3	15.3	17.4	17.7	18.5	19.2	19.1	18.5	17.0	15.9	14.2	13.8	12.5	11.8	11.5	13.3

MONTHLY AVERAGE = 16.02

PRECIPITATION FOR CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN INCHES

	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	TOT
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.02	0.02
10	0.06	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	0.00	0.07
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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	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	0.01	0.00	0.00	0.00	0.02
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.03
23	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	0.00	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	0.01	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	0.01
28	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	0.00	0.01
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

MONTHLY TOTAL = 0.17

WIND SPEED/DIRECTION CEDAR HILLS LANDFILL
METEOROLGICAL MONITORING SYSTEM FOR
THE MONTH OF SEPTEMBER , 2012

IN MPH/DIR

	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
1	3E	4SE	6SE	5S	4S	4S	3S	4S	4S	3SW	5SW	6W	7W	7W	8W	7W	7W	5W	4W	5NE	5N	10NE	5E	4SE
2	3SW	3NE	4SE	1SE	2SE	1SE	3SW	3S	3S	4S	4W	5W	6W	6W	6W	6NW	7NW	5NW	6NW	6N	6NE	5NE	3NE	3NE
3	5NE	7NE	7NE	3NE	3NE	5NE	6NE	6NE	5NE	5NE	4NE	8NE	9N	9N	10N	10N	10NW	8NW	5NW	2N	2N	4NE	4NE	2E
4	2E	1SE	1S	1NW	2W	1N	2N	2NW	3NE	3NE	5N	6NW	10NW	8NW	9NW	7N	7N	8NW	7N	3N	7NE	10NE	8NE	5NE
5	4N	4NE	2S	1NW	2SW	1SE	2SE	2E	3S	2N	4NW	7NW	9NE	10N	8N	9N	8NW	8N	7N	5N	5N	8NE	9NE	5NE
6	6N	6NE	6NE	5NE	7NE	8NE	9NE	7NE	4NE	6NE	7NE	7NE	7NE	11NE	12N	11N	9N	7N	3NE	6NE	9NE	8NE	7NE	5NE
7	4NE	3N	4NE	4NE	6NE	6NE	2E	1NE	3N	3NE	4NE	4NE	8NE	6NE	8N	8N	12N	10N	8N	7NE	6NE	3NE	1NE	1E
8	4NW	5N	5SE	5S	2N	4NE	3N	2NW	3W	6SW	4SW	7SW	5SW	6SW	7SW	10W	8SW	8W	9W	8SW	7SW	9SW	8SW	8SW
9	7SW	7SW	8S	6S	5SE	7SE	7SE	8SE	8SE	9S	10SW	11SW	10SW	10S	11SW	10S	11SW	12SW	15SW	11S	12SW	11S	12S	10S
10	10S	11S	8SW	14N	9NE	7NE	6SE	5SE	5SE	5SE	6S	5SE	6SW	5SW	8W	10NW	7N	8NE	10N	15NE	16NE	16NE	7NE	1NE
11	2N	2NE	1N	2N	4NE	3NE	2NE	5NE	9NE	8N	7NE	10NE	9NE	7N	9NW	9N	10N	11N	7NW	12N	12N	7NE	6NE	8NE
12	8NE	9NE	4N	6NE	6NE	9NE	10NE	8NE	4NE	9NE	13NE	12NE	11NE	12N	12N	14N	14N	12NE	11NE	13N	13N	13NE	13NE	13NE
13	9NE	7NE	8NE	8NE	7NE	7NE	7N	6NE	4N	3N	4NE	6NE	6NE	6NE	6NE	5N	3N	2SW	5NE	5NE	5NE	7NE	4NE	2NW
14	1N	1N	0E	0SW	1NW	1NW	1SE	2N	1NW	2NE	2NE	5W	7W	7W	8W	8W	6W	4W	4NW	6NE	4NE	4NE	3NE	1SE
15	1S	1E	2SE	3S	5S	5S	6SE	5SW	4S	3SW	3SW	3SW	4W	3W	5NW	5W	5W	2NW	2NW	4NE	3NE	2NE	2N	4NE
16	4NE	3NE	2NE	0SE	1N	2W	3S	3SW	1SW	2NE	3NE	3N	5NE	6NE	8NE	6N	5N	4N	5N	5NE	5NE	6NE	5NE	3NE
17	1NE	0SE	1E	2N	3NE	2N	3NE	4NE	1NE	2E	5NE	5NE	5NE	7NE	9NE	6NE	4W	3W	2NE	2NE	2NE	2NE	2NE	3NE
18	1E	1SE	2S	0E	1NE	4N	1SE	2S	2SW	2N	3S	4W	5W	5W	6W	7W	5W	3W	2N	4NE	2E	6S	5S	3SW
19	3S	3SW	2S	4SW	5SW	3S	1S	1S	1SW	2NE	2S	2N	3N	4W	7N	13N	5W	5W	2N	3NE	4E	4NE	1SE	1S
20	1NE	2NW	4S	5S	2SE	3NE	3NW	1SE	2E	4SW	4W	4W	7SW	6SW	6W	7SW	8SW	5W	5W	2SW	4SW	5SW	7SW	4S
21	3SE	4S	5S	5SW	5SW	4SW	5S	4S	6SE	7S	5S	4S	3SE	5SW	2W	2NE	3NE	3E	2SE	4W	1N	2E	2E	2SE
22	2S	2S	1E	2S	3S	3S	3S	4SE	7NE	7N	3N	4NE	4NE	4NE	5NE	4NE	4NE	4NE	4NE	3NE	3NE	2NE	0N	0N
23	0NE	0N	1NE	1N	1W	2NE	4NE	2NE	2NE	2SE	3N	4NE	5NE	5NW	4W	4W	7W	7NW	5N	4NE	2NE	0NE	3NE	3NE
24	2NE	2NE	2NE	2NE	3NE	4NE	2NE	1E	2S	2W	3NW	7NE	7NE	7NE	5NE	6NW	6NW	7NW	6N	4NW	3NE	6N	7NE	6NE
25	5NE	8NE	5NE	4N	7NE	7NE	8NE	3N	4NW	5W	5W	4W	3N	4N	4N	5NE	3NE	2NE	2E	3E	2E	1N	0S	0SW
26	1S	0W	1N	3NE	3NE	2N	2NW	1W	3W	2NE	3NE	4NW	5NW	6W	5W	6NW	6NW	5N	5NE	4NE	3NE	4NE	4NE	3NE
27	5NE	5N	3N	5NE	3NE	3NE	2NE	2W	1E	2N	3NE	4NE	4NW	5NW	5W	4W	3N	3NW	3NE	3E	3NE	3NE	1NE	2S
28	1E	2SE	1E	1E	1SW	2SE	3S	5SE	4NW	3SW	3S	4SE	5SW	4W	4W	5W	3N	5NE	4NE	4NE	3E	6SE	4SE	5S
29	2S	4NE	7NE	9NE	10NE	12NE	13NE	13NE	12N	8NE	7NE	5NW	5NW	6NW	9N	7N	10NW	7NW	6N	8NE	8NE	7NE	9NE	9NE
30	12NE	3NE	2NE	3NE	3N	4NE	3NE	1E	2N	3NE	3N	6N	11NE	10NE	9N	8N	7NW	6N	8N	8N	10NE	6NE	4NE	2N

MONTH JULY

YEAR 2012

LOCATION Cedar Hills Landfill

DAY	°F MAXIMUM TEMPERATURE	°F MINIMUM TEMPERATURE	RAIN IN INCHES
1	68	56	.04
2	66	52	.01
3	69	52	.56
4	64	46	.03
5	70	48	Ø
6			
7	80	52	Ø
8	80	56	Ø
9	82	60	Ø
10	80	58	0
11	82	58	Ø
12	82	54	Ø
13	82	54	0
14	76	58	.06
15	78	64	.103
16	68	54	0
17	80	54	.02
18	78	60	.02
19	72	60	Ø
20	80	60	.17
21	66	58	.21
22	76	54	Ø
23	66	52	.13
24	68	52	0
25	72	54	0
26	82	56	0
27	82	60	0
28	68	60	0
29	74	60	0
30	76	64	0
31	68	53	trace

NOTE: ALL READINGS SHOULD BE TAKEN AT 9:00 A.M. EACH DAY

MONTH August

YEAR 2012

LOCATION Cedar Hills Landfill

DAY	°F MAXIMUM TEMPERATURE	°F MINIMUM TEMPERATURE	RAIN IN INCHES
1	72	52	—
2	78	59	—
3	74	44	Ø
4	80	62	Ø
5	92	66	Ø
6	92	64	Ø
7	84	58	0
8	68	62	0
9	72	56	0
10	74	54	0
11	76	54	0
12	82	60	0
13	86	60	0
14	84	58	Ø
15			
16	86	60	Ø
17	92	64	Ø
18	92	60	Ø
19	78	62	.02
20	74	62	—
21	78	62	0
22	74	64	0
23	72	66	0
24	70	50	0
25	70	48	0
26	80	50	0
27			0
28	76	52	Ø
29	74	56	Ø
30	72	58	Ø
31	74	52	Ø

NOTE: ALL READINGS SHOULD BE TAKEN AT 9:00 A.M. EACH DAY.

MONTH Sept LOCATION Cedar Hills

YEAR 2012

DAY	°F MAXIMUM TEMPERATURE	°F MINIMUM TEMPERATURE	RAIN IN INCHES
1	70	50	Ø
2	70	52	Ø
3	70	50	Ø
4	72	50	0
5	76	50	0
6	78	54	0
7	82	54	0
8	88	54	0
9	82	56	0
10	66	50	.10
11	68	46	.02
12	64	42	Ø
13	70	50	Ø
14	82	52	Ø
15	80	52	Ø
16	72	48	Ø
17	74	52	Ø
18	83	66	0
19	82	52	0
20	78	50	0
21	70	50	Tr
22	62	54	.01
23	62	46	.03
24	66	48	0
25	68	48	Ø
26	64	46	Ø
27			
28	70	48	.02
29	74	56	Ø
30	66	44	Ø
31			

NOTE: ALL READINGS SHOULD BE TAKEN AT 9:00 A.M. EACH DAY

APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL
AREA 5 TOP DECK
QUARTERLY MONITORING REPORT

Third Quarter 2012

King County

Department of Natural Resources and Parks
Solid Waste Division

November 2012

Printed on recycled paper

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AREA 5 TOP DECK MONITORING
QUARTERLY REPORT

THIRD QUARTER 2012

This report provides the quarterly performance analysis of the interim soil cover system over Area 5 of 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, which is to provide a barrier between stormwater runoff and the underlying waste. Monitoring of stormwater, leachate and the top deck surface is conducted and reported on a quarterly basis 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 continuing to experience technical issues with its leachate volume calculation system for Area 5. We are working to resolve these issues and plan to report the logged data in the earliest Top Deck Monitoring Report.

KCSWD staff will continue to evaluate leachate volumes collected throughout the landfill that are pumped to the wastewater treatment plant. We will also continue to compare the historical volumes generated through typical landfill construction and closure with the phased closure and interim top deck cover utilized in Area 5. These comparisons provide an initial effort to assess 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
SITEWIDE LEACHATE PRODUCTION

Year	Leachate	Surface Area of Refuse Areas	Refuse In Place	Precipitation	Flow	Flow	Flow	Flow
	(MG/yr)	(acres)	(lb)	(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	130.788	353.12*	53,916,565,694	34.82	370,378	10,637	0.0024	0.00007

2012: Precipitation, leachate and refuse in place through 9/30/12

* The 353.12 acre value was a plan view area calculated in AutoCAD, using the area inquiry feature of a closed polyline

II. SURFACE MONITORING

KCSWD provided a plan for surface monitoring for the top deck of Area 5. This monitoring plan is composed of three parts: landfill gas inspections, leachate seep inspections and 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
Serpentine walks are conducted across Area 5 top deck and its side slopes on a quarterly basis (see Appendix B: *Plot of GPS Generated Track Lines*). This report contains the third quarter's Serpentine Surface Monitoring Data that were generated from September 18th to September 26th, 2012.

Site Inspections
In addition to the serpentine walks, monthly inspections of the gas system, stormwater system, and cover system of Area 5 are performed by the Solid Waste Operations staff. All internal inspection reports showed satisfactory conditions this quarter. These inspection reports are included in Appendix A: *Inspection Reports*.

Also, throughout the third quarter Engineering Services Section (ESS) staff performed monthly Landfill Facility Site Inspections. The only actions suggested pertained to a discolored surface water channel at E and E1 in September. This location will be sampled and vactored, then monitored to check for problems. All ESS Inspections are included in Appendix A.

During the third quarter, three Health Department Inspections were performed at Cedar Hills Regional Landfill. The first report was logged on July 5th, the second on July 19th and the third on September 28th. None of these reports noted any issues or need for action in Area 5. All Health Department Inspection Reports are attached in Appendix A.

Leachate Seep Inspections
Visual inspections for leachate seeps are conducted by KCSWD operations personnel in conjunction with the surface emissions monitoring. No indications of leachate seeps were recorded during the quarter by either SWD or Health Department 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 were measured in Area 5 on July 12th, 2012. The survey data is given in Table 2, and the settlement at each point is given in Table 3, which demonstrates that the refuse settlement (feet/month) continues to slowly decrease with time, as expected. No erosion has been observed.

Future plans for Area 5 are for continued filling to the approved 788 foot elevation. This filling will occur following the filling of Area 8, which was approved by the King County Council on Dec. 6, 2010.

TABLE 2
AREA 5 SURFACE SURVEY DATA

Station	Date	Elevation	Station	Date	Elevation
	10/4/2005	699.18	**A5SM2**	1/23/2012	764.53
	2/1/2006	697.7	**(cont.)**	5/18/2012	763.99
	6/27/2006	696.51		7/12/2012	763.83
	2/14/2007	694.53	**A5SM3**	2/14/2007	786.4
A5SM-1	7/24/2007	693.34	**NEW**	4/20/2007	786.25
	2/29/2008	691.77	**2/14/2007**	7/24/2007	785.68
	7/29/2008	691.26		2/29/2008	784.87
	11/24/2008	690.61		7/29/2008	784.31
	4/6/2009	690.16		11/24/2008	783.76
	7/9/2009	689.77		4/6/2009	783.35
	12/22/2009	689.13		7/9/2009	783.05
	3/1/2010	688.77		12/22/2009	782.44
	8/2/2010	688.6		3/1/2010	782.08
	12/21/2010	688.1		8/2/2010	781.78
	4/6/2011	687.83		12/21/2010	781.25
	8/8/2011	687.46		4/6/2011	780.94
	1/23/2012	687.19		8/8/2011	780.66
	5/18/2012	686.78		1/23/2012	780.26
	7/12/2012	686.69		5/18/2012	779.9
A5SM-2	10/4/2005	785.17		7/12/2012	779.69
	2/1/2006	782.52	**PMX20074**	8/16/2007	781.56
	6/27/2006	780.48	**NEW**	2/29/2008	780.1
	4/20/2007	776.95	**8/16/2007**	7/29/2008	779.13
	7/24/2007	775.63		11/24/2008	778.21
	2/29/2008	773.44		4/6/2009	777.41
	7/29/2008	772.2		7/9/2009	776.99
	11/24/2008	771.29		12/22/2009	776.1
	4/6/2009	770.35		3/1/2010	775.81
	7/9/2009	769.79		8/2/2010	775.29
	12/22/2009	768.6		12/21/2010	774.79
	3/1/2010	768.05		4/6/2011	774.42
	8/2/2010	767.28		8/8/2011	774.19
	12/21/2010	766.53		1/23/2012	773.79
	4/6/2011	765.86		5/18/2012	773.41
	8/8/2011	765.34		7/12/2012	773.26

TABLE 3						
AREA 5 SETTLEMENT (FEET)						
Settlement Point	**DATE**					
	6/06 - 7/07	**7/07 - 7/08**	**7/08 - 7/09**	**7/09 - 8/10**	**8/10 - 8/11**	**8/11 - 7/12**
A5SM-1	3.17	2.08	1.49	1.17	1.14	0.77
A5SM-2	4.85	3.43	2.41	2.51	1.94	1.51
A5SM-3	N/A	1.37	1.26	1.27	1.12	0.97
PMX2007-4	N/A	2.43	2.14	1.7	1.1	0.93
Average Settlement	4.01	2.33	1.83	1.66	1.33	1.05
Average Settlement (Feet/Month)	0.31	0.19	0.15	0.13	0.11	0.1

III. STORMWATER MONITORING

Collection of Stormwater Samples

Typically, samples used to evaluate whether Area 5 stormwater runoff is coming into contact with refuse are collected at monitoring stations SW-A5TD1, SW-A5TD2, SW-A5TD4, SW-A5TD6 (Shown in Figure 2), stormwater sample location SW-S1, and leachate sample location LAPI during the quarter. However, all of the stormwater sampling locations in Area 5 were dry throughout the 3rd quarter and only one sample could be collected at SW-S1 due to dry conditions. Because of this, we are unable to compare the quality of the Area 5 stormwater to that of uncontaminated stormwater and contaminated leachate for this quarter and provide conclusions to whether the interim soil cover is providing a sufficient barrier between runoff and refuse.

IV. CONCLUSIONS

There are no major changes between previous quarters and the third quarter shown by gas inspections, leachate inspections or settlement measurements. The area continues to require no major maintenance and no evidence of landfill gas leaks have been observed. There also continues to be no indication of leachate seeps and the surface is persistently settling at all measured points at a slowing rate, as expected.

Since stormwater data could not be collected during this quarter due to unusually dry conditions, we are unable to provide any conclusions on whether stormwater would have been contaminated by waste. Samples will continue to be taken during the 4th quarter and conclusions provided in the 4th Quarter Area 5 Top Deck Report.

FIGURES



LEGEND:

○ ACTIVE MONITORING STATION

Figure 1. Area 5 Settlement Monitoring Locations

DATE	REVISION	BY

KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
SETTLEMENT MONITORING LOCATIONS

APPROVED VOO DATE JUNE 2010
RECOMMENDED – DATE –
DESIGNED XXX.XXXX DRAWN TDP
PROJECT NO. SURVEY NO. SHEET 1 OF 1

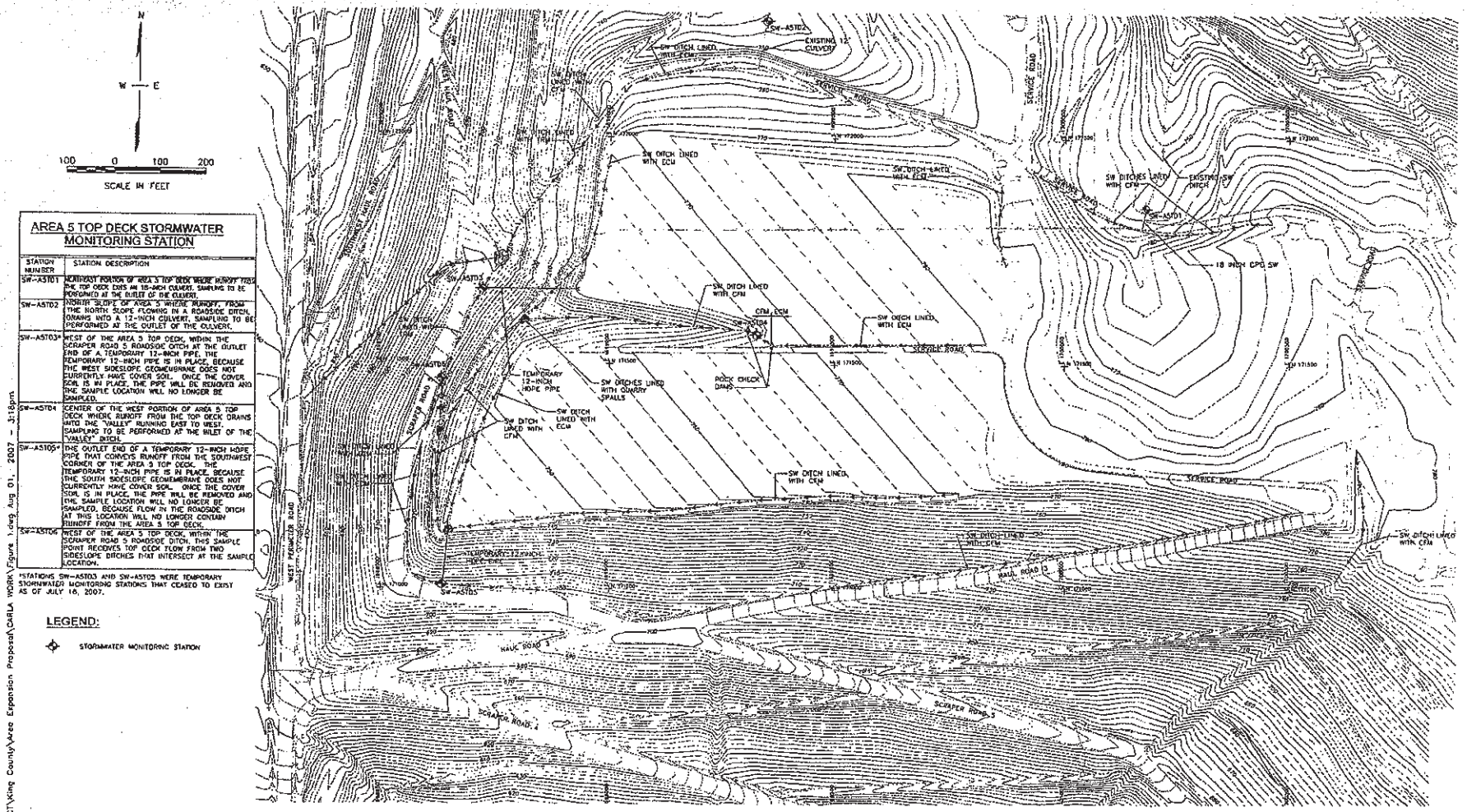


Figure 2. Top Deck Stormwater Monitoring Locations

Area 5 Top Deck
Stormwater Monitoring Stations

Cedar Hills Regional Landfill
Area 5 Stage 4 Final Closure
King County, Washington

