

Attachment I

Wastewater Discharge Self-

Monitoring Reports



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701


Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

February 15, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division 

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of January 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 1/8/19, 1/17/19, 1/22/19 and 1/29/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 1/15/19-1/23/19)
- Leachate Hauling Report (for January)

Four arsenic exceedances occurred during the month of January (1/8, 1/17, 1/22 and 1/29.) KCIW was notified of these exceedances on 1/18, 1/29, 2/1 and 2/7, respectively. Details of the exceedances are provided in two *14 Day Reports*, one submitted on 2/1 and the other will be submitted by 2/21.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100 or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Assistant Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Unit Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

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King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: JANUARY 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type *	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												380,600	
2												966,000	
3												1,035,700	
4												1,048,900	
5												1,659,500	
6												275,700	
7												783,600	
8	C	7.53	0.0742	0.6238	<.0005	0.0021	0.0632	0.5314	0.0105	0.0883	<0.1 ppm	1,008,100	
9												978,200	
10												946,400	
11												1,005,700	
12												408,500	
13												411,600	
14												359,200	
15												965,600	
16												917,100	
17	C	7.97	0.0869	0.6736	<.0005	0.0019	0.0702	0.5441	0.00922	0.0715	<0.1 ppm	929,400	
18												820,200	
19												354,800	
20												353,700	
21												310,200	
22	C	8.35	0.106	0.2999	<.0005	0.0007	0.0803	0.2272	0.00833	0.0236	<0.1 ppm	339,200	
23												456,800	
24												995,200	
25												909,600	
26												413,500	
27												442,500	
28												453,500	
29	C	8.19	0.108	0.3297	<.0005	0.0008	0.0849	0.2592	0.00735	0.02244	<0.1 ppm	366,000	
30												351,000	
31												958,200	
												Total Monthly Flow (gallons)	21,604,200
												Maximum Daily Flow	1,659,500

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: [Signature]
Date: 2/15/19

1/5/19

1/8/19
1/22/19

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Monthly Min pH: 7.53
Monthly Max pH: 8.35



Industrial Waste Program Monthly Self-Monitoring Report

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King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: JANUARY 2019 Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	
1												
2												
3												
4												
5												
6												
7												
8	C	0.00204	0.01715	<0.0001	0.0004	0.0544	0.4574	<0.0004	0.0017	0.16	1.35	
9												
10												
11												
12												
13												
14												
15												
16												
17	C	0.0019	0.0147	<0.0001	0.0004	0.0623	0.4829	<0.0004	0.0016	0.147	1.139	
18												
19												
20												
21												
22	C	0.00184	0.00521	<0.0001	0.00014	0.0717	0.2028	<0.0004	0.0006	0.113	0.320	
23												
24												
25												
26												
27												
28												
29	C	0.00185	0.00565	<0.0001	0.0002	0.0723	0.2207	<0.0004	0.0006	0.138	0.421	
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____
Date 1/15/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: JANUARY 2019 Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15	0.0	0.0	Y	
16	0.0	0.0	Y	
17	0.0	0.0	Y	
18	0.0	0.0	Y	
19	0.0	0.0	Y	
20	0.0	0.0	Y	
21	0.0	0.0	Y	
22	0.0	0.0	Y	
23	0.0	0.0	Y	
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	0.0			
Monthly AVG	0.0			

1/15/19-1/23/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

2/15/19

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/17/2019
Report Group: CHLS-P_011719

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190108P
SDG/Lab Sample ID: 14814 / L71599-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 01/08/2019
LoginDate: 01/09/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	1.14		.05	.05		01/14/2019	01/14/2019	WG161824
Antimony, Total	10	mg/L	.00724		.003	.003		01/14/2019	01/14/2019	WG161824
Arsenic, Total	10	mg/L	.0742		.0005	.0005	1	01/14/2019	01/14/2019	WG161824
Barium, Total	10	mg/L	.0904		.005	.005		01/14/2019	01/14/2019	WG161824
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/14/2019	01/14/2019	WG161824
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	01/14/2019	01/14/2019	WG161824
Calcium, Total	10	mg/L	49.3		.5	.5		01/14/2019	01/14/2019	WG161824
Chromium, Total	10	mg/L	.0632		.002	.002	2.75	01/14/2019	01/14/2019	WG161824
Cobalt, Total	10	mg/L	.0135		.0005	.0005		01/14/2019	01/14/2019	WG161824
Copper, Total	10	mg/L	.0105		.002	.002	3	01/14/2019	01/14/2019	WG161824
Iron, Total	10	mg/L	3.46		.1	.1		01/14/2019	01/14/2019	WG161824
Lead, Total	10	mg/L	.00204		.001	.001	2	01/14/2019	01/14/2019	WG161824
Magnesium, Total	10	mg/L	27.5		.5	.5		01/14/2019	01/14/2019	WG161824
Manganese, Total	10	mg/L	.533		.001	.001		01/14/2019	01/14/2019	WG161824
Nickel, Total	10	mg/L	.0544		.001	.001	2.5	01/14/2019	01/14/2019	WG161824
Phosphorus, Total, ICP-MS	10	mg/L	2.95		1	1		01/14/2019	01/14/2019	WG161824
Potassium, Total	10	mg/L	154		1	1		01/14/2019	01/14/2019	WG161824
Selenium, Total	10	mg/L	<.005	U	.005	.005		01/14/2019	01/14/2019	WG161824
Silver, Total	10	mg/L	<.0004	DU	.0004	.0004	1	01/14/2019	01/15/2019	WG161824
Sodium, Total	10	mg/L	427		1	1		01/14/2019	01/14/2019	WG161824
Thallium, Total	10	mg/L	<.001	U	.001	.001		01/14/2019	01/14/2019	WG161824
Tin, Total	10	mg/L	.00792		.005	.005		01/14/2019	01/14/2019	WG161824
Vanadium, Total	10	mg/L	.0216		.00075	.00075		01/14/2019	01/14/2019	WG161824
Zinc, Total	10	mg/L	.16		.005	.005	5	01/14/2019	01/14/2019	WG161824
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/14/2019	01/15/2019	WG161827

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/24/2019
Report Group: CHLS-P_012519

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190117P
SDG/Lab Sample ID: 15035 / L71632-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 01/17/2019
LoginDate: 01/18/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.761	J	.05	.05		01/22/2019	01/24/2019	WG161930
Antimony, Total	10	mg/L	.00808		.003	.003		01/22/2019	01/24/2019	WG161930
Arsenic, Total	10	mg/L	.0869		.0005	.0005	1	01/22/2019	01/24/2019	WG161930
Barium, Total	10	mg/L	.0999		.005	.005		01/22/2019	01/24/2019	WG161930
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/22/2019	01/24/2019	WG161930
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	01/22/2019	01/24/2019	WG161930
Calcium, Total	10	mg/L	59.9		.5	.5		01/22/2019	01/24/2019	WG161930
Chromium, Total	10	mg/L	.0702		.002	.002	2.75	01/22/2019	01/24/2019	WG161930
Cobalt, Total	10	mg/L	.0154		.0005	.0005		01/22/2019	01/24/2019	WG161930
Copper, Total	10	mg/L	.00922		.002	.002	3	01/22/2019	01/24/2019	WG161930
Iron, Total	10	mg/L	3.44		.1	.1		01/22/2019	01/24/2019	WG161930
Lead, Total	10	mg/L	.0019		.001	.001	2	01/22/2019	01/24/2019	WG161930
Magnesium, Total	10	mg/L	32.3		.5	.5		01/22/2019	01/24/2019	WG161930
Manganese, Total	10	mg/L	.642		.001	.001		01/22/2019	01/24/2019	WG161930
Nickel, Total	10	mg/L	.0623		.001	.001	2.5	01/22/2019	01/24/2019	WG161930
Phosphorus, Total, ICP-MS	10	mg/L	3.29		1	1		01/22/2019	01/24/2019	WG161930
Potassium, Total	10	mg/L	195		1	1		01/22/2019	01/24/2019	WG161930
Selenium, Total	10	mg/L	<.005	U	.005	.005		01/22/2019	01/24/2019	WG161930
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	01/22/2019	01/24/2019	WG161930
Sodium, Total	10	mg/L	523		1	1		01/22/2019	01/24/2019	WG161930
Thallium, Total	10	mg/L	<.001	U	.001	.001		01/22/2019	01/24/2019	WG161930
Tin, Total	10	mg/L	.00909		.005	.005		01/22/2019	01/24/2019	WG161930
Vanadium, Total	10	mg/L	.0236		.00075	.00075		01/22/2019	01/24/2019	WG161930
Zinc, Total	10	mg/L	.147		.005	.005	5	01/22/2019	01/24/2019	WG161930
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/22/2019	01/23/2019	WG161949