FIGURE 2

P:\ADAD\PROJECT\King County\Area Expansion Proposal\CARLA WORK\Figure 1.dwg, Aug 01, 2007 - 3:18pm

APPENDIX A: INSPECTION REPORTS

ENGINEERING SERVICES SECTION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry Telephone: (206) 296-8453

Location: Cedar Hills Ambient Temperature (°F) 65 Weather Condition: Over Cast

Inspector's Signature: Stevn Larry Date: July 30-2012

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. Asbestos Pit	X	
5. Odor	X		5. Collection System	X		5. Perimeter Fences	X	
6. Flare Stations	X		a. Collection Pipes	X		6. Vegetation	X	
7. Air Compressors	X		b. Forcemains	X		7. Landfill Cover	X	
8. H_2S Scrubbers	X		c. Manholes	X		8. Drain Rock	X	
			d. Cleanouts	X		9. Air Quality	X	
D. Stormwater System			6. Generators	X		10. Stockpiles	X	
1. Ponds	X		7. Extraction Wells	X		11. Vectors	X	
2. CB / Control Structures	X		8. Valve / Cleanout	X		12. Compaction	X	
3. Pipes / Culverts	X		9. Groundwater Extraction Wells	X		13. Litter	X	
4. Trash Racks	X					14. Dust Control	X	
5. Ditches	X		**E. Roadway System**					
6. Runoff Control Berms	X		1. Road Sweeping	X		**F. Cover System / ESC**		
7. General	X		2. Access Roads	X		1. Vegetation	X	
			3. Road Erosion	X		2. Refuse	X	
G. Operations			4. Road Pavement	X		3. Cover Erosion	X	
1. Records Obtain / Review			5. Striping	X		4. Hay Bales, Silt Fences, Filter Fabric, etc.	X	

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				X			Overall, the entire site looks good. The only item noted was loose fence fabric along the south property line next to Cedar Grove Compost. See attached photos.	
2						X	Note: Some of the Bee-bar flowers are growing. The poor growth coverage is due to the lack of top soil placement. See attached photos.	
3								
4								
5								
6								
7								
8								
9								

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
10								
11								

AREA CODES (for Cedar Hills)

	G = Good	F = Fair	P = Poor
East Main Hill = EMH	Area 2/3 = A2/3	Aeration Ponds = AP	Area 5 = A5
Southwest Main Hill = SWMH	Area 4 = A4	So. Solid Waste Area = SSWA	Area 6 = A6
Southeast Pit Area = SEPA	Stockpile = SP	North Flare Station = NFS	Central Pit = CP

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

ENGINEERING SERVICES SECTION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: M.J. McEWEN Telephone: 206-296-0485

Location: CEDAR HILLS Ambient Temperature (°F) 70° Weather Condition: CLEAR, 70°F

Inspector's Signature: [signature] Date: 8/27/2012

ACTION CODES

A. Gas System	OK	Not OK	B. Leachate System	OK	Not OK	C. Landfill Operations	OK	Not OK
1. Pipe Penetrations	✓		1. Pump Stations	✓		1. Fueling Stations	✓	
2. Collection Piping			2. Aeration Lagoons / Basins			2. Vehicle Wash Stations		
3. Gas Extraction Wells			3. Aerators			3. Equipment		
4. Valve Stations			4. Weeps (strip drains)			4. Asbestos Pit		
5. Odor			5. Collection System			5. Perimeter Fences		
6. Flare Stations			a. Collection Pipes			6. Vegetation		
7. Air Compressors			b. Forcemains			7. Landfill Cover		
8. H_2S Scrubbers			c. Manholes			8. Drain Rock		
			d. Cleanouts			9. Air Quality		
D. Stormwater System			6. Generators			10. Stockpiles		
1. Ponds			7. Extraction Wells			11. Vectors		
2. CB / Control Structures			8. Valve / Cleanout			12. Compaction		
3. Pipes / Culverts			9. Groundwater Extraction Wells			13. Litter		
4. Trash Racks						14. Dust Control		
5. Ditches			**E. Roadway System**					
6. Runoff Control Berms			1. Road Sweeping			**F. Cover System / ESC**		
7. General			2. Access Roads			1. Vegetation		
			3. Road Erosion			2. Refuse		
G. Operations			4. Road Pavement			3. Cover Erosion		
1. Records Obtain / Review			5. Striping			4. Hay Bales, Silt Fences, Filter Fabric, etc.		

Action Code	Area Code(s) Area	Map	Status F	P	State Reason	Date Corrective Action Implemented
C-13	SHOP			✓	LITTER, OR? CORRECTED 8/28/12	
AS	GOOD AS WE				ERER SEEN THE SITE, GOOD	
ROAD	MAINTENANCE, GOOD VEGETATION CONTROL					
GOOD	SWEEPING				& DUST CONTROL, FENCES	O.K.

Area Codes (for Cedar Hills)

East Main Hill = EMH
Southwest Main Hill = SWMH
Southeast Pit Area = SEPA
Area 2/3 = A2/3
Area 4 = A4
Stockpile = SP
Aeration Ponds = AP
So. Solid Waste Area = SSWA
North Flare Station = NFS
Area 5 = A5
Area 6 = A6
Central Pit = CP

Status Codes

F = Fair
P = Poor

ENGINEERING SERVICES SECTION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry Telephone: 296-8543

Location: Cedar Hills Ambient Temperature (°F) 70 Weather Condition: Sunny Clear

Inspector's Signature: Stevn Larry Date: Sept. 13 2012

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. Asbestos Pit	X	
5. Odor	X		5. Collection System	X		5. Perimeter Fences		X
6. Flare Stations	X		a. Collection Pipes	X		6. Vegetation	X	
7. Air Compressors	X		b. Forcemains	X		7. Landfill Cover	X	
8. H_2S Scrubbers	X		c. Manholes	X		8. Drain Rock	X	
			d. Cleanouts	X		9. Air Quality	X	
D. Stormwater System			6. Generators	X		10. Stockpiles	X	
1. Ponds	X		7. Extraction Wells	X		11. Vectors	X	
2. CB / Control Structures	X		8. Valve / Cleanout	X		12. Compaction	X	
3. Pipes / Culverts	X		9. Groundwater Extraction Wells	X		13. Litter	X	
4. Trash Racks	X					14. Dust Control	X	
5. Ditches	X		**E. Roadway System**					
6. Runoff Control Berms	X		1. Road Sweeping	X		**F. Cover System / ESC**		
7. General	X		2. Access Roads	X		1. Vegetation	X	
			3. Road Erosion	X		2. Refuse	X	
G. Operations			4. Road Pavement	X		3. Cover Erosion	X	
1. Records Obtain / Review			5. Striping	X		4. Hay Bales, Silt Fences, Filter Fabric, etc.	X	

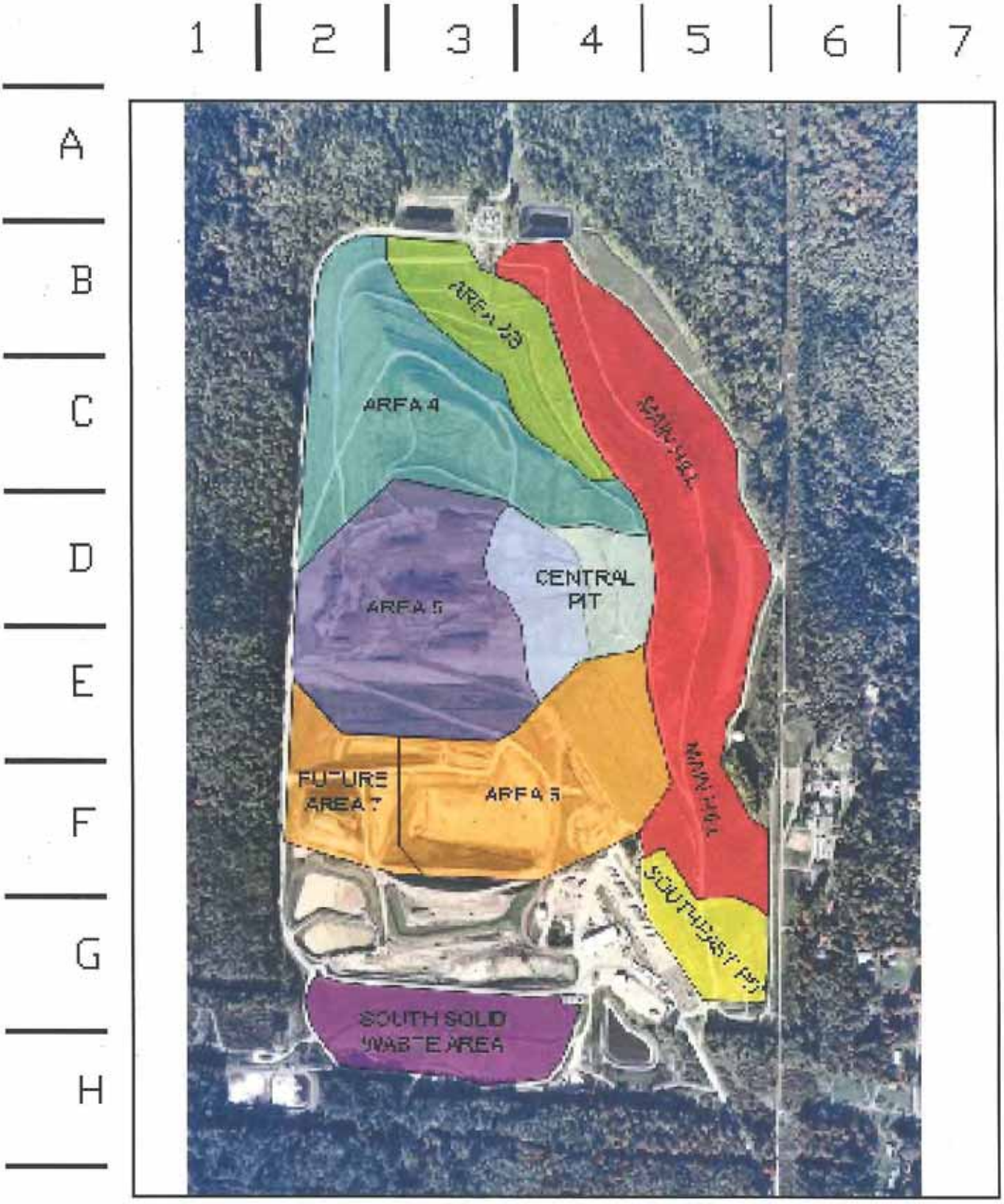
Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status G	F	P	State Reason if "Fair or Poor"	Date Corrective Action Implemented
1	D-5	G-5			X		Stained water at surface water channel located at E and E1 weirs. We will sample and vactor water, then monitor to see if there is a problem.	Sep 13 2012
2	C-5	H-5			X		30' feet of fence is missing, Hunter seen in the area.	Sep 13 2012
3	F-1	F-5		X			Overall the entire site looks good and vegetative control is on going, but there, are two small pocket of black berries growing along the BEW gas header.	
4							See attached photos	

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
5								
6								
7								
8								
9								
10								
11								

AREA CODES (for Cedar Hills)

	G = Good	F = Fair	P = Poor
East Main Hill = EMH	Area 2/3 = A2/3	Aeration Ponds = AP	Area 5 = A5
Southwest Main Hill = SWMH	Area 4 = A4	So. Solid Waste Area = SSWA	Area 6 = A6
Southeast Pit Area = SEPA	Stockpile = SP	North Flare Station = NFS	Central Pit = CP

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


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
AREA 4
CENTRAL PIT
AREA 5
FUTURE AREA 7
AREA 6
SOUTH SOLID WASTE AREA

Inspection Survey Report
Solid Waste Program

King County

Public Health – Seattle & King County
Environmental Hazards Section 206-205-4394
401 Fifth Avenue, Suite 1100 • Seattle, WA 98104

Business Name	Operator	Phone
Cedar Hills Regional Landfill	King County SWD	(206) 296-4490

Address	City	ZIP	Time In
16645 - 228th Ave. SE	Maple Valley	98038	14:31

EHS	Date	General Health Record ID	P/E	Activity Time	Travel Time
0 A V	0 7 0 5 1 2 (PR) SR	0 0 1 5 7 3 6	1 0 0 6	60 m	15 m

Violation Number	Violation Description	Correction Date
	No violations observed	

Service
126 ☐ Fld Pl Rvw
127 ☐ Pre-Operat
128 ☒ Routine
129 ☐ Return
130 ☐ Complaint
131 ☐ Comp Rtn
☐ _____

Results
01 ☒ Satisfactory
02 ☐ Unsatisfactory
07 ☐ In Compliance
08 ☐ Not in Compliance
22 ☐ Not Access
☐ _____

Action
00 ☒ Not Applicable
04 ☐ Suspend
07 ☐ Approved
08 ☐ App w/ Cond
26 ☐ Return Visit
27 ☐ Phone Follow
☐ _____

Misc
☐ Photos Taken

Weather
☒ Sunny
☐ Cloudy
☐ Partially Cloudy
☐ Showers
☐ Rain
☐ Wind
☐ Snow

Comments / Observations

Leachate Lagoons: No odors detected
Vactor Waste Drying pad: No odors or evidence of attraction for vectors
Area 7: Less debris present on side slopes of lower lift(s). Number of scavenging birds appears to be under control
Area 5: - No problems noted. - No landfill gas odor detected - No evidence of unattended blown debris (Good)
Mowing - A number of areas have been mowed as required. - Good
Continue to maintain and/or increase mowing in areas not yet addressed – (e.g. portions of site north of the water tower.
Note: No evidence of problems associated with dust on roads

Person in Charge	Health Authority
Judy Heimen	Ed Davis

Based on an inspection this day, the above listed violations must be corrected by the next routine inspection or such period of time as may be specified in writing by the health officer. Failure to comply with this notice may result in immediate suspension of your permit and/or assessment of civil penalties. An opportunity for an appeal of the findings of an inspection report will be provided if a written request is filed with the health officer within ten (10) days of the date of the suspension or inspection. The complete list of inspection items is contained on the back of this form.

Inspection Survey Report
Solid Waste Program

King County

Public Health – Seattle & King County
Environmental Hazards Section 206-205-4394
401 Fifth Avenue, Suite 1100 • Seattle, WA 98104

Page 1 of 1

Business Name	Operator	Phone
Cedar Hills Regional Landfill	K.C.S.W.D.	(206) 296-4490

Address	City	ZIP	Time In
16645 - 228th Ave. SE	Maple Valley	98038	1:42

EHS	Date	General Health Record ID	P/E	Activity Time	Travel Time
D A V	07/19/12 PR/SR	0015736	1006	68 m	105 m

Violation Number	Violation Description	Correction Date
	- No violations noted -	

Service
126 ☐ Fld Pl Rvw
127 ☐ Pre-Operat
128 ☒ Routine
129 ☐ Return
130 ☐ Complaint
131 ☐ Comp Rtn
☐ ____

Results
01 ☒ Satisfactory
02 ☐ Unsatisfactory
07 ☐ In Compliance
08 ☐ Not in Compliance
22 ☐ Not Access
☐ ____

Action
00 ☒ Not Applicable
04 ☐ Suspend
07 ☐ Approved
08 ☐ App w/ Cond
26 ☐ Return Visit
27 ☐ Phone Follow
☐ ____

Misc
☒ Photos Taken

Weather
☐ Sunny
☐ Cloudy
☒ Partially Cloudy
☐ Showers
☐ Rain
☐ Wind
☐ Snow

Comments / Observations

Road Surfaces - Street sweeper observed in operation
Area north of Water tank - mowing of vegetation needed.
Observed staff: clean up of wind blown debris
Area 7 - side slopes of lift have been graded - as a result less wind blown items are observed
Drying Pad: Mixture of liquid and dry waste - present. Slight odor detected. - Note waste in the process of drying.
No problems noted in Areas, Area 6, or Leachate lagoon areas, and Good Time Parking

Person in Charge: Judy Heimer

Health Authority: Ed Davis

Based on an inspection this day, the above listed violations must be corrected by the next routine inspection or such period of time as may be specified in writing by the health officer. Failure to comply with this notice may result in immediate suspension of your permit and/or assessment of civil penalties. An opportunity for an appeal of the findings of an inspection report will be provided if a written request is filed with the health office within ten (10) days of the date of the suspension or inspection. The complete list of inspection items is contained on the back of this form.

PH-0002 (Rev. 3/10)

Inspection Survey Report
Solid Waste Program

King County

Public Health – Seattle & King County
Environmental Hazards Section 206-205-4394
401 Fifth Avenue, Suite 1100 • Seattle, WA 98104

Business Name	Operator	Phone
Cedar Hills Regional Landfill	K.C.S.W.D.	(206) 296-4490

Address	City	ZIP	Time In
16645 228th Ave. SE	Maple Valley	98038	2:02/1402

EHS	Date	General Health Record ID	P/E	Activity Time	Travel Time
DAV	09281/2 (PR) SR	0015736	1006	106 m	105 m

Violation Number	Violation Description	Correction Date
	No Violations Observed or detected.	

Service
126 ☐ Fld Pl Rvw
127 ☐ Pre-Operat
128 ☒ Routine
129 ☐ Return
130 ☐ Complaint
131 ☐ Comp Rtn
☐ _____

Results
01 ☒ Satisfactory
02 ☐ Unsatisfactory
07 ☐ In Compliance
08 ☐ Not In Compliance
22 ☐ Not Access
☐ _____

Action
00 ☒ Not Applicable
04 ☐ Suspend
07 ☐ Approved
08 ☐ App w/ Cond
26 ☐ Return Visit
27 ☐ Phone Follow
☐ _____

Misc
☐ Photos Taken

Weather
☒ Sunny
☐ Cloudy
☐ Partially Cloudy
☐ Showers
☐ Rain
☐ Wind
☐ Snow

Comments / Observations

Area 7 – No evidence indicating a excess bird presence.
Area 5 & 6 – All seasonal construction has been completed.
Vactor waste drying bed – no odor or vector problems noted.
Mowing – All areas of landfill have been mowed for the season
Ditched areas are now clear of mud originating from water tank maintenance
Dust. – No problems with dust on site – Water trucks & sweeper in use

Person in Charge	Health Authority
Ann G. Osborne	Ed Davis

Based on an inspection this day, the above listed violations must be corrected by the next routine inspection or such period of time as may be specified in writing by the health officer. Failure to comply with this notice may result in immediate suspension of your permit and/or assessment of civil penalties. An opportunity for an appeal of the findings of an inspection report will be provided if a written request is filed with the health officer within ten (10) days of the date of the suspension or inspection. The complete list of inspection items is contained on the back of this form.