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/30/2019
Report Group: CHLS-P_013119

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190122P
SDG/Lab Sample ID: 14825 / L71636-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 01/22/2019
LoginDate: 01/23/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.586	J	.05	.05		01/25/2019	01/28/2019	WG161980
Antimony, Total	10	mg/L	.00962		.003	.003		01/25/2019	01/28/2019	WG161980
Arsenic, Total	10	mg/L	.106		.0005	.0005	1	01/25/2019	01/28/2019	WG161980
Barium, Total	10	mg/L	.11		.005	.005		01/25/2019	01/28/2019	WG161980
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/25/2019	01/28/2019	WG161980
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	01/25/2019	01/28/2019	WG161980
Calcium, Total	10	mg/L	46		.5	.5		01/25/2019	01/28/2019	WG161980
Chromium, Total	10	mg/L	.0803		.002	.002	2.75	01/25/2019	01/28/2019	WG161980
Cobalt, Total	10	mg/L	.0176		.0005	.0005		01/25/2019	01/28/2019	WG161980
Copper, Total	10	mg/L	.00833		.002	.002	3	01/25/2019	01/28/2019	WG161980
Iron, Total	10	mg/L	2.84		.1	.1		01/25/2019	01/28/2019	WG161980
Lead, Total	10	mg/L	.00184		.001	.001	2	01/25/2019	01/28/2019	WG161980
Magnesium, Total	10	mg/L	34.8		.5	.5		01/25/2019	01/28/2019	WG161980
Manganese, Total	10	mg/L	.52		.001	.001		01/25/2019	01/28/2019	WG161980
Nickel, Total	10	mg/L	.0717		.001	.001	2.5	01/25/2019	01/28/2019	WG161980
Phosphorus, Total, ICP-MS	10	mg/L	3.01		1	1		01/25/2019	01/28/2019	WG161980
Potassium, Total	10	mg/L	212		1	1		01/25/2019	01/28/2019	WG161980
Selenium, Total	10	mg/L	<.005	U	.005	.005		01/25/2019	01/28/2019	WG161980
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	01/25/2019	01/28/2019	WG161980
Sodium, Total	10	mg/L	602		1	1		01/25/2019	01/28/2019	WG161980
Thallium, Total	10	mg/L	<.001	U	.001	.001		01/25/2019	01/28/2019	WG161980
Tin, Total	10	mg/L	.00968		.005	.005		01/25/2019	01/28/2019	WG161980
Vanadium, Total	10	mg/L	.0276		.00075	.00075		01/25/2019	01/28/2019	WG161980
Zinc, Total	10	mg/L	.113		.005	.005	5	01/25/2019	01/28/2019	WG161980
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/25/2019	01/28/2019	WG161981

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/07/2019
Report Group: CHLS-P_020719

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190129P
SDG/Lab Sample ID: 14831 / L71699-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 01/29/2019
LoginDate: 01/30/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.874		.05	.05		02/05/2019	02/06/2019	WG162087
Antimony, Total	10	mg/L	.00948		.003	.003		02/05/2019	02/06/2019	WG162087
Arsenic, Total	10	mg/L	.108		.0005	.0005	1	02/05/2019	02/06/2019	WG162087
Barium, Total	10	mg/L	.106		.005	.005		02/05/2019	02/06/2019	WG162087
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/05/2019	02/06/2019	WG162087
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/05/2019	02/06/2019	WG162087
Calcium, Total	10	mg/L	42.3		.5	.5		02/05/2019	02/06/2019	WG162087
Chromium, Total	10	mg/L	.0849		.002	.002	2.75	02/05/2019	02/06/2019	WG162087
Cobalt, Total	10	mg/L	.0175		.0005	.0005		02/05/2019	02/06/2019	WG162087
Copper, Total	10	mg/L	.00735	J	.002	.002	3	02/05/2019	02/06/2019	WG162087
Iron, Total	10	mg/L	3.69		.1	.1		02/05/2019	02/06/2019	WG162087
Lead, Total	10	mg/L	.00185		.001	.001	2	02/05/2019	02/06/2019	WG162087
Magnesium, Total	10	mg/L	35.1		.5	.5		02/05/2019	02/06/2019	WG162087
Manganese, Total	10	mg/L	.461		.001	.001		02/05/2019	02/06/2019	WG162087
Nickel, Total	10	mg/L	.0723		.001	.001	2.5	02/05/2019	02/06/2019	WG162087
Phosphorus, Total, ICP-MS	10	mg/L	3.79		1	1		02/05/2019	02/06/2019	WG162087
Potassium, Total	10	mg/L	236		1	1		02/05/2019	02/06/2019	WG162087
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/05/2019	02/06/2019	WG162087
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/05/2019	02/06/2019	WG162087
Sodium, Total	10	mg/L	639		1	1		02/05/2019	02/06/2019	WG162087
Thallium, Total	10	mg/L	<.001	U	.001	.001		02/05/2019	02/06/2019	WG162087
Tin, Total	10	mg/L	.0104		.005	.005		02/05/2019	02/06/2019	WG162087
Vanadium, Total	10	mg/L	.0277		.00075	.00075		02/05/2019	02/06/2019	WG162087
Zinc, Total	10	mg/L	.138		.005	.005	5	02/05/2019	02/06/2019	WG162087
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/05/2019	02/06/2019	WG162088