APPENDIX B: GAS MONITORING REPORTS

Work Order Report - WO# 0000009962

6/28/2012 9:30:05 AM

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

TECHNICIAN COPY

WO#: 0000009962
Date In: 06/28/2012 09:29
Date Promised: 06/29/2012 09:29
Date Out: 00:00
WO Status: A Last WO#:0000009925
WO Priority: Last WO Date: 06/04/2012
Track DownTime: Y Operator: WG

Equipment: CHAREASE License: na

Location: 20
Year: 2006
Make: UD
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Color:
Serial: na
Engine:

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
Cedar Hills Area 5 East

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	07/28/2012	Scheduled Inspection
W	W - WEEKS	07/09/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMS BS	PM Service | PMS per list | Billable | Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: CHAREA5E
Work Order: 0000009962

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
7-20	1	Gas- Monthly Header PM Area 5 East	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies	✓				

Top of Area 5 1 hr

Work Order Report - WO# 0000010088

8/2/2012 3:22:46 PM

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

TECHNICIAN COPY

WO#: 0000010088
Date In: 08/02/2012 15:22
Date Promised: 08/03/2012 15:22
Date Out: 00:00
WO Status: A Last WO#:0000010051
WO Priority: Last WO Date: 06/28/2012
Track DownTime: Y Operator: WG

Equipment: CHAREA5E License: na

Location: 20
Year: 2006
Make: UD
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Color:
Serial: na
Engine:

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:
Comments:
Cedar Hills Area 5 East

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	08/28/2012	Scheduled Inspection
W	W - WEEKS	08/06/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMS BS	PM Service | PMS per list | Billable | Scheduled, Target	0	761	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: CHAREASE
Work Order: 0000010088

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Monthly Header PM Area 5 East	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies					

8-13-12 JHK

Work Order Report - WO# 0000010216

8/30/2012 10:31:35 AM

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

TECHNICIAN COPY

WO#: 0000010216
Date In: 08/30/2012 10:31
Date Promised: 08/31/2012 10:31
Date Out: 00:00
WO Status: A Last WO#:0000010154
WO Priority: Last WO Date: 08/07/2012
Track DownTime: Y Operator: WG

Equipment: charea5e License: na

Location: 20
Year: 2006
Make: UD
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Color:
Serial: na
Engine:

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
Cedar Hills Area 5 East

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	09/28/2012	Scheduled Inspection
W	W - WEEKS	09/15/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: charea5e
Work Order: 0000010216

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
9/12	1	Gas- Monthly Header PM Area 5 East	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies					

35 m

Work Order Report - WO# 0000009961

6/28/2012 9:29:30 AM

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

TECHNICIAN COPY

WO#: 0000009961
Date In: 06/28/2012 09:29
Date Promised: 06/29/2012 09:29
Date Out: 00:00
WO Status: A Last WO#:0000009926
WO Priority: Last WO Date: 06/04/2012
Track DownTime: Y Operator: WG

Equipment: CHAREA5W License: na

Location: 20
Year: 2006
Make: UD
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Color:
Serial: na
Engine:

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
Cedar Hills Area 5 West

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	07/28/2012	Scheduled Inspection
W	W - WEEKS	07/09/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: CHAREA5W
Work Order: 0000009961

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
1-6	1	Gas- Monthly Header PM Area 5 West	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies	✓				

3/4 hr

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

TECHNICIAN COPY

WO#: 0000010087
Date In: 08/02/2012 15:21
Date Promised: 08/03/2012 15:21
Date Out: 00:00
WO Status: A Last WO#:0000010052
WO Priority: Last WO Date: 06/28/2012
Track DownTime: Y Operator: WG

Equipment: CHAREA5W License: na

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

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
Cedar Hills Area 5 West

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	08/28/2012	Scheduled Inspection
W	W - WEEKS	08/06/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMS BS	PM Service | PMS per list | Billable | Scheduled, Target	0	761 DJB	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: CHAREA5W
Work Order: 0000010087

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Monthly Header PM Area 5 West	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies					

8-13-12 1Hr

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

TECHNICIAN COPY

WO#: 0000010217
Date In: 08/30/2012 10:31
Date Promised: 08/31/2012 10:31
Date Out: 00:00
WO Status: A Last WO#:0000010155
WO Priority: Last WO Date: 08/07/2012
Track DownTime: Y Operator: WG

Equipment: charea5w License: na

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

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:
Comments:
Cedar Hills Area 5 West

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
S	0 - MONTHS	09/28/2012	Scheduled Inspection
W	W - WEEKS	09/15/2012	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Task List

Repair Code: PMS BS
Equipment: charea5w
Work Order: 0000010217

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
9/12	1	Gas- Monthly Header PM Area 5 West	✓				
	2	Gas- Ck collection field pipe integrity	✓				
	3	Gas- Ck collection field pipe alignment	✓				
	4	Gas- Ck for damage @ possible stress pts	✓				
	5	Gas- Ck for damage at vertical pipes	✓				
	6	Gas- Ck for damage at flare stations	✓				
	7	Gas- Ck for damage at well heads	✓				
	8	Gas- Note any deficiencies					

35 m

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

TECHNICIAN COPY

WO#: 0000010015
Date In: 06/28/2012 11:04
Date Promised: 06/29/2012 11:04
Date Out: 00:00
WO Status: A Last WO#:0000009889
WO Priority: Last WO Date: 06/04/2012
Track DownTime: Y Operator: WG

Equipment: CHAREA5 License: na

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

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:
Comments:
CH Area 5

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	07/10/2012	Gas System
T	0 - MONTHS	07/10/2012	Stormwater
V	0 - MONTHS	07/10/2012	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

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, CHAREAS23, CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (9)

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: 7/11/12

Work Order Report - WO# 0000010141

8/3/2012 9:20:31 AM

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

TECHNICIAN COPY

WO#: 0000010141
Date In: 08/03/2012 09:19
Date Promised: 08/04/2012 09:19
Date Out: 00:00
WO Status: A Last WO#:0000010015
WO Priority: Last WO Date: 06/28/2012
Track DownTime: Y Operator: WG

Equipment: CHAREA5 License: na

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

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
CH Area 5

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	08/10/2012	Gas System
T	0 - MONTHS	08/10/2012	Stormwater
V	0 - MONTHS	08/10/2012	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID		Est. Labor	Shop
PMG BS	PM Service | PM Gas System | Billable | Scheduled, Target	0	764		0.00000	Gas
PMT BS	PM Service | PM Stormwater | Billable | Scheduled, Target	0	764	JB	0.00000	Gas
PMV BS	PM Service | PM Cover System | Billable | Scheduled, Target	0	764		0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREAS23, CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (9)

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: 8/27/12

Work Order Report - WO# 0000010268

8/30/2012 11:29:25 AM

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

TECHNICIAN COPY

WO#: 0000010268
Date In: 08/30/2012 11:28
Date Promised: 08/31/2012 11:28
Date Out: 00:00
WO Status: A Last WO#:0000010141
WO Priority: Last WO Date: 08/03/2012
Track DownTime: Y Operator: WG

Equipment: charea5 License: na

Location: 20
Year: 2006
Make: UD
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Color:
Serial: na
Engine:

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:

Comments:
CH Area 5

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	09/10/2012	Gas System
T	0 - MONTHS	09/10/2012	Stormwater
V	0 - MONTHS	09/10/2012	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

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, CHAREAS23, CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (9)

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: 9-21-12

Cedar Hills Regional Landfill

Quarterly Surface Emission Monitoring
Plot of GPS Generated Track Lines

SEPTEMBER 2012

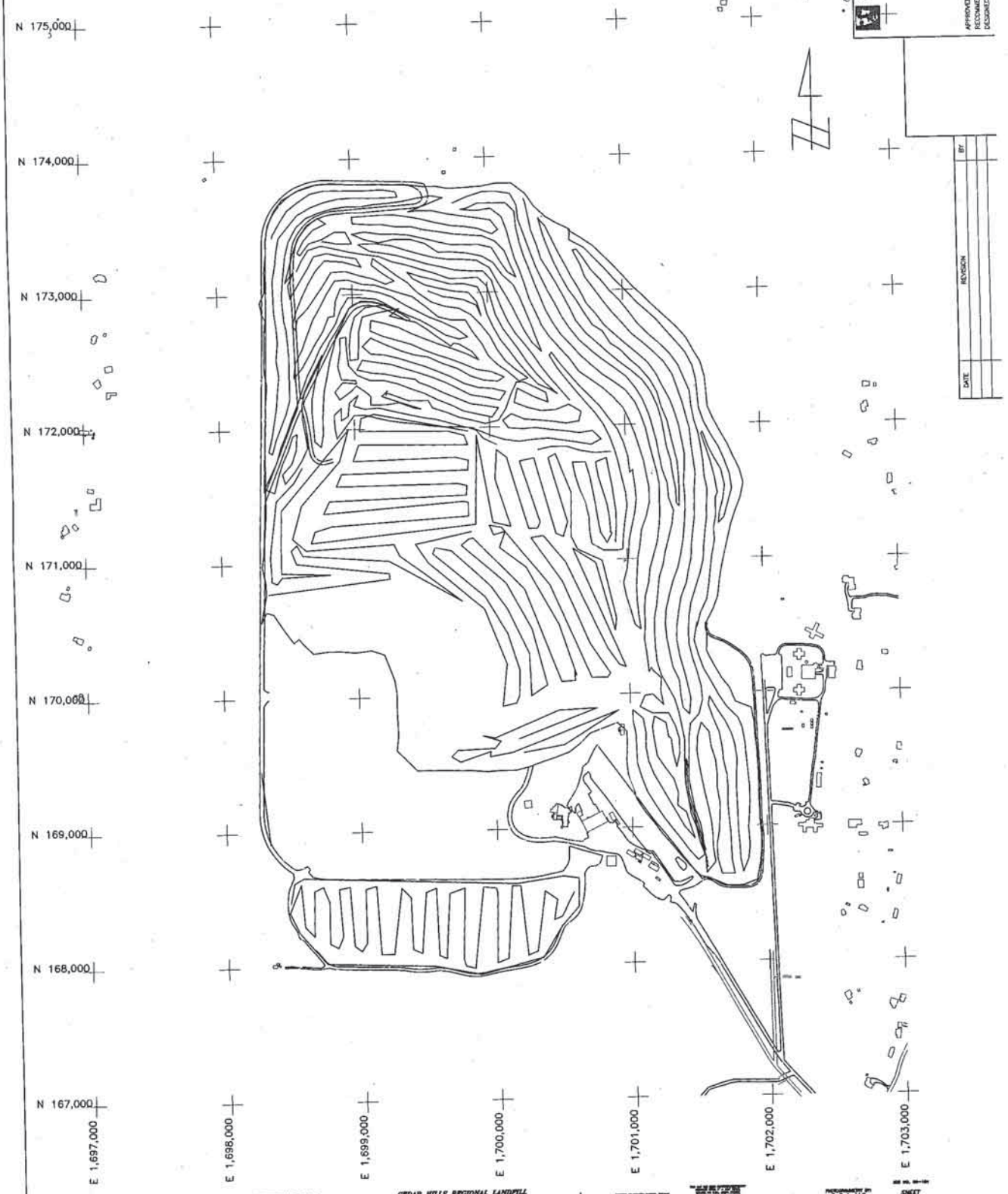
Scale 1"=600'

KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS
Christie True, Director
SOLID WASTE DIVISION

CEDAR HILLS QUARTERLY
GAS EMMISIONS MONITORING

APPROVED — DATE XX-XX-XX
RECOMMENDED — DATE —
DESIGNED — DRAWN MJM

REVISION | BY | DATE



KING COUNTY SOLID WASTE
201 S JACKSON ST. SUITE 701
SEATTLE, WA. 98104-3855

KING COUNTY SOLID WASTE

CEDAR HILLS REGIONAL LANDFILL

SCALE: 1" = 600'
CONTOUR INTERVAL: 5FT.
DATE OF PHOTOGRAPH : 01-17-00

PHOTOGRAMMETRY BY
3 D L LLC

SHEET 1

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-18-12

Cal. Time: 7:00

Calibration :

Technician: Dyn

Test Instrument used: TVA-1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496ppm

O_2 Amb.

Barometric Pressure	Time
Start 30.02	7:00
Stop	11:30

90% response time in seconds:

1 6 seconds

2 7 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-18-12

Cal. Time: 11:30 a

Calibration :

Technician: Dgm

Test Instrument used: TVA-1000

Surveyor

Cal. Gas Lot No: Z0328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start	11:30 a
Stop 30.02	4:35 p

90% response time in seconds:

1 6 seconds

2 5 seconds

3 5 seconds

avg. 5 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 6 mph W

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-19-12

Cal. Time: 7:00

Calibration :

Technician: DJ

Test Instrument used: TVA-1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 49 ppm

O_2 Amb

Barometric Pressure	Time
Start 30.09	7:00
Stop	11:00

90% response time in seconds:

1 6 seconds

2 6 seconds

3 5 seconds

avg. 6 seconds

Weather Conditions: Fog

Wind Speed &

Direction (out of): 2 mph SE

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-19-12

Cal. Time: 1400pm

Calibration :

Technician: Dyc

Test Instrument used: TVA-1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start	1500 p.
Stop 30.10	5:00 p.

90% response time in seconds:

1 7 seconds

2 6 seconds

3 5 seconds

avg. 6 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 7 mph N

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 4-20-12

Cal. Time: 7:00

Technician: DJ

Surveyor

Calibration :

Test Instrument used: TVA-1000

Cal. Gas Lot No: Z0328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start 30.10	7:00
Stop	12:00 pm

90% response time in seconds:

1 6 seconds

2 6 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: Fog

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-20-12

Cal. Time: 12:00pm

Calibration :

Technician: [signature]

Test Instrument used: TVA-1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start	12:00pm
Stop 30.03	4:30pm

90% response time in seconds:

1 6 seconds

2 5 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 6 mph SW

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-24-12

Cal. Time: 7:00 Am

Technician: JB

Surveyor

Calibration :

Test Instrument used: T.V.A.-1000

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb.

Barometric Pressure	Time
Start 30.11	7:00 Am
Stop	12:00pm

90% response time in seconds:

1 5 seconds

2 6 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: Hazy & Fog

Wind Speed &

Direction (out of): 2mph SW

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-24-12

Cal. Time: 12:00 pm

Calibration :

Technician: JD

Test Instrument used: TVA. 1000

Surveyor _____

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start	12:00 pm
Stop 30.08	4:50 pm

90% response time in seconds:

1 6 seconds

2 7 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: partly cloudy, Hazy

Wind Speed &

Direction (out of): 4 mph North

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-25-12

Cal. Time: 7:00 Am

Calibration :

Technician: JD

Test Instrument used: TVA 1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb.

Barometric Pressure	Time
Start 30.10	7:00 Am
Stop	12:00 pm

90% response time in seconds:

1 6 seconds

2 7 seconds

3 7 seconds

avg. 7 seconds

Weather Conditions: mostly Cloudy

Wind Speed &

Direction (out of): 7mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-25-12

Cal. Time: 12:00 pm

Technician: JB

Surveyor

Calibration :

Test Instrument used: TVA 1000

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb.

Barometric Pressure	Time
Start	12:00 pm
Stop 30.12	4:00 pm

90% response time in seconds:

1 5 seconds

2 6 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: mostly Cloudy

Wind Speed &

Direction (out of): 5 mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-26-12

Cal. Time: 7:00 Am

Calibration :

Technician: JJB

Test Instrument used: TVA 1000

Surveyor

Cal. Gas Lot No: 20328

Cal Gas Used:

CH_4 496 ppm

O_2 Amb

Barometric Pressure	Time
Start	7:00 Am
Stop	11:00 Am

90% response time in seconds:

1 6 seconds

2 5 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: Fog & Hazy

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments

CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Third Quarter 2012



Department of Natural Resources and Parks
Solid Waste Division

Printed on recycled paper

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 Third Quarter of 2012

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.

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, which was developed in the *Cedar Hills Regional Landfill Technical Memorandum Phase I Investigations Groundwater Monitoring Well System Enhancements*, 2007, and refined in the *Cedar Hills Regional Landfill Regional Aquifer Technical Memorandum,* 2011. 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. Primary Ground Water Quality Criteria were exceeded in upgradient wells for arsenic (wells MW-64, MW-93 and MW-99), trichloroethylene (wells MW-76 and MW-82) and vinyl chloride (MW-65). In downgradient wells, arsenic exceeded the criteria in four wells (MW-80, MW-88, MW-89 and MW-91). Secondary standards (pH, iron and manganese) were exceeded in numerous regional wells. These results are consistent with past analyses.

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 no samples greater than 10% ion imbalance.

Intra-well prediction limits are calculated annually using data collected through the end of the previous calendar year (2011). Comparison to calculated prediction limits provides an indication of whether a change in concentration represents normal variability or a change in water quality. Nitrate in MW-66 was the only prediction limit exceedance this quarter in the regional aquifer (Table 5).

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-78, MW-82, MW-83, and MW-94; *cis*-1,2-dichloroethene was detected in MW-24, 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.

Acetone was detected in several regional wells (up and downgradient) and in QC blanks, all probable laboratory artifacts. Quality Assurance /Quality Control (QA/QC) samples (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 eight perched wells, four in the north and west areas of the landfill (MW-27A, MW-28, MW-29 and MW-55), three in the east perched zone (MW-30A, MW-47 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 third quarter of 2012 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) in MW-EB6, which is a low yield and slow recovering well making it difficult to get a representative sample.

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2011 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 ten 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. Samples were obtained from each designated compliance station monthly this quarter. Compliance sample exceedances are presented in Table 12. Surface water quality is highly correlated with precipitation events that can mobilize sediments. These fluctuations are often limited to the duration of the events.

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.

Following methane detections above the regulatory limit in landfill gas probe GP-33C, actions were taken to evaluate and control LFG migration. Initial actions included: monitoring frequency increases, operational adjustments to increase LFG recovery rates, off-site structure monitoring and preparation of a response plan.

Daily monitoring of LFG migration probes located along the western property line began on October 20th 2011 and continued through the end of the year. Methane detections were limited to two probes, GP-30B and GP-33C, and daily monitoring of these two locations continues.

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

We are continuing to follow our response plan, *Cedar Hills Regional Landfill Mitigation Plan for Landfill Gas,* which was submitted to and approved by Public Health of Seattle - King County in November 2011. The plan targeted the potential zone of LFG migration in the native sediments with seven LFG extraction wells.

In August, drilling began to install up to eight more borings to further assess gas presence and migration control. Currently, four additional wells have been completed targeting highly transmissive sediments. These wells are monitored daily for methane, carbon dioxide, oxygen and static pressure. They indicate little presence of LFG (maximum methane concentration 0.6% by volume) and are not connected to

the active extraction system.

The seven original extraction wells continue under active extraction, are currently monitored daily for methane, carbon dioxide, oxygen, pressure and flow. The system has been effective in controlling LFG migration to the perimeter probes with no methane detections this quarter.

Compliance and supplemental LFG 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 State and Federal Surface Water Criteria. 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 also on selected analytes that are common groundwater constituents and have high detection frequencies. It 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 15.

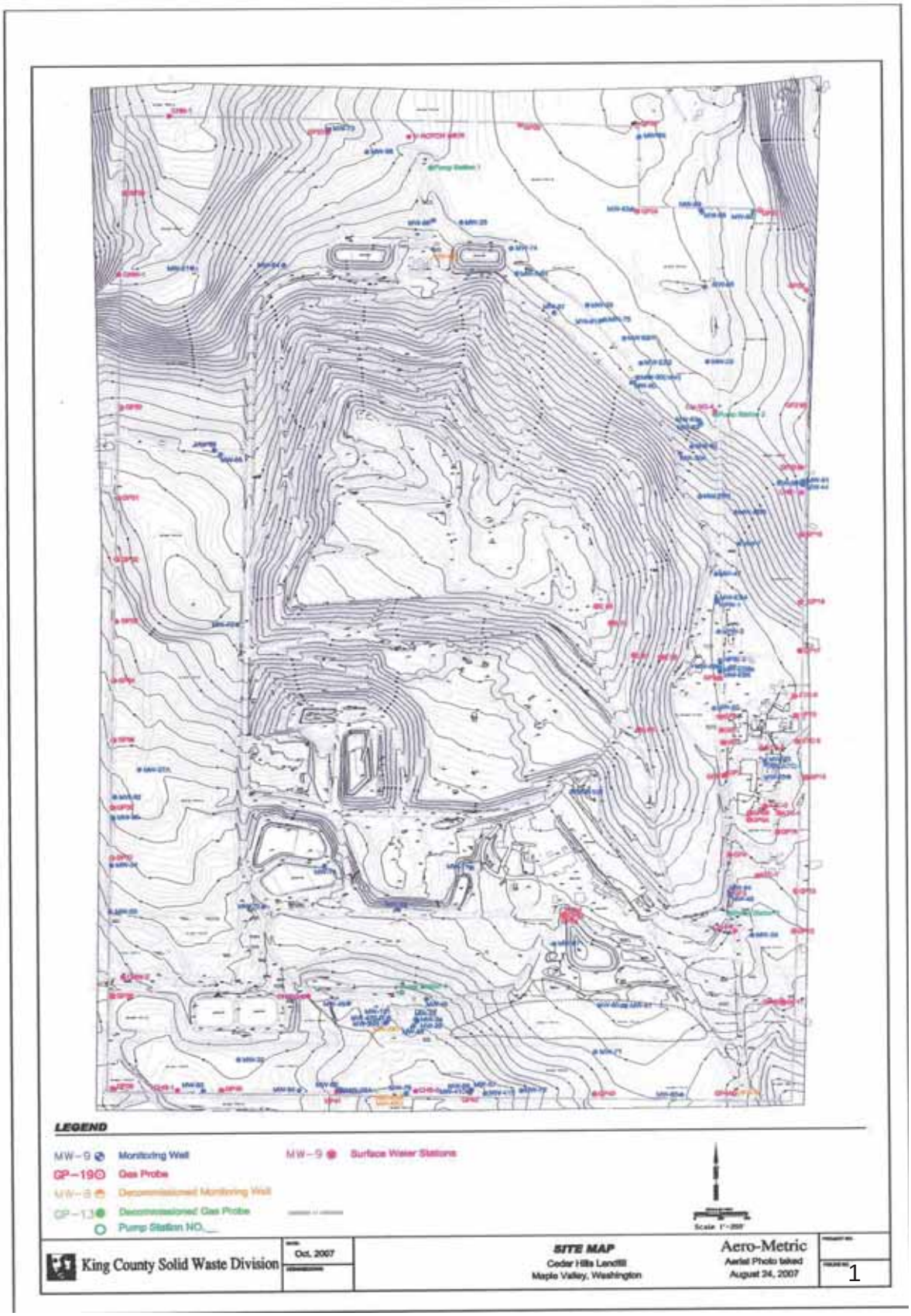

LEGEND
MW-9 Monitoring Well
GP-19 Gas Probe
MW-8 Decommissioned Monitoring Well
GP-13 Decommissioned Gas Probe
Pump Station NO.__
MW-9 Surface Water Stations
King County Solid Waste Division
Oct. 2007
SITE MAP
Cedar Hills Landfill
Maple Valley, Washington
Aero-Metric
Aerial Photo taked
August 24, 2007
1

TABLE 1
SUMMARY OF CEDAR HILLS REGIONAL LANDFILL GROUNDWATER WELLS

Well Number	Date Constructed	Aquifer	Zone[1]	Purpose[2]	Ground Surface Elevation	Top of Well Casing Elevation	Total Well Depth	Screened Interval Depth		Screened Interval Elevation		Coordinates Northing	Easting
M 2	1 19	Regional		L Q		99	19 0	1	192	2	2 1	1	1 02 1
M	9 2 19	Regional		L	9	0	0 0	29	1	2 0	22	1	1 021 2
M	10 12 19	Regional		L Q	9 2	0	1 0	1	1	2 2	1 2	1 21 2	1 9 9 0
M	22 19	Regional		L Q			1	129	1	2	11	1 201 99	1 9999 2
M	9 2 19	Regional		L Q		9 2	220	20	21	2 0 1	2 0 1	1 20 1	1 9900 9
M 9	1 19	Regional		L Q		1	1	1 0	1 0	2 1	2 1	19	1 999 91
M 0	9 1 1991	Regional		L Q		1	2	2 0	2 9		2	1 2	1 011
M	29 199	Regional		L Q	2		2 9	22	2	1	0 9	1 1	1 01 02 10
M	10 2 1999	Regional		L Q	9	91 1	1 9	1	1 2	1 1	1	19 1	1 00 2
M 2	11 2 2000	Regional		L Q	2		1 9	12 9	1	9	9	1 2 1	1 99 2
M	10 2 2000	Regional		L Q	9	9 1	1 0 0	1	1	0 2	0	1 212 2	1 9 9 9 9
M 9	2 2002	Regional		L Q	9 2	9 1	1 0	1	1	2		1 210 22	1 9 21
M 21	1 19	Regional		L Q	1 2	20	1 0 0	1	1	2 2	2 2	1	1 9 901
M	1999	Regional		L Q		0	21 0	19 2	20	2 1	2	1 99 9	1 9 9 9
M	10 20 2000	Regional		L Q	2	0 0	2 0	2 2	2	292	2 0	1 9	1 9 02 9
M 1	10 2002	Regional	E	L Q	92 2	9	199 0	1	192	09 2	00 2	1 211 99	1 02
M 99	0 2002	Regional	E	L Q	91	9	2 0	2 0	2 9	221	212	1 209	1 02 0
M 9	2 2002	Regional	C	L Q	0 2	2 1	0 0	10	20 1	19 9	10 1	1 9 1 2	1 022 9
M 9	22 2002	Regional	C	L Q		1	11 0	2	2 2	1	0 9	1 9 2 92	1 9 2 2
M 10	2 19 2009	Regional	C	L		0	2 0 0	19	20	2 0 0	2 0 0	1 1 9	1 02 99
M 0	11 199	Regional		L Q	2 9	0	221	20 1	21	22	09 1	1 99 9	1 9 12 9
M	10 12 1999	Regional		L Q	0	2	2 1	2 0	2 9	20	11 0	1 999 1	1 0000
M	10 1999	Regional		L Q			229	21	22	22	09	1 902	1 9 1 9
M 100	2 2002	Regional		L Q	1	20 2	12	299	09	19 1	09 1	1 9 10	1 00 91 2
M 22	2 19	Regional		L	1 0	1 09	2 0	2 9	2	2 0	2 1 2	1 0 1	1 01
M	22 199	Regional		L Q	9	9	2	2 0	2 1	0	20 2	1 2 19	1 019 0 2
M	199	Regional		L Q	2	1 2	2 0	2 2	2	29	2 0	1 2 0 2	1 99 0 19
M	2 199	Regional		L Q	1 1	1	2 2	21	2 0 1	29	2 0	1 2 10	1 01 9
M	1 199	Regional		L Q		0			2	11	292	1 0 09	1 0191 2
M 9	2 199	Regional		L Q	1 0	9		9 0		29	2 0 0	1 2 00 20	1 9 0 1
M 2	199	Regional		L Q	9	1	9 0	2		0	29 0	1 09 1	1 9 229 92
M	11 1 2000	Regional		L Q	29 2	1 2	2 0 0	2 9	2	2 9 9	2 0	1 1 9	1 00
M	9 2 1999	Regional		L Q	29	2 0	2 0	2	2	2 1 1	2 1 0	1 2 2	1 010 9 0
M 0	2 2 2001	Regional		L Q	2	0 1	2 0 0	2 9	2	2 9 2	2 9	1 29 99	1 01 09
M	12 1 2000	Regional		L Q	29	1	2 0 0	2 2	2	2 2	2 1	1 9 2	1 01 2 9
M	12 12 2000	Regional		L Q	9	0	2 2 0	2 0	2 9	2	2	1 91 90	1 01 1 2
M	11 21 2000	Regional		L Q	2	1	2 2	2 1	2 0	2	2	1 9	1 00 0 2
M	9 1 2001	Regional		L Q	1 1 2	1	2	229	2 9	2 1	2 2 2	1 0 0	1 01 0
M 9	11 12 2001	Regional		L Q	10	12 2	2 0	2 1	290	229 2	219 9	1 19	1 01 99
M 90	1 2002	Regional		L Q	00 2	02 22	00 0	2	2	2 2	22 2	1 00	1 0220 1
M 91	10 2 2001	Regional		L Q	29	2 02	1 0	2 9	2 9	2 0	2 0	1 2 9	1 0102 09
M	0 19	Regional		L Q		0	2 0	299	09	2	2	1 2 1	1 012 2
TC 1	2 19 2	Regional		L	2 9	2 1	0	2	0	299 9	2 9	1 9 2	1 022 9
1	221990	Regional		L		2 0		9		2 9	2 9	1 11 99	1 0190 9
	1990	Regional		L		1	0	9		2 9	2 9	1 0 2	1 01922

TABLE 1
SUMMARY OF CEDAR HILLS REGIONAL LANDFILL GROUNDWATER WELLS

ell um er	ate Constru ted	uifer	one[1]	urpose[2]	round urfa e Elevation	Top of ell Casing Elevation	Total ell epth	reened nterval epth		reened nterval Elevation		Coordinates orthing	Easting
M 0	9 19 9	er hed	E	L Q			0 0	2		2	2	1 2	1 01 2 9
M	1 19	er hed	E	L Q		0	0 0	2		10 1	90 1	1 1	1 01 9 9
M	2 19	er hed	E	L	9	9 9	0					1	1 019 1
M 0	19	er hed	E	L	2	02	9	2		0	9	1 02 1	1 01 92
M 2	2 1 1990	er hed	E	L Q		21				11	01	1 2 9	1 01 19 1
M	2 12 1990	er hed	E	L	1	1	22 0	12	1	01	9	1 2 0 2	1 01 2
M 102	1 2 2009	er hed	E	L	9	2	0		0	1 2	00 2	1 2 1	1 01
M 10	1 2 2009	er hed	E	L		9 0	0 00	2		11	01	1 0 99	1 02210
M 10	1 29 2009	er hed	E	L	2 9	29	00	22	2	0 9	9 9	1 11	1 021 9 1
M E	11 2 1990	er hed	E	L Q	9	9 1	0 0	20	0	9	9	1 1 2 2	1 020 9
M 2	10 19	er hed		L Q	2	2	0 0	9	9	2 2	1 2	1 9 1 29	1 9 0 2
M 2	21 19	er hed		L Q	2 2	2	9 0	2		99 2	9 2	1 2 1	1 999 20
M 29	2 19	er hed		L Q	1	2 92	0 0	1	2	1	0	1 2 2	1 0092 9
M	10 2 19	er hed		L Q	1 1	2 29	0			1	0	1 2	1 9 110 11
M 9	9 2001	er hed		L	01	0	22	10	20	90 9	1	1 10	1 992
M 2	19	er hed		L	2	1	0 0	1		2	2	1 0 9	1 99 0 1
M 1	12 19	er hed		L	0	2	1 0		1	2	2	1 1 1	1 00100 2
M 1	12 19	er hed		L	0	2 2	1 0	0	0	0	10	1 1 1 1	1 00100 2
M	1 19	er hed		L		0	0	1	1			1 90 2	1 990 0
M 9	11 1999	er hed		L	9	9 1	0	0	0	1	0 9	1 1 91	1 99 9
M 9	12 1 2001	er hed		L			102 9		9		9	1	1 99
M 9	9 2001	er hed		L	2		12	101	110	1	2	1 0	1 00 9
M 101	2 200	er hed		L Q	2 1	2	0			2 1	1 1	1 91 0	1 99
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[1] osition of the ell s reen in the regional a uifer flo path anal sis relative to aste pla ement and site utilities

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pgradient orth est
E pgradient ortheast
C Cross radient
estside o ngradient
erti al e a ilities
nterior
o ngradient of orth End a ilities outside Refuse Cells
o ngradient round ater lo

[2] L ater Level Q ater Qualit

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 3rd QUARTER 2012

Well ID	Zone	Date	Planned Acitvity	Sample ID	Comment
M□ □21	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □21	Regional	□□1□12	□round□ater□□ampling	□21□120□□1□	
M□ □22	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □2□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □2□	Regional	□1□□12	□round□ater□□ampling	□2□□120□1□□	
M□ □2□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □2□□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □2□□	□er□hed	□1□□12	□round□ater□□ampling	□2□□120□1□□	
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M□ □29	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □29	□er□hed	□1□□12	□round□ater□□ampling	□29□120□1□□	
M□ □□0□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□0□	□er□hed	□□□12	□round□ater□□ampling	□□0□120□0□□	
M□ □□1□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□1□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□□□12	□round□ater□□ampling	□□□120□0□□	
M□ □□□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
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M□ □□□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□0	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
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M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□□12	□round□ater□□ampling	□□□120□1□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□9□12	□round□ater□□ampling	□□□120□09□	
M□ □□□	Regional	□9□12	Q□□QC□□ample	□□□120□09□	□ield□□upli□ate
M□ □□□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□□	Regional	□10□12	□round□ater□□ampling	□□□120□10□	
M□ □□9	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□9	Regional	□□□12	□round□ater□□ampling	□□9□120□0□□	
M□ □□0	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□0	Regional	□2□□12	□round□ater□□ampling	□□0□120□2□□	
M□ □□2	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□2	□er□hed	□□	□round□ater□□ampling	□□	□o□□ample□Lo□□□ ater□Level
M□ □□□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□19□12	□round□ater□□ampling	□□□120□19□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□□12	□round□ater□□ampling	□□□120□1□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□□12	□round□ater□□ampling	□□□120□1□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□□12	□round□ater□□ampling	□□□120□2□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□□12	□round□ater□□ampling	□□□120□2□□	
M□ □□9	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□9	Regional	□□	□round□ater□□ampling	□□	□o□□ample□□□ro□en□□ump
M□ □□0	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□0	Regional	□1□□12	□round□ater□□ampling	□□0□120□1□□	
M□ □□2	Regional	□2□12	□round□ater□Elevation□Measurement	□□	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 3rd QUARTER 2012

Well ID	Zone	Date	Planned Acitvity	Sample ID	Comment
M□ □□2	Regional	□2□12	□round□ater□□ampling	□ □2□120□2□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□□ampling	□ □□□120□2□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□□ampling	□ □□R120□2□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□R120□1□□	
M□ □□□	Regional	9□21□12	□round□ater□□ampling	□ □□R120921□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□□ampling	□ □□□120□2□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□□120□1□□	
M□ □□□	Regional	9□21□12	□round□ater□□ampling	□ □□□120921□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□□120□1□□	
M□ □□□	Regional	□□0□12	□round□ater□□ampling	□ □□□120□□0□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□□□0□12	□round□ater□□ampling	□ □□□120□□0□	
M□ □□□	Regional	□□□0□12	Q□□QC□□ample	□ □□□120□□0□	□ield□□upli□ate
M□ □□9	□er□hed	□9□12	□round□ater□Elevation□Measurement	□□	
M□ □□0	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□0	Regional	□1□12	□round□ater□□ampling	□ □0□120□1□□	
M□ □□1	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□1	Regional	□1□12	□round□ater□□ampling	□ □1□120□1□□	
M□ □□2	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□2	Regional	□□□12	□round□ater□□ampling	□ □2□120□0□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□□120□1□□	
M□ □□□	Regional	□1□12	Q□□QC□□ample	□ □□□120□1□□	□ield□□upli□ate
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□□120□1□□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□12	□round□ater□□ampling	□ □□□120□2□□	
M□ □□□	Regional	□2□12	Q□□QC□□ample	□ □□□120□2□□	□ield□□upli□ate
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□1□12	□round□ater□□ampling	□ □□□120□□0□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□20□12	□round□ater□□ampling	□ □□□120□20□	
M□ □□□	Regional	□20□12	□round□ater□□ampling	□ □□□120□20□	
M□ □□□	Regional	9□21□12	□round□ater□□ampling	□ □□□120921□	
M□ □□□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□□	Regional	□2□□12	□round□ater□□ampling	□ □□□120□2□□	
M□ □□9	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □□9	Regional	□1□12	□round□ater□□ampling	□ □9□120□1□□	
M□ □90	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □90	Regional	□1□12	□round□ater□□ampling	□ 90□120□1□□	
M□ □91	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □91	Regional	□1□12	□round□ater□□ampling	□ 91□120□1□□	
M□ □9□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □9□	Regional	□19□12	□round□ater□□ampling	□ 9□□120□19	
M□ □9□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □9□	Regional	□19□12	□round□ater□□ampling	□ 9□□120□19□	
M□ □9□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □9□	Regional	□2□□12	□round□ater□□ampling	□ 9□□120□2□□	
M□ □9□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □9□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 3rd QUARTER 2012

Well ID	Zone	Date	Planned Acitvity	Sample ID	Comment
M□ □9□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □99	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □99	Regional	□20□12	□round□ater□□ampling	□ 99□120□20□	
M□ □99	Regional	□20□12	□round□ater□□ampling	□ 99□120□20□	
M□ □99	Regional	9□21□12	□round□ater□□ampling	□ 99□120921□	
M□ □100	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □100	Regional	□2□□12	□round□ater□□ampling	□ 100120□2□□	
M□ □101	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □101	□er□hed	□2□□12	□round□ater□□ampling	□ 101120□2□□	
M□ □102	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □10□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □10□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □10□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □10□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □E□□	□er□hed	□2□12	□round□ater□Elevation□Measurement	□□	
M□ □E□□	□er□hed	□1□□12	□round□ater□□ampling	□ □□□120□1□□	
□ □□□□□□ □1	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
□ □□□□□□ □□	Regional	□2□12	□round□ater□Elevation□Measurement	□□	
E□uipment□□lan□	□□	□1□□12	Q□□QC□□ample	□ □1H120□1□E	
E□uipment□□lan□	□□	□1□□12	Q□□QC□□ample	□ □1□120□1□E	
E□uipment□□lan□	□□	□1□□12	Q□□QC□□ample	□ □1M120□1□E	
□ield□□lan□	□□	□1□□12	Q□□QC□□ample	□ □□□120□1□□	
□ield□□lan□	□□	□2□□12	Q□□QC□□ample	□ 100120□2□□	
□ield□□lan□	□□	□1□□12	Q□□QC□□ample	□ □□R120□1□□	
□ □□□□□	Regional	□9□12	□ ater□□uppl□□Chara□tei□ation	□ □□□ 120□09□	

□□ □□□□□o□sample□□□ assigned□□□o□sample□□olle□ted□

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 July 1, 2012 to September 30, 2012)

arameter	nits	ell	ample ate	ample	ample alue
Upgradient Wells					
pH field	pH units	M	1 2012	120 1	
		M	0 2012	120 0	
rseni	mg L	M	19 2012	120 19	0 001
		M 9	19 2012	9 120 19	0 001
		M 99	19 2012	99 120 19	0 002
ron	mg L	M 21	1 2012	21 120 1	1
		M 2	1 2012	2 120 1	
		M	9 2012	120 09	10
		M	10 2012	120 10	1 0
		M 9	2012	9 120 0	
		M	19 2012	120 19	0 9
		M	1 2012	120 1	
		M 100	2 2012	100120 2	1
Manganese	mg L	M 21	1 2012	21 120 1	0 0 1
		M 2	1 2012	2 120 1	0 10
		M	1 2012	120 1	0 0 2
		M	1 2012	120 1	0 29
		M	10 2012	120 10	0 9
		M 9	2012	9 120 0	0 109
		M	19 2012	120 19	0 2
		M	1 2012	120 1	0 1 9
		M 9	19 2012	9 120 19	0 2 2
		M 9	2 2012	9 120 2	0 1
		M 99	19 2012	99 120 19	0 0 01
		M 100	2 2012	100120 2	0 222
Tri hloroethene	g L	M	1 2012	120 1	
		M 2	2012	2 120 0	1
in 1 Chloride	g L	M	1 2012	120 1	0 0

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 July 1, 2012 to September 30, 2012)

Parameter	Units	Well Location	Sample Date	Sample Time	Sample Value
Downgradient Wells					
Arsenic	mg/L	MW-30	7/11/2012	10:12:07	0.00422
		MW-31	7/12/2012	12:07:22	0.00111
		MW-32	7/11/2012	12:07:12	0.0012
		MW-33	7/11/2012	12:07:01	0.001 U
Iron	mg/L	MW-30	7/11/2012	10:12:07	0.0 U
		MW-31	7/12/2012	12:07:22	0.0 U
		MW-72	7/12/2012	12:07:22	2.1
		MW-73	7/12/2012	12:07:22	1.0 U
		MW-30	7/11/2012	10:12:07	1.0 U
		MW-32	7/11/2012	12:07:12	0.0 U
		MW-33	7/11/2012	12:07:01	1.1
Manganese	mg/L	MW-30	7/11/2012	10:12:07	0.21
		MW-31	7/12/2012	12:07:22	0.022
		MW-32	7/11/2012	12:07:12	0.20
		MW-72	7/12/2012	12:07:22	0.27
		MW-73	7/12/2012	12:07:22	0.12
		MW-30	7/11/2012	10:12:07	0.21
		MW-32	7/11/2012	12:07:12	0.0 U
		MW-33	7/11/2012	12:07:01	0.27

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

□ata □olle□ted from □ul □1 □2012 □eptem□er □0 □2012

			Upgradient South																			
Site ID			**MW-56**			**MW-57**			**MW-76**			**MW-83**			**MW-60**			**MW-94**				
			7□1□□12			7□□□12			7□17□12			7□17□12			7□2□□12			7□1□□12				
Cations	M□	n	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□		
Cal□ium	□0□1	2	1□□□	0□7□□□7	□0□□	17□1	0□□□□2□	□□□□	1□□□	0□77□□□	□□□□	2□7	1□□□20□	□2□1	17□□	0□□□□27	□7□0	27□□	1□□□222	□0□□		
Magnesium	2□□□	2	□□1	0□□□7□□	□□□1	□□□	0□□1□□□	□□□□	□7	0□□□□□	□□□□	12□2	1□00□□1	□□□□	□□□	0□□□□□□	□7□□	12□□	1□0121□	□□□□		
□otassium	□□□1	1	1□0	0□02□0□	1□7	1□0	0□02□□□	1□0	1□2	0□0□01□	1□□	2□1	0□0□□□7	1□□	1□1	0□02□□□	1□□	2□1	0□0□22	2□0		
□odium	2□□0	1	□□□	0□21□□7	1□2	□7	0□2□01□	12□□	7□0	0□□0□□2	1□□□	7□0	0□□0□7□	10□7	□7	0□2□□□7	1□□□	7□0	0□□0□7□	11□1		
□ron	□□□□	2	0□01	0□000□□	0□0	10□00	0□□□□12	1□2	0□01	0□000□□	0□0	0□01	0□000□□	0□0	0□02	0□000□□	0□0	0□01	0□000□□	0□0		
Manganese	□□□□	2	0□07	0□002□□	0□2	0□□0	0□0107□	0□□	0□00	□□□E□0□	0□0	0□00	□□1E□0□	0□0	0□00	□□□E□0□	0□0	0□00	□□□E□0□	0□0		
□mmonia□□	1□□0	1	0□01	0□00071	0□0	0□0□	0□002□□	0□1	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0		
Total Cations (meq/L)				**1.5**			**2.4**			**1.7**			**2.8**			**1.8**			**2.8**			
□nions																						
□l□alinit□□Total			□□			□7			□□			107			□□			10□				
□□□Car□onate	□0□0	2	0□0□□□	0□001□□	0□1	0□021□	0□0007□	0□0	0□00□1	0□000□	0□0	0□0□□□	0□001□□	0□1	0□0□7□	0□001□2	0□1	0□0□2□	0□0017□	0□1		
□□□□i□ar□onate	□1□0	1	□□□21	1□0□2□1	□□□□	10□□10	1□7□□01	7□□7	□□□7□	1□127□□	□□□□	1□0□□□	2□1□□01	71□□	10□□1□	1□707□2	□□□□	1□1□□□	2□1□7□2	7□□7		
Chloride	□□□□	1	□□□2	0□110□7	7□0	□□□2	0□1□00□	□□□	11□□0	0□□1□7□	1□□0	20□70	0□□□□□7	1□□□	2□□1	0□070□	□□□	1□□□0	0□□□2□□	1□□□		
□itrate□□	1□□0	1	0□□□	0□02□□□	1□□	0□01	0□00071	0□0	0□□□	0□02□□□	1□□	0□□□	0□0□2□□	1□1	1□2□	0□0□2□	□□□	1□1□	0□0□2□	2□□		
□ulfate	□□□1	2	1□□□	0□□□727	2□□□	1□□1	0□□7□□□	1□□□	1□□□	0□□01□	17□0	11□□0	0□2□7□□	7□□	7□□□	0□1□□□7	7□□	□2□	0□1□0□□	□□□		
Total Anions (meq/L)				**1.6**			**2.3**			**1.8**			**3.0**			**2.0**			**2.9**			
Total Ions (meq/L)				**3.1**			**4.6**			**3.4**			**5.8**			**3.9**			**5.7**			
Cation/Anion Ratio				**0.95**			**1.04**			**0.94**			**0.95**			**0.91**			**0.94**			
Percent Difference				**-2.3**			**1.9**			**-3.3**			**-2.5**			**-4.9**			**-2.8**			
Trilinear Diagram Data																						
sum□Ca□Mg□□a□□□				1□□0			1□□□			1□□□			2□□□			1□□□			2□7□			
Cal□ium					□0□□0			□□□0□			□□□□□			□2□0□			□7□0□			□0□□□		
Magnesium					□□□1□			□1□0□			□□□□1			□□2□			□7□□□			□□□□1		
□odium□□□otassium					1□□□1			1□□□7			20□1□			12□□			1□□0□			1□02		
sum□□□□□Cl□HC□□C□□				1□□□			2□27			1□7□			2□□□			1□□□			2□□□			
□ulfate					2□□□□□			1□□□2□			17□2□7			□01□			7□□□□			□□□□		
Chloride					7□12□			□□□20			1□□22□			1□□71□			□□□□0			1□□□□7		
□i□ar□onate□□Car□onate					□7□□1□			7□□7□□			□□□□0□			72□2□□			□□□□□□			7□□□□□		

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

□ata □olle□ted from□ul □1 □2012 □eptem□er □0 □2012

			Upgradient South											
Site ID			**MW-82**			**MW-65**			**MW-58A**			**MW-59**			**MW-24**		
			7□□□12			7□17□12			7□10□12			7□□□12			7□1 □12		
Cations	M□	n	mg□L	me□L	□ □me□□	mg□L	me□L	□ □me□□	mg□L	me□L	□ □me□□	mg□L	me□L	□ □me□□	mg□L	me□L	□ □me□□
Cal□ium	□0□1	2	2□□□	1□212□7	□□□□	11□□	0□□□□□1	□7□7	1□□□	0□□1□□□	□□□□	1□□1	0□□□□□□	□7□2	1□□□	0□□□□7	□7□7
Magnesium	2□□□	2	1□□□	1□22□0□	□□□□	□□□	0□□□12	□□7	□0	0□7□1□1	□□2	□□□	0□□□2□□	□□□□	□7	0□7117□	□0□□
□otassium	□□□1	1	1□□	0□0□□7□	1□□	0□□	0□02□0□	1□□	1□0	0□02□□□	1□□	1□0	0□02□□□	1□□	0□□	0□0227□	1□□
□odium	2□□0	1	7□2	0□□127□	11□2	□□1	0□22□1□	1□□2	□7	0□2□7□□	1□□1	□□□	0□2□□□□	1□□□	□□□	0□2□70□	1□□□
□ron	□□□□	2	0□01	0□000□□	0□0	□□□□	0□1□□02	10□□	1□0□	0□0□72□	2□0	□2□	0□1□22	□7	□□□0	0□11□1□	□7
Manganese	□□□□	2	0□00	□□E□0□	0□0	0□1□	0□00□□2	0□□	0□□7	0□01□□□	0□7	0□11	0□00□□7	0□2	0□11	0□00□□2	0□2
□mmonia□□	1□□0	1	0□01	0□00071	0□0	0□01	0□00071	0□0	0□07	0□00□□□	0□□	0□01	0□000□□	0□1	0□0□	0□002□□	0□2
Total Cations (meq/L)				**2.8**			**1.6**			**1.9**			**1.8**			**1.8**	
□nions																	
□l□alinit□□Total			122			□□			7□			□2			□□		
□□□Car□onate	□0□0	2	0□0□□□	0□001□□	0□1	0□0□□	0□00117	0□1	0□1017	0□00□□□	0□2	0□0□□□	0□001□□	0□1	0□0□□□	0□001□2	0□1
□□□□i□ar□onate	□1□0	1	1□□□7□	2□□□77□	□0□□	□□□71	1□0□□7	□□□7	□2□1□	1□□10□□	77□□	7□□□□	1□22□□□	71□□	7□□□□	1□2□□2□	7□□7
Chloride	□□□□	1	□□□0	0□1□0□2	□0	□2□	0□11□□□	7□7	□71	0□10□□□	□□□	□□□1	0□1102□	□□□	□□2	0□0□□□7	□□□
□itrate□□	1□□0	1	0□□2	0□0□□1□	1□□	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0
□ulfate	□□□1	2	17□70	0□□□□□□	12□2	17□□0	0□□□22□	2□□□	1□□70	0□□2□□□	1□□□	1□□00	0□□7□7□	21□□	1□□20	0□□□7□	1□□□
Total Anions (meq/L)				**3.0**			**1.5**			**1.9**			**1.7**			**1.7**	
Total Ions (meq/L)				**5.8**			**3.1**			**3.8**			**3.5**			**3.5**	
Cation/Anion Ratio				**0.92**			**1.02**			**0.97**			**1.02**			**1.02**	
Percent Difference				**-4.0**			**0.9**			**-1.5**			**1.2**			**1.1**	
Trilinear Diagram Data																	
sum□□Ca□Mg□□□a□□□				2□□0			1□□0			1□□□			1□□0			1□□□	
Cal□ium					□□□□7			□2□□□			□□□□□			□0□□□			□0□□□
Magnesium					□□□□□			□0□02			□0□□□			□2□70			□□□□□
□odium□□□□otassium					12□7□			17□□□			1□□□□			1□□□□			1□□□□
sum□□□□□Cl□HC□□C□□				2□□□			1□□□			1□□□			1□71			1□72	
□ulfate					12□□□1			2□□□□□			1□□□0□			21□□□□			1□□□□2
Chloride					□0□0			7□7□7			□□□7□			□□□□1			□□□0□
□i□ar□onate□□Car□onate					□1□□2□			□□□7□□			77□□17			71□71□			7□□□0□

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

□ata □olle□ted from□ul□ 1□ 2012 □eptem□er 0□ 2012

			Upgradient Northwest								Upgradient Northeast					
Site ID			**MW-84**			**MW-21**			**MW-73**			**MW-81**			**MW-99**		
			7□1□12			7□□1□12			7□2□12			7□17□12			7□20□12		
Cations	M□	n	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□
□al□ium	□0□1	2	10□□	0□□1 □□□	□□□1	10□2	0□□0 □□□	□□□0	11□□	0□□□□□1	□□□□	10□7	0□□□□□□	□□2	□□□	0□□2 □□□	□□□□
Magnesium	2□□□	2	7□□	0□□□7 □	□□0	□□□	0□□□0 □1	□□□□	□2	0□□11 □□	□7□□	□□□	0□□□2 □□	□□□□	□0	0□□□1 □2	27□□
□otassium	□□□1	1	1□0	0□02 □□□	1□7	1□0	0□02 □27	1□□	0□□	0□0201 □	1□□	0□7	0□01 □72	1□□	0□□	0□0210 □	1□□
□odium	2□□0	1	□7	0□2 □□7 □	17□1	□□□	0□2 □□02	1□7	□□□	0□2 □22 □	17□7	□□□	0□2 □0 □□	1□□□	□□□	0□□0 □27	□□□1
□ron	□□□□	2	0□01	0□000 □□	0□0	1□7 □	0□0 □□7 □	□□□	0□01	0□000 □□	0□0	0□01	0□000 □□	0□0	0□0 □	0□001 □□	0□1
Manganese	□□□□	2	0□00	□□□E□0 □	0□0	0□07	0□002 □	0□2	0□00	□□□E□0 □	0□0	0□00	□□□E□0 □	0□0	0□0 □	0□0021 □	0□2
□mmonia □□	1□□0	1	0□01	0□00071	0□0	0□01	0□00071	0□1	0□01	0□00071	0□1	0□01	0□00071	0□1	0□0 □	0□00 □□□	0□□
Total Cations (meq/L)				**1.4**			**1.3**			**1.4**			**1.2**			**1.2**	
□nions																	
□l□alinit□□Total			□7			□□			□□			□1			□2		
□□□Car□onate	□0□0	2	0□02 □□	0□001	0□1	0□12 □7	0□00□1 □	0□□	0□0 □□□	0□001 □□	0□1	0□0 □□□	0□0011 □	0□1	0□21 □□	0□00712	0□□
□□□□i□ar□onate	□1□0	1	□□□72	1□1□2 □□	7□□2	□□□0 □	1□0 □□□□	□□□□	□□□□□	1□07 □21	72□7	□1 □□□	1□00 □□□	7□□1	□2 □□□	1□02 □72	7□□□
Chloride	□□□□	1	□□□□	0□10 □□□	7□1	2□□□	0□07 □□2	□□□	□□11	0□0 □772	□□□	□2 □	0□0 □111	□□□	□1 □	0□0 □□1 □	□□□
□itrate □□	1□□0	1	0□□0	0□02 □□□	1□□	0□01	0□00071	0□1	1□7 □	0□12 □22	□□□	1□□2	0□10 □□2	7□□	0□0 □	0□001 □□	0□1
□ulfate	□□□1	2	11□□0	0□2 □□□□	1□□□	□0 □	0□10 □77	□□□	□1 □	0□1 □0 □1	12□□	□1 □	0□1 □□□□	12□□	7□□□	0□1 □011	12□□
Total Anions (meq/L)				**1.5**			**1.2**			**1.5**			**1.4**			**1.3**	
Total Ions (meq/L)				**3.0**			**2.5**			**2.8**			**2.6**			**2.5**	
Cation/Anion Ratio				**0.95**			**1.05**			**0.93**			**0.90**			**0.93**	
Percent Difference				**-2.8**			**2.6**			**-3.8**			**-5.4**			**-3.8**	
Trilinear Diagram Data																	
sum□Ca□Mg□□a□□□				1□□□			1□2 □			1□□7			1□2 □			1□1 □	
Cal□ium					□□□11			□1 □0 □			□□□□0			□□21			□□□□2
Magnesium					□□□0 □			□7 □1 □			□7 □□1			□□□□2			2□□0 □
□odium□□□otassium					1□□□□			21□7 □			1□□1 □			20□17			□□□1 □
					100□0			100□0			100□0						
sum□□□□ □Cl□HC□ □C□ □				1□□□			1□2 □			1□□□			1□27			1□2 □	
□ulfate					1□0□0			□□□□□			1□0□□			1□□□□□			12□□7 □
Chloride					7□27 □			□□□□0			□□□7 □			7□170			□□□□7
□i□ar□onate□□Car□onate					7□□□71			□□02 □			7□□□□2			7□□□7 □			□0□□7 □

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

□ata□Colle□ted□from□ul□1□2012□□eptem□er□0□2012

			Cross Gradient						Interior											
Site ID			**MW-93**			**MW-95**			**MW-70**			**MW-77**			**MW-78**			**MW-100**		
			7□1□12			7□27□12			7□1□12			□□□0□12			□□□0□12			7□27□12		
Cations	M□	n	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□	mg□L	me□L	□□me□□
Cal□ium	□0□1	2	□□□□	1□771□□	□7□□	1□□□	0□□2□1□	□□□0	1□□□	0□□□□□2	□2□□	22□□	1□1277□	□□□□	1□□1	0□7□□□□	□□□□	2□□□	1□2□2□2	□1□□
Magnesium	2□□□	2	17□□	1□□72□□	□□□□	10□2	0□□□□□□	□1□0	10□0	0□□22□□	□1□7	11□□	0□□□□0□	□□□7	□□□	0□□□202	□□□□	1□7	1□2□1□2	□1□□
□otassium	□□□1	1	1□□	0□0□□□	1□1	1□1	0□02□□□	1□□	1□□	0□0□□□7	1□□	1□□	0□0□7□□	1□□	2□1	0□0□□□□	□□□	1□□	0□0□7□2	1□□
□odium	2□□0	1	□□1	0□□□□7	10□7	□□□	0□2□0□□	12□2	□□□	0□27□□7	1□□□	7□□	0□□1□□□	1□□1	□□□	0□2□□□□	1□□7	□□1	0□□□□7	12□□
□ron	□□□□	2	0□01	0□000□□	0□0	0□01	0□000□□	0□0	0□01	0□000□□	0□0	0□01	0□000□□	0□0	0□01	0□000□□	0□0	1□□□	0□0□7□	1□□
Manganese	□□□□	2	0□2□	0□00□17	0□2	0□1□	0□00□7□	0□2	0□00	□□□E□0□	0□0	0□02	0□000□□	0□0	0□00	□□□E□0□	0□0	0□22	0□00□0□	0□□
□mmonia□□	1□□0	1	0□07	0□00□7□	0□1	0□0□	0□0022□	0□1	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0
Total Cations (meq/L)				**3.7**			**2.0**			**2.0**			**2.4**			**1.6**			**3.1**	
□nions																				
□l□alinit□□Total			112			□□			□0			10□			□□			1□2		
□□□Car□onate	□0□0	2	0□111□	0□00□72	0□1	0□101□	0□00□□□	0□2	0□0□□2	0□00□21	0□2	0□0□7□	0□001□□	0□1	0□00□□	0□000□1	0□0	0□0□01	0□001□7	0□1
□□□□i□ar□onate	□1□0	1	1□□□□1	2□2□□□□	□□□□	10□□□□	1□□□□□□	7□□□	□7□77	1□□02□□	77□□	1□2□□□	2□17□0□	□□□1	□□□1□	1□□7□□□	7□□1	1□0□□□	2□□□7□□	□□□□
Chloride	□□□□	1	2□7□	0□077□□	2□0	□0□	0□1□2□□	□□□	□7□	0□10□21	□1	□□□□	0□1□70□	□□□	□□□□	0□1□201	7□□	2□□□	0□0□□□7	2□1
□itrate□□	1□□0	1	0□02	0□00107	0□0	0□01	0□00071	0□0	0□0□	0□002□□	0□1	0□□□	0□0□2□7	2□□	0□□□	0□0□□□7	□□□	0□01	0□00071	0□0
□ulfate	□□□1	2	77□□0	1□□1□7	□1□1	1□□□0	0□□2□□1	1□□0	17□10	0□□□□0□	17□2	□□□1	0□17□27	7□0	7□□□	0□1□□□2	□□□	1□□70	0□□1017	1□□2
Total Anions (meq/L)				**3.9**			**2.2**			**2.1**			**2.6**			**1.7**			**3.1**	
Total Ions (meq/L)				**7.6**			**4.2**			**4.0**			**5.0**			**3.4**			**6.2**	
Cation/Anion Ratio				**0.94**			**0.95**			**0.95**			**0.95**			**0.93**			**0.99**	
Percent Difference				**-3.1**			**-2.8**			**-2.4**			**-2.7**			**-3.5**			**-0.4**	
Trilinear Diagram Data																				
sum□Ca□Mg□□a□□□				□□□□			2□0□			1□□7			2□□2			1□□2			□0□	
Cal□ium					□□□12			□□□21			□2□□1			□□□□7			□□□□□			□2□□□
Magnesium					□0□01			□1□10			□1□72			□□7□			□□□□0			□2□□□
□odium□□□otassium					11□□□			1□□□□			1□□77			1□□□□			1□01			1□□□□
sum□□□□□Cl□HC□□C□□				□□□□			2□17			2□07			2□□0			1□□□			□12	
□ulfate					□1□07□			1□□□□□			17□22□			7□1□2			□□□□7			1□□1□2
Chloride					1□□7□			□□□7□			□0□0			□□□□2			7□□71			2□1□□
□i□ar□onate□□Car□onate					□□□□□2			7□□□□□			77□□□□			□7□□2□			□2□272			□□□702

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

□ata □olle□ted from□ul □1 □2012 □eptem□er □0 □2012

			Vertical to Facilites										Downgradient Northwest				
Site ID			**MW-64**			**MW-66**			**MW-68**			**MW-67**			**MW-72**			**MW-69**
			7□1 □12			7□1 □12			7□2 □12			7□2 □2012			7□2 □2012			□o □ample
Cations	M□	n	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□
Cal□ium	□0□1	2	17□□	0□□□□2□	□□□□	21□2	1□0□7□□	□7□□	2□□0	1□2□7□1	□□□□	27□7	1□□□22□	□□□□	2□□2	1□2□7□□	□2□2			
Magnesium	2□□□	2	1□□□	1□201□	□□□2	1□□□	1□□□□□2	□□□□	1□□1	1□2□2□□	□1□7	1□□□	1□□□77□	□□□0	1□□□	1□2□□□□	□□□1			
□otassium	□□□1	1	1□□	0□0□□□□	1□□	1□□	0□0□2□□	1□2	1□□	0□0□01□	1□□	1□□	0□0□7□□	1□2	1□7	0□0□2□□	1□□			
□odium	2□□0	1	□□□	0□2□□7	12□1	□□0	0□□□□2□	12□□	□□1	0□□□□2	11□□	□□□	0□□□□2□	11□7	7□1	0□□07□□	10□□			
□ron	□□□□	2	0□□□	0□0210□	0□□	0□01	0□000□□	0□0	0□□□	0□0□□□	1□2	0□0□	0□002□□	0□1	2□1□	0□077	2□□			
Manganese	□□□□	2	0□□□	0□01□□1	0□□	0□00	□□E□0	0□0	0□21	0□007□7	0□□	0□0□	0□00□□□	0□1	0□2□	0□01001	0□□			
□mmonia□□	1□□0	1	0□0□	0□001□2	0□1	0□01	0□00071	0□0	0□02	0□0011□	0□0	0□01	0□00071	0□0	0□02	0□001□□	0□0			
Total Cations (meq/L)				**2.4**			**2.8**			**3.0**			**3.2**			**3.0**				
□nions																				
□l□alinit□□Total			□0			11□			1□□			117			11□					
□□□Car□onate	□0□0	2	0□0□□□	0□001□□	0□1	0□0□□7	0□00212	0□1	0□0□□□	0□002□2	0□1	0□0□12	0□0020□	0□1	0□0□2□	0□00□0□	0□1			
□□□□i□ar□onate	□1□0	1	110□0□	1□□0□□□	70□□	1□□□0□	2□□77□2	□0□□	1□2□12	2□□□72□	□□□□	1□2□□2	2□□□7□1	70□□	1□□□□□	2□27□□□	7□□1			
Chloride	□□□□	1	2□□□	0□0□□□□	□□□	7□□□	0□207□2	7□1	2□□7	0□0□0□□	2□□	□□□2	0□1□□7□	□2	□71	0□10□□□	□□□			
□itrate□□	1□□0	1	0□0□	0□0017□	0□1	0□□□	0□0□□12	1□□	0□01	0□00071	0□0	0□□2	0□0□727	1□1	0□01	0□00071	0□0			
□ulfate	□□□1	2	□2□10	0□□□□□□	2□□1	1□□□0	0□□0□□□	10□□	1□□70	0□□□□□□	12□□	□□□□0	0□□07□□	2□□□	□□00	0□□□70□	22□□			
Total Anions (meq/L)				**2.6**			**2.9**			**3.1**			**3.3**			**3.1**				
Total Ions (meq/L)				**5.0**			**5.7**			**6.1**			**6.5**			**6.1**				
Cation/Anion Ratio				**0.95**			**0.95**			**0.95**			**0.95**			**0.97**				
Percent Difference				**-2.3**			**-2.6**			**-2.5**			**-2.6**			**-1.5**				
Trilinear Diagram Data																				
sum□Ca□Mg□□a□□□				2□□0			2□7□			2□□□			□1□			2□□□				
Cal□ium					□□□11			□7□□□			□□2□			□□□□2			□□□□□			
Magnesium					□□□□7			□□□□□			□2□□			□□□1□			□□□□□			
□odium□□□otassium					1□□□2			1□□□1			1□□□1			12□□			12□12			
sum□□□□□Cl□HC□□C□□				2□□□			2□□□			□1□			□2□			□07				
□ulfate					2□□12□			10□□1□			12□□□0			2□□□□□			22□□71			
Chloride					□2□□			7□171			2□□□□			□22□			□□07			
□i□ar□onate□□Car□onate					70□□□0			□2□□1□			□□□□7□			71□1□□			7□222			

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

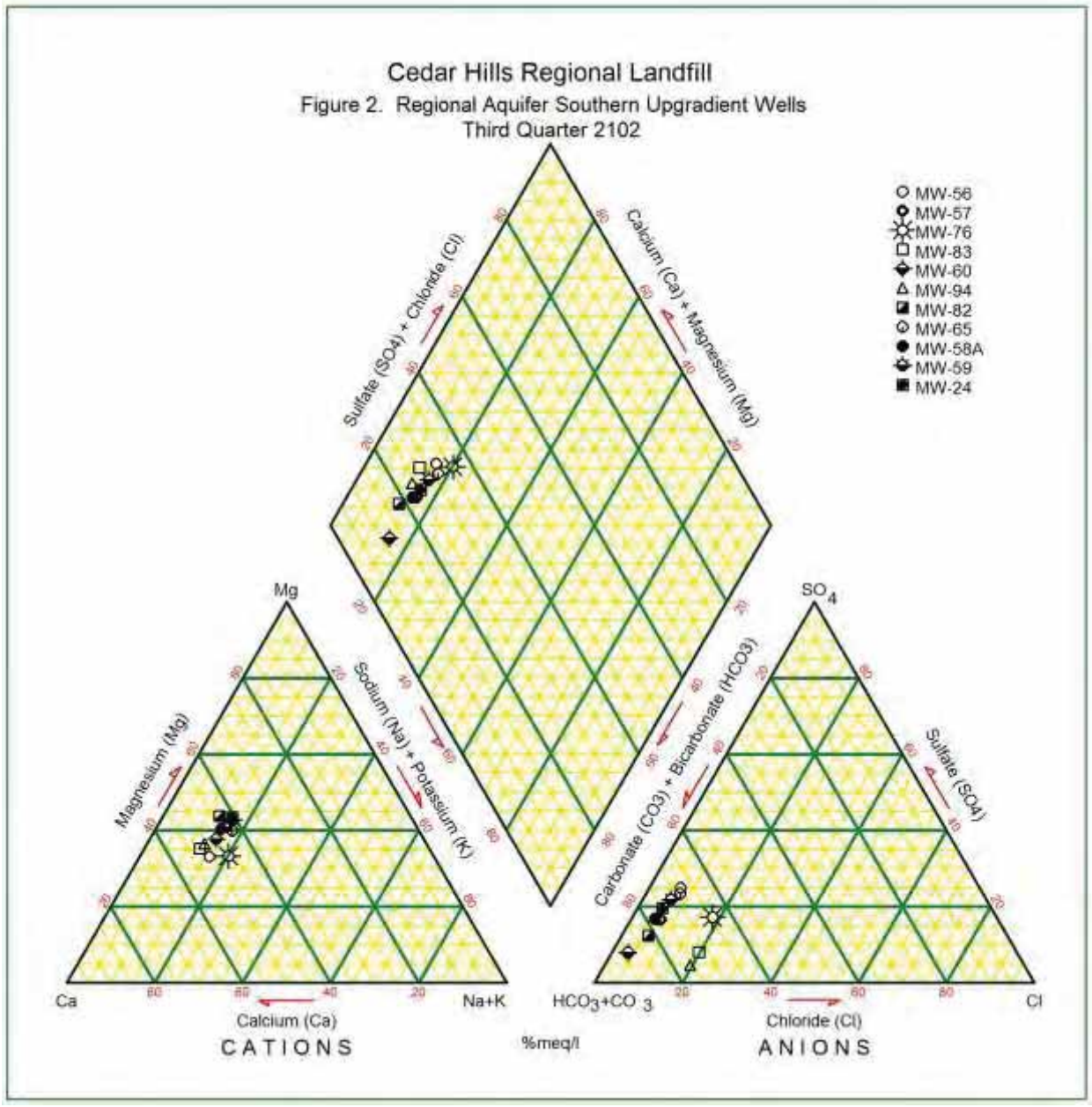
□ata□Colle□ted□from□ul□1□2012□□eptem□er□0□2012

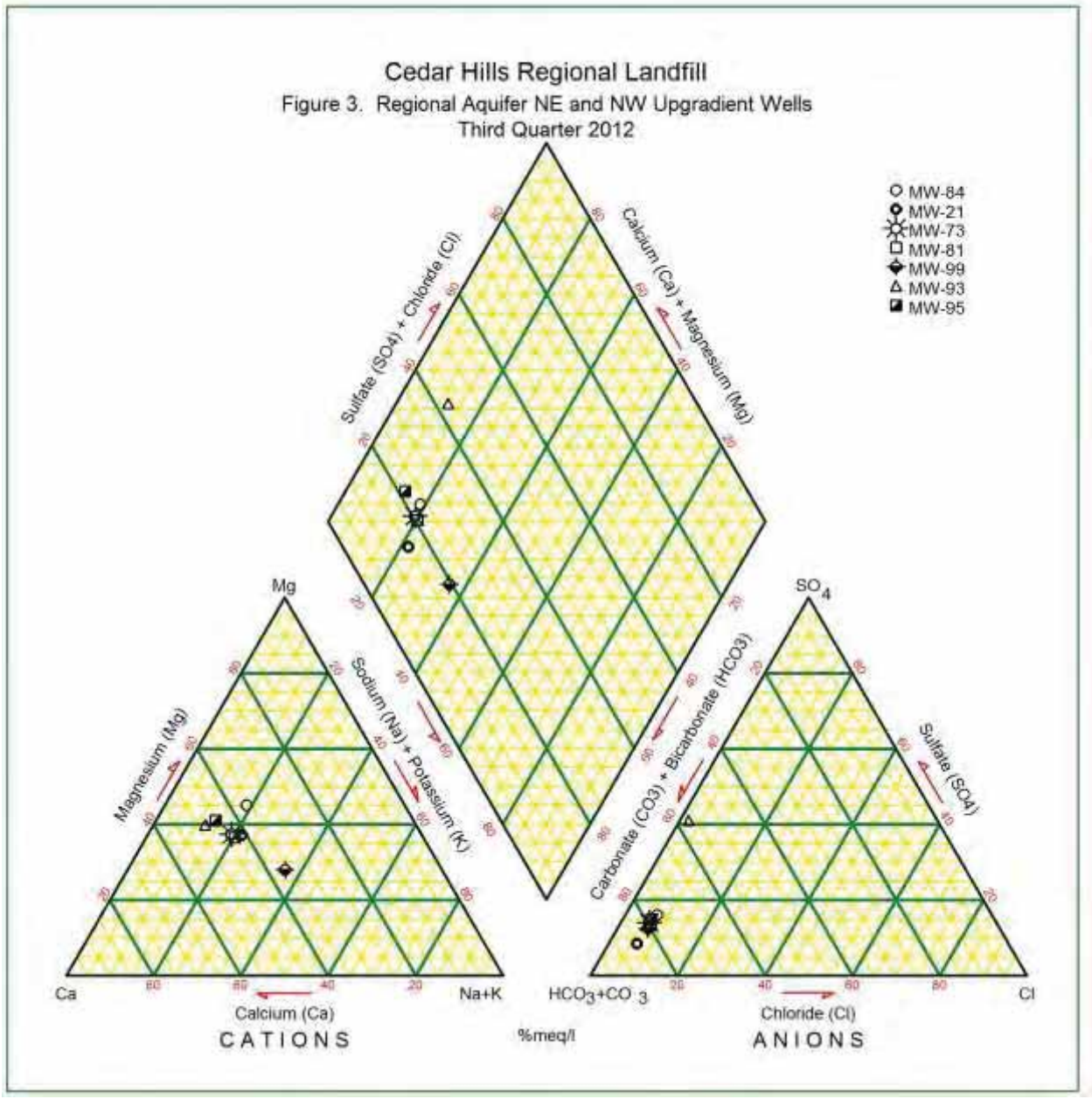
			Downgradient													
Site ID			**MW-75** 7□2□2012			**MW-80** 7□1□2012			**MW-87** 7□20□2012			**MW-85** 7□27□2012			**MW-91** 7□1□2012			**MW-74** 7□2□2012		
Cations	M□	n	mg□L	me□□L	□□me□□	mg□L	me□□L	□□me□□	mg□L	me□□L	□□me□□	mg□L	me□□L	□□me□□	mg□L	me□□L	□□me□□	mg□L	me□□L	□□me□□
Cal□ium	□0□1	2	21□7	1□0□2□□	□7□0	2□□2	1□2□7□□	□□□□	□□□1	1□7□1□	□0□□	21□□	1□072□□	□1□□	21□□	1□077□□	□□□□	□□□□	1□□7□0□	□□□2
Magnesium	2□□□	2	1□□□	1□□□0□□	□7□□	12□□	1□0□□2□	□□□□	2□□□	1□□□□□□	□□□□	1□□7	1□127□□	□□□□	1□□1	1□1□02□	□2□□	□0□□	2□□1□	□0□0
□otassium	□□□1	1	1□□	0□0□1□□	1□□	1□□	0□0□□□2	1□□	2□0	0□0□1□□	1□2	1□□	0□0□□02	1□□	1□□	0□0□1□□	1□□	1□□	0□0□□□	1□0
□odium	2□□0	1	7□□	0□□□□□7	11□□	□□□	0□2□7□□	11□0	□□□□	0□□□□□□	□□0	7□□	0□□□01□	12□□	7□□	0□□2101	11□□	11□□	0□□□□□7	□□□
□ron	□□□□	2	1□□□	0□0□□7□	2□0	1□□□	0□0□□7□	2□0	□2□	0□11□7□	2□7	0□01	0□000□□	0□0	2□□1	0□0□□□□	□□□	0□01	0□000□□	0□0
Manganese	□□□□	2	0□12	0□00□□□	0□2	0□2□	0□00□□□	0□□	0□□□	0□012□□	0□□	0□00	□□E□0□	0□0	0□2□	0□01001	0□□	0□00	□□E□0□	0□0
□mmonia□□	1□0	1	0□01	0□00071	0□0	0□01	0□00071	0□0	0□02	0□00107	0□0	0□01	0□00071	0□0	0□0□	0□0020□	0□1	0□01	0□00071	0□0
Total Cations (meq/L)				**2.9**			**2.7**			**4.3**			**2.6**			**2.7**			**5.0**	
□nions																				
□l□alinit□□Total			□□			□□			□7			□□			□2			207		
□□□Car□onate	□0□0	2	0□0□□2	0□001□7	0□1	0□0□□□	0□00□1□	0□1	0□0□□□	0□0012□	0□0	0□0□□1	0□0021□	0□1	0□0□21	0□00207	0□1	0□17□□	0□00□□□	0□1
□□□□i□ar□onate	□1□0	1	117□□7	1□□2□7□	□2□2	107□7□	1□7□□□□	□2□□	10□□□□	1□72□□□	□□2	11□□□□	1□□□7□□	□□□□	112□□□	1□□□1□□	□□□□	2□2□1□	□□1□□□2	77□□
Chloride	□□□□	1	□2□	0□2□□□□	7□□	□□□□	0□1□7□□	□□□	□1□	0□1□□□□	□2	7□1□	0□201□□	7□□	7□□0	0□20□□1	7□1	2□□20	0□□□□□□	12□□
□itrate□□	1□□0	1	0□01	0□00071	0□0	0□01	0□00071	0□0	0□02	0□00107	0□0	0□12	0□00□71	0□□	0□02	0□0012□	0□0	0□□□	0□0□□77	0□7
□ulfate	□□□1	2	□□□70	0□□□0□□	□0□1	□□□00	0□□1□12	□2□□	127□00	2□□□□2□	□□□□	□1□□0	0□□□1□□	2□□□	□0□20	0□□□7	2□□0	22□□0	0□□7□72	□□0
Total Anions (meq/L)				**3.1**			**2.8**			**4.5**			**2.7**			**2.9**			**5.3**	
Total Ions (meq/L)				**6.0**			**5.5**			**8.8**			**5.3**			**5.6**			**10.3**	
Cation/Anion Ratio				**0.95**			**0.96**			**0.95**			**0.94**			**0.94**			**0.95**	
Percent Difference				**-2.8**			**-2.0**			**-2.7**			**-3.0**			**-3.3**			**-2.5**	
Trilinear Diagram Data																				
sum□□Ca□Mg□□a□□□				2□□□			2□□□			□1□			2□□□			2□□0			□0□	
Cal□ium					□7□□□			□7□□0			□2□22			□1□□□			□1□□□			□□22
Magnesium					□□□□2			□□7□			□7□21			□□□□□			□□□□1			□□□□□
□odium□□□otassium					1□□□□			12□71			10□□7			1□□20			1□□□□			10□□1
sum□□□□□Cl□HC□□C□□				□0□			2□□2			□□□2			2□71			2□□□			□27	
□ulfate					0□120			2□□□□□			□□□1□			2□02□			2□□□□□			□010
Chloride					7□□□□			□□□□□			□20□			7□□2□			7□1□□			12□□21
□i□ar□onate□□Car□onate					□2□□22			□2□□7□			□□277			□□□□□			□□□□71			7□□□□□

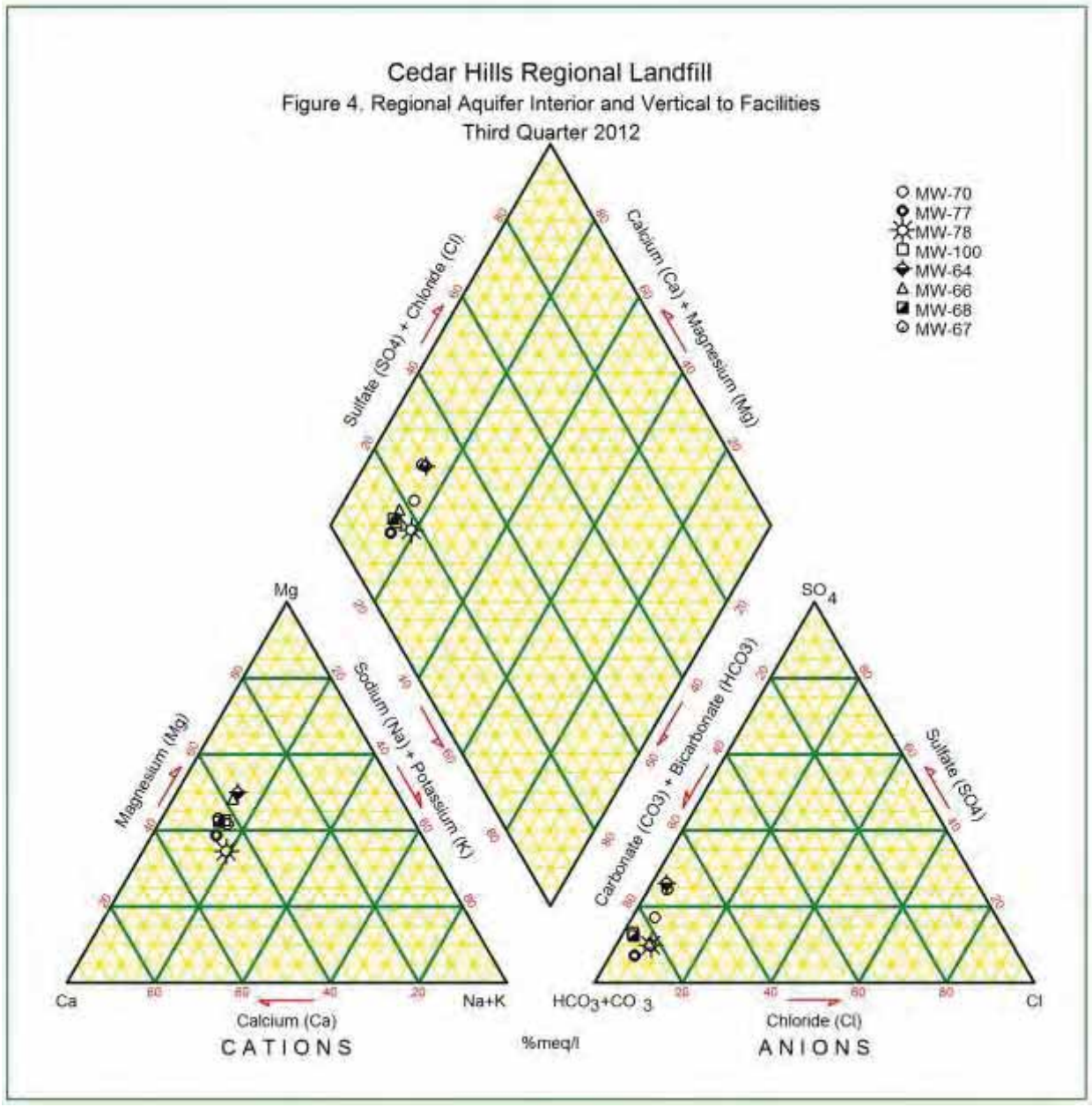
Table 4
Ion Balance Calculations
Cedar Hills Landfill Regional Aquifer Groundwater Monitoring Wells

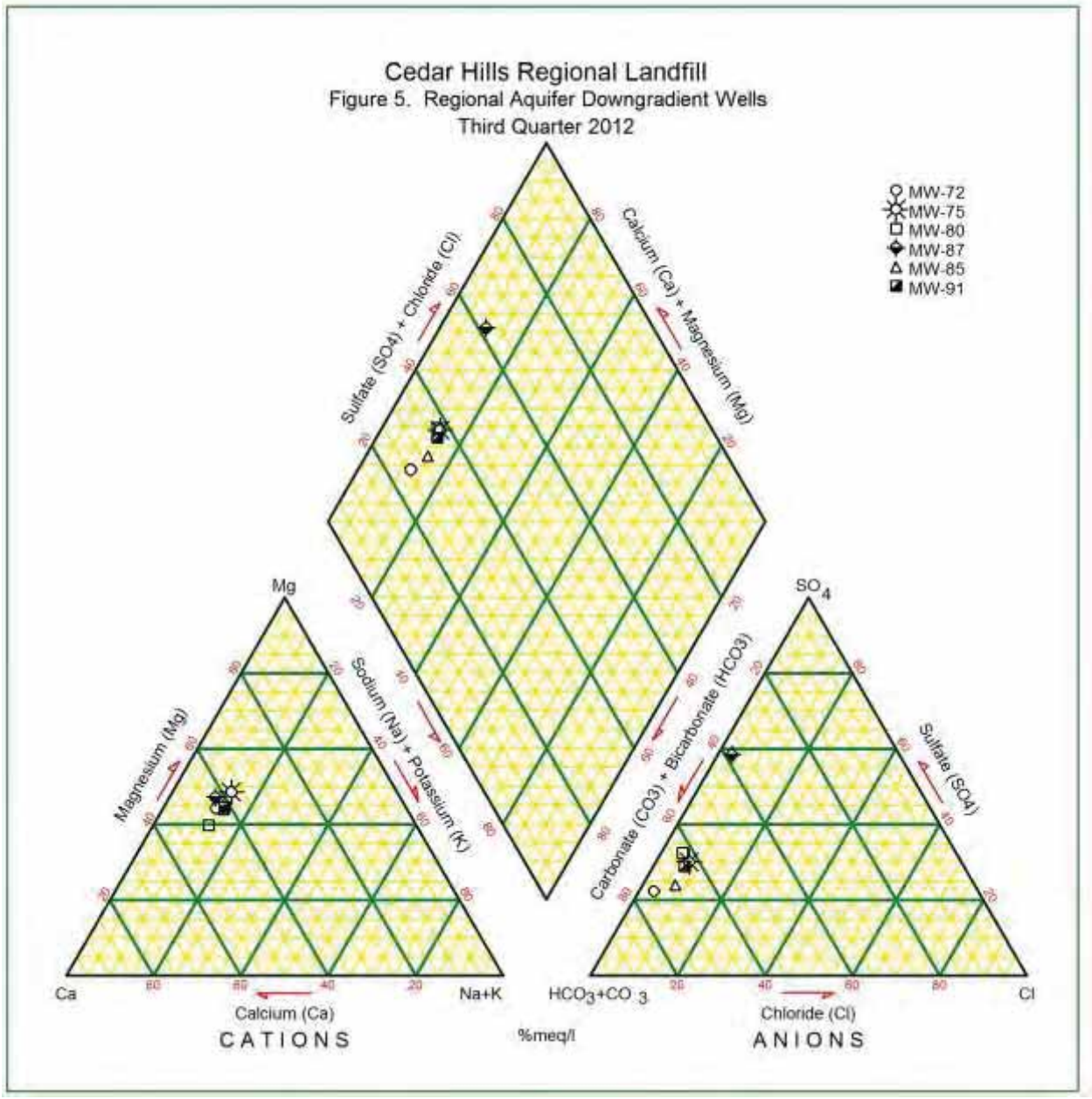
□ata □olle□ted from□ul□ 1□2012 □eptem□er□0□2012

			Downgradient											
Site ID			**MW-86** 7□1□2012			**MW-88** 7□2□2012			**MW-89** 7□1□2012			**MW-90** 7□1□2012			**MW-43** 7□□2012		
Cations	M□	n	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□	mg□L	me□□L	□ □me□□
□al□ium	□0□1	2	12□□	0□□□□71	□□2	□□□	0□□1	□□7	12□□	0□□2□7□	□□□□	1□2	0□□0□□□	□2□1	12□1	0□□0□7□	□□□□
Magnesium	2□□□	2	□□□	0□701□1	□2□7	□□□	0□□2□□2	□□0	□□□	0□7□□2□	□2□7	□□□	0□7□□□□	□□□□	□□□	0□7□□1□	□□□□
□otassium	□□□1	1	1□1	0□027□2	1□7	0□□	0□0201□	1□7	1□□	0□0□□□□	2□0	1□□	0□0□□02	1□□	1□□	0□0□□□1	2□0
□odium	2□□0	1	□□0	0□2□□□1	1□□□	□□□	0□2□□02	1□□□	□□□	0□□□10□	1□□□	□0	0□2□0□□	1□□□	□□1	0□2□□21	1□□□
□ron	□□□□	2	0□2□	0□0102□	0□□	0□01	0□000□□	0□0	0□□□	0□0□0□□	1□□	1□1□	0□0□0□□	2□1	0□□□	0□0□□□□	2□0
Manganese	□□□□	2	0□01	0□0002	0□0	0□00	□□E□0□	0□0	0□2□	0□00□17	0□□	0□2□	0□00□□2	0□□	0□2□	0□00□□1	0□□
□mmonia□□	1□□0	1	0□01	0□00071	0□0	0□01	0□00071	0□1	0□02	0□001□□	0□1	0□02	0□00107	0□1	0□02	0□001□□	0□1
Total Cations (meq/L)				**1.6**			**1.2**			**1.9**			**1.9**			**1.7**	
□nions																	
□l□alinit□□Total			□□			□2			7□			□□			70		
□□□Car□onate	□0□0	2	0□0□□□□	0□001□	0□1	0□02□01	0□000□□	0□1	0□0□□□□	0□002□□	0□2	0□0□7	0□0022□	0□1	0□0□□07	0□00227	0□1
□□□□i□ar□onate	□1□0	1	7□□□□	1□2□□□1	72□□	□□□7□	1□0□□□1	□0□7	□0□□□	1□□□07□	77□2	□□□□0	1□□7□□□	□□□1	□□□1□	1□□□□□2	7□□□
Chloride	□□□□	1	□0□	0□11□2□	□□□	2□□□	0□0□□□□	□□□	□7□	0□10□□2	□□	□□□□	0□10□□1	□□□	□□□7	0□0□□0□	□□□
□itrate□□	1□□0	1	0□□□	0□027□1	1□□	0□□□	0□0□□12	□0	0□01	0□00071	0□0	0□01	0□00071	0□0	0□01	0□00071	0□0
□ulfate	□□□1	2	1□□□0	0□□□1□□	1□□2	□7□	0□1□117	10□□	1□□□0	0□□□10□	17□1	2□□□0	0□□□0□□	2□□□	1□□□0	0□2□7□□	1□□1
Total Anions (meq/L)				**1.8**			**1.3**			**1.9**			**2.0**			**1.8**	
Total Ions (meq/L)				**3.4**			**2.5**			**3.8**			**3.9**			**3.5**	
Cation/Anion Ratio				**0.92**			**0.92**			**0.96**			**0.95**			**0.94**	
Percent Difference				**-4.0**			**-4.0**			**-2.0**			**-2.5**			**-2.9**	
Trilinear Diagram Data																	
sum□Ca□Mg□□a□□□				1□□□			1□1□			1□□1			1□□7			1□□□	
Cal□ium					□□□□□			□□□□			□□□□7			□□2□			□□□□□
Magnesium					□□01			□□0□			□□□71			□0□□			□□□□0
□odium□□□otassium					17□□□			21□□0			21□□2			1□□77			1□□□1
sum□□□□□Cl□HC□□C□□				1□7□			1□2□			1□□□			2□02			1□7□	
□ulfate					1□□□□□			11□2□□			17□1□0			2□□□□			1□1□0
Chloride					□□□22			□□□□			□□□20			□□□7□			□□□□0
□i□ar□onate□□Car□onate					7□□□□2			□□2□□			77□□□0			□□27□			7□□□20


Cedar Hills Regional Landfill
Figure 2. Regional Aquifer Southern Upgradient Wells
Third Quarter 2102
MW-56
MW-57
MW-76
MW-83
MW-60
MW-94
MW-82
MW-65
MW-58A
MW-59
MW-24
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS
%meq/l


Cedar Hills Regional Landfill
Figure 3. Regional Aquifer NE and NW Upgradient Wells
Third Quarter 2012
MW-84
MW-21
MW-73
MW-81
MW-99
MW-93
MW-95
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
%meq/l
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS


Cedar Hills Regional Landfill
Figure 4. Regional Aquifer Interior and Vertical to Facilities
Third Quarter 2012
MW-70
MW-77
MW-78
MW-100
MW-64
MW-66
MW-68
MW-67
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS
%meq/l


Cedar Hills Regional Landfill
Figure 5. Regional Aquifer Downgradient Wells
Third Quarter 2012
MW-72
MW-75
MW-80
MW-87
MW-85
MW-91
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS
%meq/l

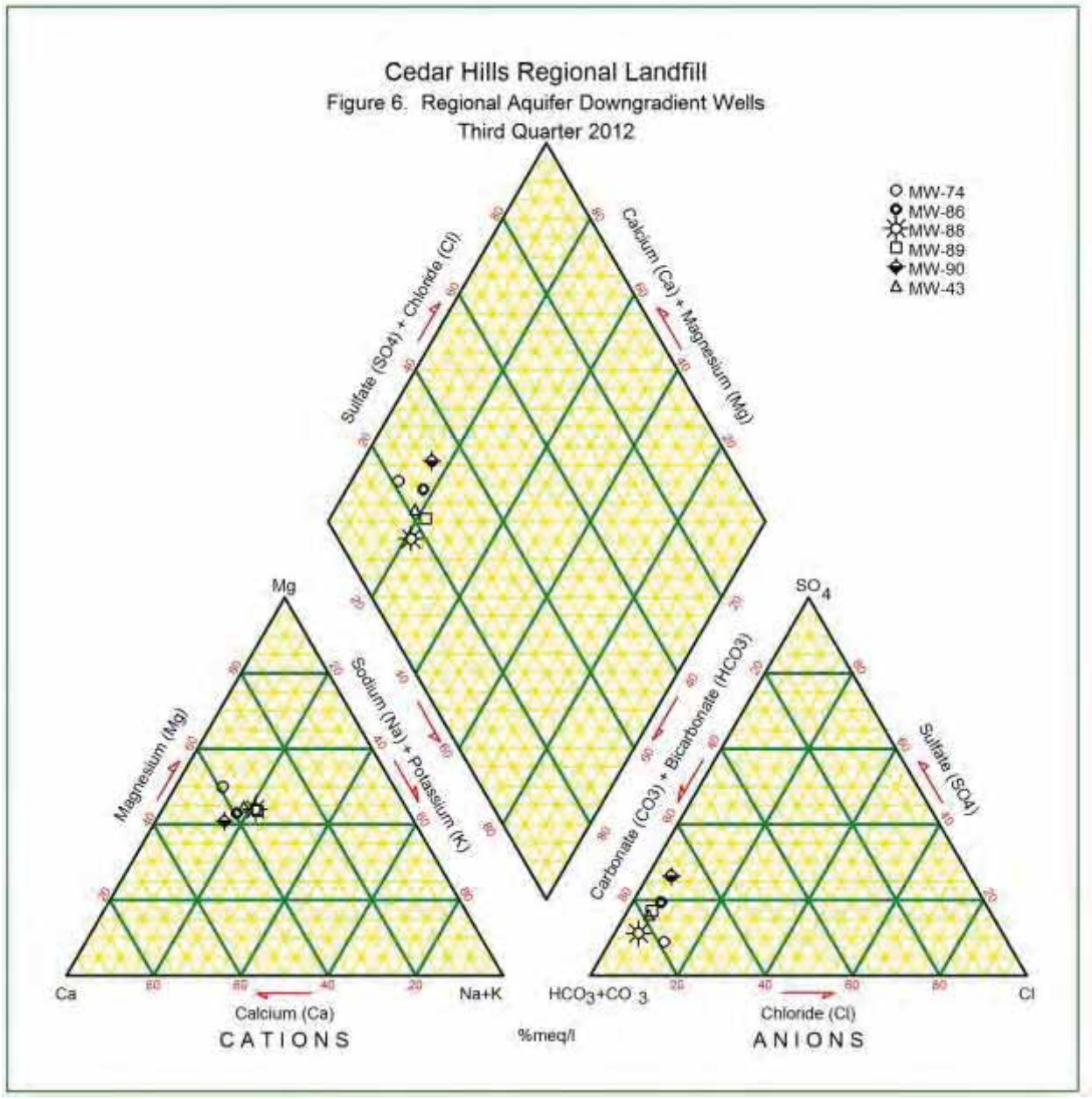

Cedar Hills Regional Landfill
Figure 6. Regional Aquifer Downgradient Wells
Third Quarter 2012
MW-74
MW-86
MW-88
MW-89
MW-90
MW-43
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS
%meq/l

TABLE 5
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT EXCEEDANCES
ata Colle ted from ul 1 2012 to eptem er 0 2012

arameter nits	ell	ample ate	ample alue	ntra ell Limit alue
Upgradient Wells				
RE CT L M T E CEE CE TH Q RTER				
Downgradient Wells				
itrate mg L	M	07 1 12	0	0 1

TABLE 6
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN REGIONAL AQUIFER WELLS
□□ata□Colle□ted□from□ul□1□2012□to□eptem□er□0□2012□□□□

□nal□te	□□□□□ite□□□ □□□□□	□□□ate□□	□ample□□□	µg□L
Upgradient Wells				
□□etone	M□ □2□	07□1□□12	□ 2□□1207□1□	12□□
	M□ □7□	7□2□□2012	□ 7□□12072□□	□□□□L
	M□ □7□	7□17□2012	□ 7□□120717□	□2□
	M□ □□□	7□27□2012	□ □□□120727□	□0□
□is□1□2□□i□hloroethene	M□ □2□	7□1□□2012	□ 2□□12071□□	0□2□□T
	M□ □□□	7□1□□2012	□ □□□12071□□	0□7□□
	M□ □□□	7□□□2012	□ □□□12070□□	0□□□7
	M□ □7□	7□17□2012	□ 7□□120717□	0□□□□
Tetra□hloroethene	M□ □7□	7□17□2012	□ 7□□120717□	0□□□T
Tri□hloroethene	M□ □7□	7□17□2012	□ 7□□120717□	□□□
	M□ □7□	□□0□2012	□ 7□□120□□0□	0□□1□
	M□ □□2	7□□□2012	□ □2□12070□□	□□□1
	M□ □□□	7□17□2012	□ □□□120717□	1□2□
	M□ □□□	7□1□□2012	□ □□□12071□□	2□□□
□in□1□Chloride	M□ □□□	7□17□2012	□ □□□120717□	0□0□
Downgradient Wells				
□□etone	M□ □□□	7□1□□2012	□ □□□12071□□	□□□□
	M□ □□□	7□2□□2012	□ □□□12072□□	7□27
	M□ □72	7□2□□2012	□ 72□12072□□	□□□1
	M□ □7□	07□2□□12	□ 7□R12072□□	□□□□□L
	M□ □□□	07□27□12	M□ □□□120727□	□□□□

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 July 1, 2012 to September 30, 2012)

Parameter	Units	Well Location	Sample Date	Sample Type	Sample Value
Perched Wells					
pH (field)	(pH units)	MW-12	7/11/2012	SW-12071101	7.11
		MW-12	7/11/2012	SW-12071102	7.11
		MW-10	7/10/2012	SW-12070101	7.11
		MW-DE01	7/11/2012	SW-12071103	7.11
1,1-Dichloroethane	(µg/L)	MW-10	7/10/2012	SW-12070101	2.0
Arsenic	(mg/L)	MW-27	7/11/2012	SW-12071101	0.001
		MW-17	7/17/2012	SW-12071701	0.0011
		MW-101	7/20/2012	SW-12072001	0.0012
		MW-DE01	7/11/2012	SW-12071102	0.0012
Iron	(mg/L)	MW-17	7/17/12	SW-12071701	0.10
		MW-DE01	7/11/12	SW-12071102	2.0
Manganese	(mg/L)	MW-27	7/11/2012	SW-12071101	0.0
		MW-17	7/17/2012	SW-12071701	1.7
		MW-01	7/11/2012	SW-12071103	0.1
		MW-101	7/20/2012	SW-12072001	1.2
		MW-DE01	7/11/2012	SW-12071102	1.0
Total Dissolved Solids	(mg/L)	MW-17	7/17/12	SW-12071701	500
Vinyl Chloride	(mg/L)	MW-17	7/17/2012	SW-12071701	0.20
		MW-101	7/20/2012	SW-12072001	0.20

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

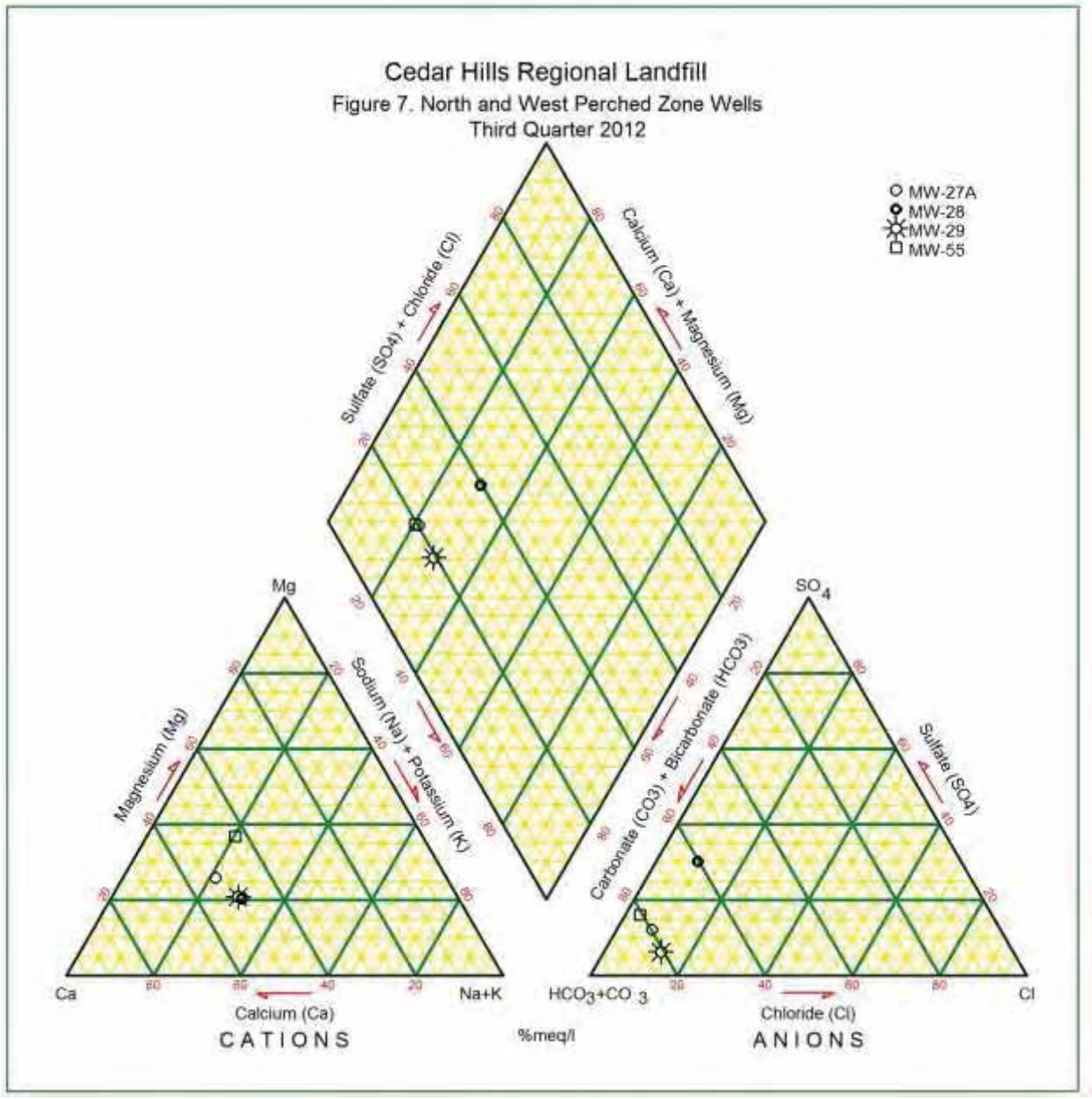
Data Collected from July 1, 2012 to September 30, 2012

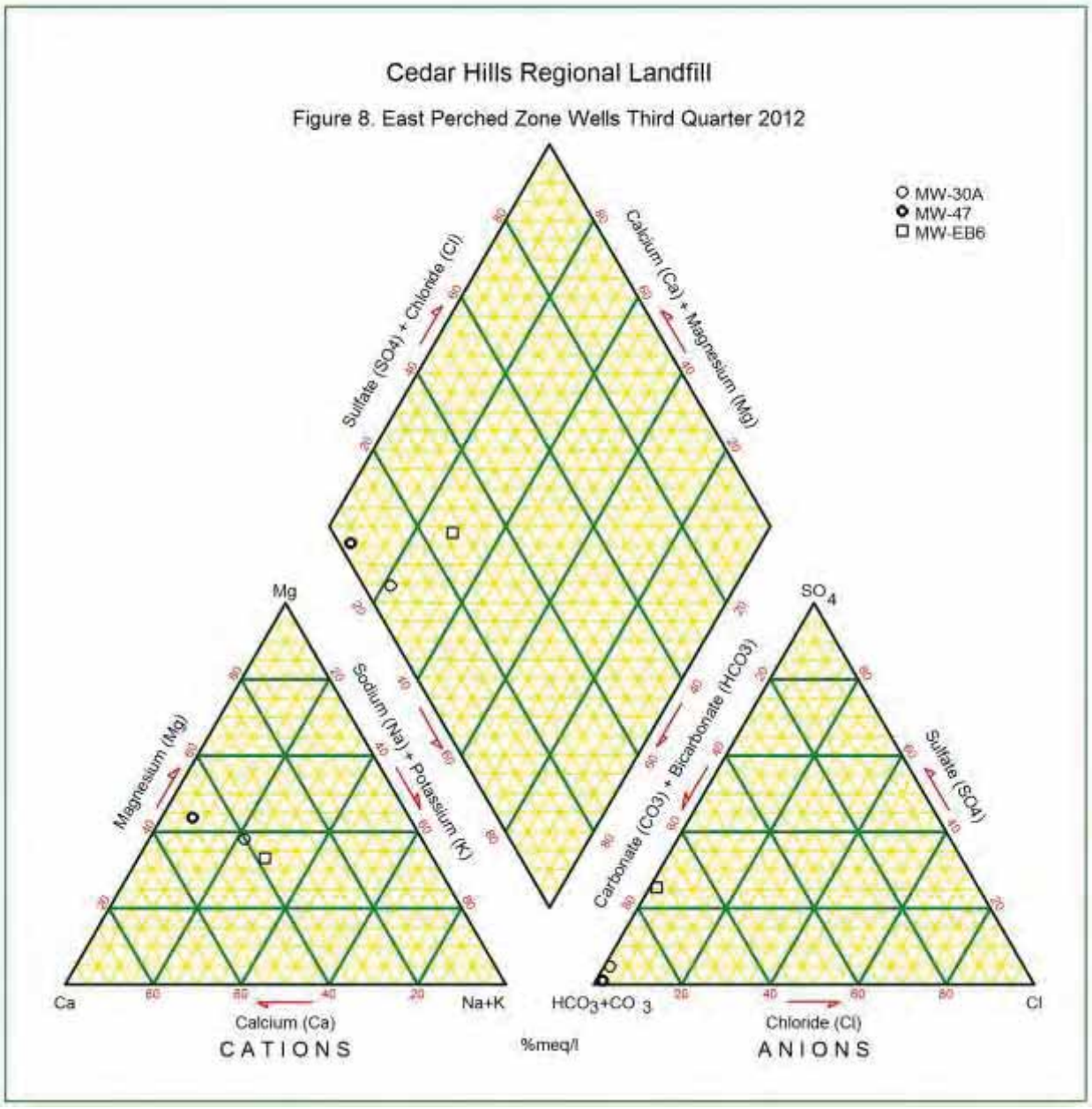
				North and West Perched Wells										
Site ID				**MW-27A**			**MW-28**			**MW-29**			**MW-55**		
Date				7/11/12			7/11/12			7/11/12			7/11/12		
Cations	MDL	n		mg/L	meq/L	%meq	mg/L	meq/L	%meq	mg/L	meq/L	%meq	mg/L	meq/L	%meq
Calcium	0.01	2	1.2	0.0599	2.9	2.4	0.0	0.00051	0.1	0.0	0.002	0.1	12.0	0.599	42.0
Magnesium	2.000	2	7	0.570	2.7	2.4	2	0.16	20.0	1.7	0.14	20.0	0.0	0.12	8.4
Potassium	0.01	1	0.0	0.00	0.0	0.0	0.0	0.02	2.0	0.0	0.012	1.0	1.7	0.02	1.0
Sodium	2.0	1	0.2	0.7	1.2	1.0	7	0.27	27.0	2	0.1	27.1	0.0	0.1	17.0
Iron	0.01	2	0.0	0.000	0.0	0.0	0.0	0.000	0.0	0.0	0.000	0.1	0.0	0.00	0.0
Manganese	0.01	2	0.1	0.002	0.1	0.1	0.0	0.E0	0.0	0.0	0.E0	0.0	0.1	0.00	0.0
Ammonia	1.0	1	0.2	0.012	0.7	0.6	0.0	0.00071	0.1	0.0	0.00071	0.1	0.1	0.001	0.0
Total Cations (meq/L)				**1.8**			**0.9**			**0.7**			**1.4**		
Anions															
Alkalinity Total				0			2.0			2.0			1.0		
Carbonate	0.0	2	0	0.0	0.0	0.0	0.0001	2E0	0.0	0.0	0.122	1E0	0.0	0.0	0.0
Bicarbonate	1.0	1	1.0	0.0	1.0	7.0	0.0	0.7	0.0	2.0	0.7	0.0	7.0	1.2	0.0
Chloride	0.01	1	7	0.1	0.0	0.0	2	0.0	1.0	2.7	0.0772	10.0	1.0	0.0	0.0
Nitrate	1.0	1	0.1	0.00	0.7	0.0	0.0	0.0202	2.1	2.1	0.1	0.707	1.0	0.0	0.0
Sulfate	0.01	2	11.7	0.2	0.0	12.2	1.7	0.2	2.0	1.0	0.0	0.70	11.0	0.2	1.0
Total Anions (meq/L)				**2.0**			**1.0**			**0.7**			**1.5**		
Total Ions (meq/L)				**3.8**			**1.9**			**1.4**			**2.9**		
Cation/Anion Ratio				**0.91**			**0.94**			**0.92**			**0.93**		
Percent Difference				**-4.5**			**-3.2**			**-4.1**			**-3.7**		
TRILINEAR DIAGRAM DATA															
sum Ca+Mg meq/L					1.1			0.0			0.0			1.0	
Calcium						2.0			0.0			0.2			2.0
Magnesium						2.0			20.0			20.0			8.4
Sodium+Potassium						21.0			0.1			2.0			20.0
sum Cl+HCO3+CO3 meq/L					2.00			0.0			0.0			1.2	
Sulfate						12.2			0.0			0.0			1.0
Chloride						0.0			0.0			1.1			0.0
Bicarbonate+Carbonate						7.0			0.0			0.0			0.0

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

Data Collected from July 1, 2012 to September 30, 2012

			East Perched Zone																	
Site ID			**MW-30A**			**MW-47**			**MW-62**			**MW-EB6**			**MW-101**					
Date			7/11/12			7/17/12			No Sample			7/11/12			7/2/12					
Cations	MDL	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	0.01	2	2.0	1.0	29.2	12.0	0.599	17.1				12.0	0.599	21.2	2.1	0.105	1.5			
Magnesium	2.0	2	1.0	1.27	18.1	7.7	0.634	18.1				0.70	0.576	19.8	0.50	0.412	5.9			
Potassium	0.1	1	1.7	0.043	1.2	1.0	0.026	0.7				1.0	0.026	0.9	0.7	0.018	0.3			
Sodium	2.0	1	1.7	0.074	2.1	1.0	0.043	1.2				10.2	0.443	15.3	1.1	0.048	0.7			
Iron	0.01	2	0.0	0.000	0.0	0.0	0.010	0.1				2.0	0.072	2.5	0.2	0.007	0.1			
Manganese	0.01	2	0.0	0.E-0	0.0	1.0	0.037	1.0				1.1	0.040	1.4	1.2	0.044	0.6			
Ammonia-N	1.0	1	0.0	0.00071	0.0	0.1	0.007	0.0				0.0	0.210	7.2	0.0	0.0011	0.0			
Total Cations (meq/L)				**3.3**			**13.2**						**2.9**			**6.9**				
Anions																				
Alkalinity-Total			1.2			0.0						7.2			0.0					
Bicarbonate	0.0	2	0.01	0.11	1.5	0.0	0.000	0.0	0.0	0.01211	0.4	0.00	0.002	0.1	0.0	0.0001	0.0	0.0	0.011	0.2
Carbonate	1.0	1	22.0	1.01	28.1	0.0	0.012	0.1	1.2	0.040	1.4	1.7	0.057	2.0	1.0	0.033	1.2	7.0	0.233	3.4
Chloride	0.01	1	1.0	0.028	0.8	7.2	0.203	5.4				1.2	0.034	1.2	0.72	0.020	0.3	0.7	0.020	0.3
Nitrate-N	1.0	1	0.0	0.002	0.0	0.0	0.00071	0.0				0.0	0.00221	0.1	0.0	0.00071	0.0			
Sulfate	0.01	2	0.0	0.1	1.7	7.0	0.146	3.9				2.2	0.046	1.6	0.0	0.10	1.4			
Total Anions (meq/L)				**3.9**			**13.6**						**2.1**			**8.0**				
Total Ions (meq/L)				**7.2**			**26.8**						**5.0**			**14.9**				
Cation/Anion Ratio				**0.86**			**0.97**						**1.42**			**0.86**				
Percent Difference				**-7.7**			**-1.6**						**17.4**			**-7**				
TRILINEAR DIAGRAM DATA																				
sum Ca+Mg cation a				0.0			1.10						1.0			0.0				
Calcium					0.1			0.2						0.02			0.21			
Magnesium					0.1			0.1						0.21			0.1			
Sodium+Potassium					21.7			7.1						2.77			10.2			
sum CO3+Cl+HCO3+C anion				0.0			1.01						2.0			0.01				
Sulfate					0.7			1.1						2.0			1.0			
Chloride					1.0			1.0						1.0			1.0			
Bicarbonate+Carbonate					0.0			0.7						7.0			0.7			


Cedar Hills Regional Landfill
Figure 7. North and West Perched Zone Wells
Third Quarter 2012
MW-27A
MW-28
MW-29
MW-55
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Sodium (Na) + Potassium (K)
Carbonate (CO3) + Bicarbonate (HCO3)
Mg
Magnesium (Mg)
Ca
Calcium (Ca)
Na+K
CATIONS
SO4
Sulfate (SO4)
HCO3+CO3
Chloride (Cl)
Cl
ANIONS
%meq/l


Cedar Hills Regional Landfill
Figure 8. East Perched Zone Wells Third Quarter 2012
MW-30A
MW-47
MW-EB6
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Sodium (Na) + Potassium (K)
Mg
Magnesium (Mg)
Ca
Calcium (Ca)
Na+K
CATIONS
%meq/l
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO 3
Chloride (Cl)
Cl
ANIONS

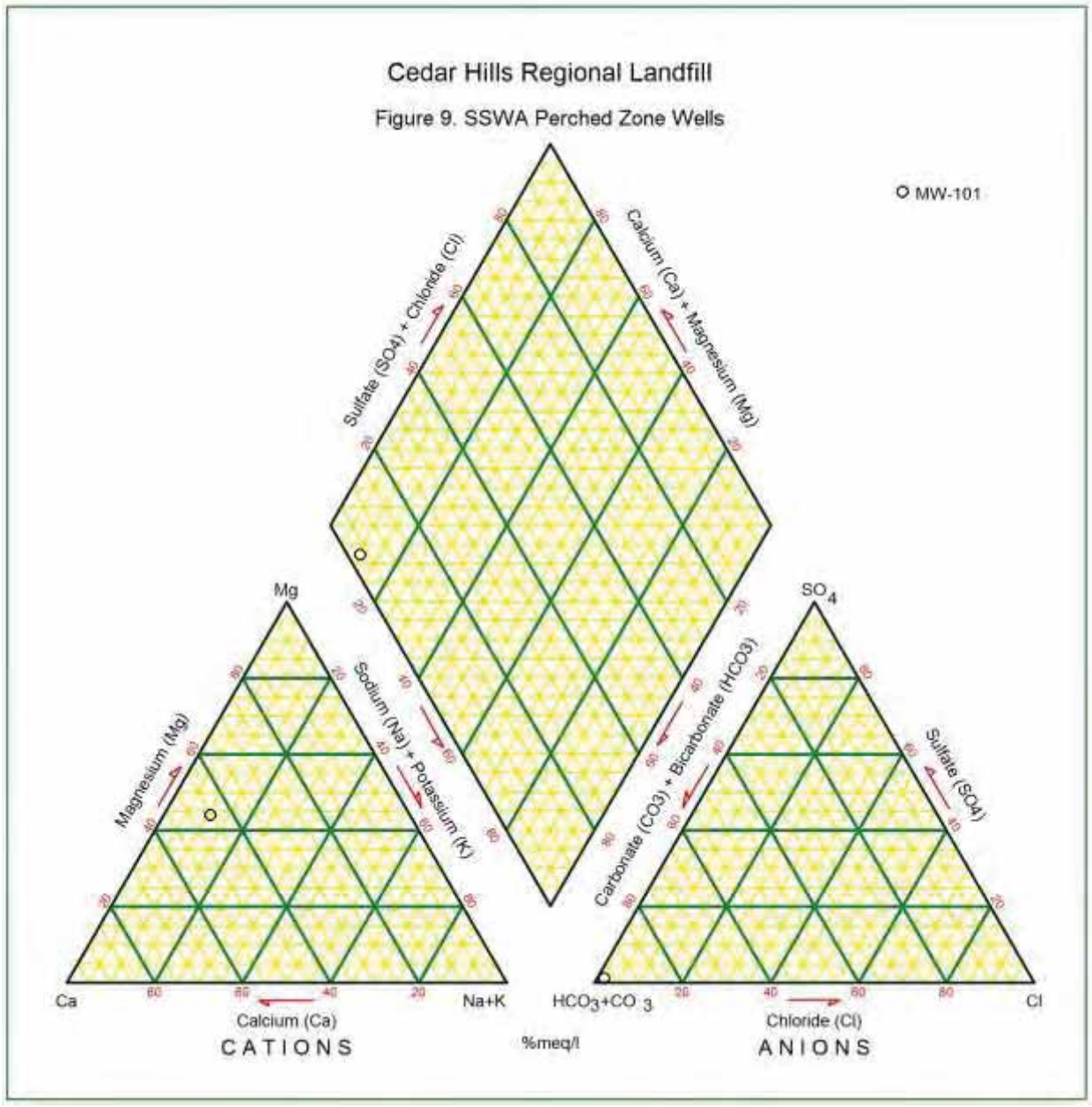

Cedar Hills Regional Landfill
Figure 9. SSWA Perched Zone Wells
MW-101
Sulfate (SO4) + Chloride (Cl)
Calcium (Ca) + Magnesium (Mg)
Mg
Magnesium (Mg)
Sodium (Na) + Potassium (K)
Ca
Na+K
Calcium (Ca)
CATIONS
%meq/l
SO4
Carbonate (CO3) + Bicarbonate (HCO3)
Sulfate (SO4)
HCO3+CO3
Cl
Chloride (Cl)
ANIONS

TABLE 9
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT EXCEEDANCES
Data Collected from July 1, 2012 to September 30, 2012

Parameter	Units	Well Number	Sample Date	Sample Value	Limit Value
NO EXCEEDANCES WERE REPORTED FOR THIS QUARTER					

TABLE 10
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN PERCHED ZONE WELLS
□□ata □olle□ted from □une 1 □2012 to □eptem □er □0 □2012 □□□

□nal□te	□□□□□□ite □□□ □□□□□□	□□□ate □□	□ample □□□	ug□L
Perched Wells				
□□etone	M□ □27□	7□1 □□2012	□ 27□12071 □□	□□□2
	M□ □□7	7□17□2012	□ □7□120717□	□□□□
	M□ □□□	7□1 □□2012	□ □□□12071 □□	□□□□
	M□ □101	7□2 □□2012	□ 10112072 □□	7□1□
	M□ □E□□	7□1 □□2012	□ □□□12071 □□	1□
1□1□□□i□hloroethane	M□ □□0□	7□□□2012	□ □0□12070□□	2□□
	M□ □□7	7□17□2012	□ □7□120717□	0□□□
□is□1□2 □□i□hloroethene	M□ □□0□	7□□□2012	□ □0□12070□□	□2
	M□ □□7	7□17□2012	□ □7□120717□	1□2□
□i□hlorodifluoromethane	M□ □□7	7□17□2012	□ □7□120717□	□□□1
Toluene	M□ □E□□	7□1 □□2012	□ □□□12071 □□	□□□□
Tri□hloroethene	M□ □□0□	7□□□2012	□ □0□12070□□	1□□□
□in□l□Chloride	M□ □□7	7□17□2012	□ □7□120717□	□□□□
	M□ □101	7□2 □□2012	□ 10112072 □□	0□2□□

□ee □□ata □Qualifier □List □for □Qualifier □nformation□

Table 11
Surface Water Monitoring Activities 3rd Quarter 2012

Station ID	Date	Planned Acitvity	Sample ID	Comment
E1	7/12/12	Quarterly Characterization Sample		No Flow to Sample
E1	6/2/12	Monthly Characterization Sample		No Flow to Sample
E1	5/1/12	Monthly Characterization Sample		No Flow to Sample
SW1		SW Permit Sample		No Flow to Sample
SW1	7/12/12	Quarterly Characterization Sample	SW1120712Q	
SW1	6/2/12	Monthly Characterization Sample		No Flow to Sample
SW1	5/1/12	Monthly Characterization Sample		No Flow to Sample
LS1	7/2/12	South Lagoon Inlet Characterization	LS112072	
LS1	6/7/12	South Lagoon Inlet Characterization		No Flow to Sample
LS1	5/27/12	South Lagoon Inlet Characterization		No Flow to Sample
LS2	7/2/12	South Lagoon Inlet Characterization	LS212072	
LS2	6/7/12	South Lagoon Inlet Characterization	LS2120607	
LS2	5/27/12	South Lagoon Inlet Characterization	LS2120527	
LSO	7/2/12	South Lagoon Outlet Characterization		No Flow to Sample
LSO	6/7/12	South Lagoon Outlet Characterization		No Flow to Sample
LSO	5/27/12	South Lagoon Outlet Characterization		No Flow to Sample
MC	7/12/12	Quarterly Characterization Sample	MC120712Q	
MC	6/2/12	Monthly Characterization Sample		No Flow to Sample
MC	5/1/12	Monthly Characterization Sample		No Flow to Sample
S1	7/12/12	Quarterly Characterization Sample	S1120712Q	
S1	6/2/12	Monthly Characterization Sample		No Flow to Sample
S1	5/1/12	Monthly Characterization Sample		No Flow to Sample
SS	7/12/12	Quarterly Characterization Sample	SS120712Q	
SS	6/2/12	Monthly Characterization Sample		No Flow to Sample
SS	5/1/12	Monthly Characterization Sample		No Flow to Sample
S1	7/12/12	Quarterly Characterization Sample	S1120712Q	
S1	6/2/12	Monthly Characterization Sample		No Flow to Sample
S1	5/1/12	Monthly Characterization Sample		No Flow to Sample
S2	7/12/12	Quarterly Characterization Sample	S2120712Q	
S2	6/2/12	Monthly Characterization Sample		No Flow to Sample
S2	5/1/12	Monthly Characterization Sample		No Flow to Sample
SS	7/12/12	Quarterly Characterization Sample		No Flow to Sample
SS	6/2/12	Monthly Characterization Sample		No Flow to Sample
SS	5/1/12	Monthly Characterization Sample		No Flow to Sample
SL	7/12/12	SL Permit Sample		No Flow to Sample
SL	7/2/12	SL Permit Sample		No Flow to Sample
SL	6/2/12	Monthly Characterization Sample		No Flow to Sample
SL	6/7/12	SL Permit Sample		No Flow to Sample
SL	5/1/12	Monthly Characterization Sample		No Flow to Sample
SL	5/27/12	SL Permit Sample		No Flow to Sample
TS1	10/1/12	Treatment Top Tier Monitoring		No Flow to Sample
TS2	10/1/12	Treatment Top Tier Monitoring		No Flow to Sample
TSO	10/1/12	Treatment Top Tier Monitoring		No Flow to Sample
TSO	10/1/12	Treatment Top Tier Monitoring		No Flow to Sample

Table 11
Surface Water Monitoring Activities 3rd Quarter 2012

Station ID	Date	Planned Acitvity	Sample ID	Comment
□	7□12□12	Quarterl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□	□2□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□	□1□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□	7□12□12	Quarterl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□	□2□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□	□1□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□ 1	7□12□12	Quarterl□□Chara□teri□ation□□ample	□□ 1□120712Q	
□ 1	□2□□12	Monthl□□Chara□teri□ation□□ample	□□ 1□120□2□M	
□ 1	□1□□12	Monthl□□Chara□teri□ation□□ample	□□ 1□120□1□M	
□ 2	7□12□12	Quarterl□□Chara□teri□ation□□ample	□□ 2□120712Q	
□ 2	□2□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□ 2	□1□□12	Monthl□□Chara□teri□ation□□ample	□□	□o□□lo□□□□o□□ample
□ield□□lan□	7□2□□12	Q□□QC□□ample	□L□212072□□	

TABLE 12
CEDAR HILLS LANDFILL
SUMMARY OF STORMWATER PERMIT EXCEEDANCES
(July 1, 2012 to September 30, 2012)

Parameter	Sampling Location	Day/Month	Value	Regulatory Limit	Regulation
T□□ □mg□L□	□□ □□□1	7□12□12	□□□□	27	□□□□

□□□ □□□□ndustrial□□eneral□□torm□ater□□ermit□

TABLE 13
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
□□ata □olle□ted from□ul□1□□2012 to□eptem□er□□0□□2012□□□□

Analyte	Site ID	Date	Sample ID	µg/L
□□etone	□□□□Trip□□lan□	7□17□2012	□TR□12071□□	□□T
	□□□□Trip□□lan□	7□1□□2012	□TR□12071□□	□□□2□L
	□□□□Trip□□lan□	7□20□2012	□TR□12072□C	□2□□L
	□□□□Trip□□lan□	7□2□□2012	□TR□12072□□	□□12□L
	□□□□Trip□□lan□	7□2□□2012	□TR□12072□□	□□□□□
	□□□□Trip□□lan□	7□2□□2012	□TR□12072□C	□□□1
	□□□□Trip□□lan□	7□2□□2012	□TR□12072□□	□□□□□
	□□□□Trip□□lan□	7□□0□2012	□TR□1207□1□	□□1□
	□□□□Trip□□lan□	□□□2012	□TR□120□0□C	□□□□□
	□ield□□lan□	7□27□2012	□ 100120727□	□□7□L
	□ield□□lan□	□□17□2012	□ 7□R120□17□	□□□□□
	□ield□□lan□	7□1□□2012	□ □□□12071□□	□□12
Meth□lene□Chloride	□□□□Trip□□lan□	7□2□2012	□TR□12070□C	0□□□□
	□□□□Trip□□lan□	7□1□□2012	□TR□120717C	0□21□T
	□□□□Trip□□lan□	□1□□2012	□TR□120□17□	0□□□□T
	□□□□Trip□□lan□	□1□□2012	□TR□120□20C	0□2□□T
	Method□□lan□	□22□2012	□ □12272□□1	0□2□□□T
	Method□□lan□	□1□□2012	□ □122□10□1	0□□□□□T

□ee□□ata□Qualifier□List□for□Qualifier□□nformation□

Table 14
Groundwater Quality Criteria

	□nal□te	C□□□□o□	□round□□ ater□ Qualit□Criteria Criterion□	
□□□	□R□M□R□□□□□□EC□□□□R□□C□□T□M□□□□T□□□□□R□□□□□CL□□E□			
	□□□rimar□Contaminants			
	□arium	7□□0□□□□	1□0□	mg□L
	Cadmium	7□□0□□□□	0□00□	mg□L
	Chromium	7□□0□□7□	0□0□□	mg□L
	Lead	7□□□□21	0□01□	mg□L
	Mer□ur□	7□□□□17□	0□002□	mg□L
	□elenium	77□2□□2□	0□01□	mg□L
	□ilver	7□□0222□□	0□0□□	mg□L
	□luoride	1□□□□□□□	□0□	mg□L
	□itrate	1□7□7□□□□	10□0□	mg□L
	Endrin	72□20□□	0□2	ug□L
	Metho□□□hlor	72□□□□□	□0	ug□L
	1□1□1□Tri□hloroethane	71□□□□□	200	ug□L
	2□□□□□	□□7□□7	70	ug□L
	2□□□□□T□	□□72□1	100	ug□L
	Total□Coliforms		1□100	mL
	□□□e□ondar□□□tandards			
	Copper	7□□0□□0□	1□0	mg□L
	□ron	7□□□□□□□□	0□□□	mg□L
	Manganese	7□□□□□□□□	0□0□□	mg□L
	□in□	7□□0□□□□	□0□	mg□L
	Chloride	1□□□□00□□	2□□0	mg□L
	□ulfate	1□□□0□7□□	2□□0	mg□L
	Total□□issolved□□olids		□00	mg□L
	□oaming□□gents		0□□□	mg□L
	pH	12□0□02□□	□□□□□□□	units
	Corrosivit□		non□□orrosive	
	Color		1□	units
	□dor□Threshold		□	units
	C□□Radionu□lides□and□Radioa□tivit□			
	□ross□□lpha□parti□le□a□tivit□		1□	pCi□L
	□ross□□eta□parti□le□a□tivit□		□0	pCi□L
	Tritium	1002□17□□	20□000□	pCi□L
	□trontium	7□□0□2□□□	□	pCi□L
	Radium□22□□□□Radium□22□		□	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	0.0000006	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-nitroanaline	99-59-2	2.0	ug/L
	2-Methylanaline	95-53-4	0.2	ug/L
	2-Methylanaline 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 analine	95-69-2	0.1	ug/L
	4-Chloro-2-methyl analine 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 □ ater Quality Criteria Criterion□	
Benzidine	92-87-5	0.0004	ug/L
Benzo(a)pyrene	50-32-8	0.008	ug/L
Benzotrichloride	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 Blac□38	1937-37-7	0.009	ug/L
Direct Blue 6	2602-46-2	0.009	ug/L
Direct Bro□n 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
□olpet	133-07-3	20	ug/L
□urazolidone	67-45-8	0.02	ug/L
□urium	531-82-8	0.002	ug/L
□urmecyclox	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 sufate	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-methylethylylamine	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-□henylenediamine	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
□AHs □Benzo(a)pyrene□		0.01	ug/L
□BBs	59536-65-1	0.01	ug/L
□CBs c	27323-18-8	0.01	ug/L
p-Chloronitrobenzene	100-00-5	5	ug/L
□ropylene 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
□inyl 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 □ ater Quality Criteria□173-200 □ AC □ ater Quality Standards for Ground □ aters of the State of □ ashington

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. □nits	Quarterly	5.0 to 9.0	6.0 to 9.0	
Turbidity	NT□	Quarterly	25	--	--
Oil Sheen	□es/No	Quarterly	None □isible	--	--
Copper, Total	ug/L	Quarterly	14	--	--
□inc, 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
□henol	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 □une 1, 2012 to September 30, 2012)

□arameter	□nits	□ ell ID	Sample Date	Sample ID	Sample □alue	Cause of □nuseability
Acetone	ug/L	M□ -24	07/18/12	□ 24-120718-	12.5	Blan□Contamination
		M□ -27A	07/13/12	□ 27A120713-	4.82	Blan□Contamination
		M□ -47	07/17/12	□ 47-120717-	4.95	Blan□Contamination
		M□ -55	07/18/12	□ 55-120718-	4.34	Blan□Contamination
		M□ -66	07/18/12	□ 66-120718-	4.99	Blan□Contamination
		M□ -68	07/25/12	□ 68-120725-	7.27	Blan□Contamination
		M□ -72	07/26/12	□ 72-120726-	5.91	Blan□Contamination
		M□ -73	07/23/12	□ 73-120723-	4.38 L	Blan□Contamination
		M□ -74	07/23/12	□ 74R120723-	4.38 L	Blan□Contamination
		M□ -76	07/17/12	□ 76-120717-	4.26	Blan□Contamination
		M□ -85	07/27/12	□ 85-120727-	4.45	Blan□Contamination
		M□ -95	07/27/12	□ 95-120727-	9.04	Blan□Contamination
		M□ -101	07/26/12	□ 101120726-	7.15	Blan□Contamination
		M□ -EB6	07/18/12	□ B6-120718-	13	Blan□Contamination

See Data Qualifier List for Qualifier Information.