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	11/19/18 @ 07:39
Sample Count	Interval Time (sec)	Bump Test Date
23083	30	1/14/19 @ 10:31
H2S Readings		
Date	Daily Max	Daily Average
1/15/2019	0.0	0.0
1/16/2019	0.0	0.0
1/17/2019	0.0	0.0
1/18/2019	0.0	0.0
1/19/2019	0.0	0.0
1/20/2019	0.0	0.0
1/21/2019	0.0	0.0
1/22/2019	0.0	0.0
1/23/2019	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JANUARY
YEAR: 2019

DATE	BRIGHT			DUVALL			SPOK.			VASHON			HOBART			OTHER			REMARKS
	6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		
LOAD																			
1																			
2																			
3																			
4			4																
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0	84000.00		0	0.00		0	7000.00		0	140000.00		0	0.00		0	0.00		0.00



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

March 12, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division 

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of February 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 2/7/19, 2/13/19, 2/19/19, and 2/26/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 2/19 to 2/27/19)
- Leachate Hauling Report (for February)

Three arsenic exceedances occurred during the month of February (2/7, 2/13, and 2/19). KCIW was notified of these exceedances on 2/20, 2/21, and 3/1, respectively. Details of the exceedances are provided in two *14 Day Reports*, one submitted on 2/21 and the other on 3/7.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Assistant Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: Info.KCiw@kingcounty.gov

3/12/19

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: FEBRUARY 2019

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (Indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												1,015,700	
2												313,200	
3												306,300	
4												579,100	
5												448,000	
6												613,500	
7	C	9.21	0.11	0.3809	<0.0005	0.0009	0.0881	0.3051	0.00776	0.0269	<0.1 ppm	415,200	
8												459,900	
9												401,900	
10												410,100	
11												491,700	
12												153,600	
13	C	8.27	0.119	0.6637	<0.0005	0.0014	0.0862	0.4807	0.0104	0.058	<0.1 ppm	668,700	
14												300,600	
15												284,300	
16												409,100	
17												408,300	
18												414,200	
19	C	8.61	0.0927	0.7502	<0.0005	0.002	0.0754	0.6102	0.01	0.0809	<0.1 ppm	970,400	
20												907,600	
21												968,400	
22												969,500	
23												401,500	
24												402,200	
25												306,500	
26	C	8.58	0.0999	0.2130	<0.0005	0.0005	0.08	0.1706	0.0114	0.0243	<0.1 ppm	255,700	
27												1,015,200	
28												1,030,400	
29												N/A	
30												N/A	
31												N/A	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

3/12/19

Monthly Min pH 8.27
Monthly Max pH 9.21

Due Date: Monthly report is due by the 15th each month.

2/13/19
2/7/19

Total Monthly Flow (gallons) 15,320,800
Maximum Daily Flow 1,030,400

2/28/19



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

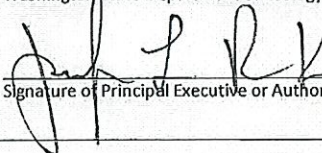
Please Specify Month & Year: Month: FEBRUARY 2019

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING** units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2												
3												
4												
5												
6												
7	C	0.00195	0.0068	<0.0001	0.0002	0.0789	0.2732	<0.0004	0.0007	0.143	0.4952	
8												
9												
10												
11												
12												
13	C	0.00256	0.0143	<0.0001	0.0003	0.0821	0.4579	<0.0004	0.0011	0.161	0.8979	
14												
15												
16												
17												
18												
19	C	0.00212	0.0172	<0.0001	0.0004	0.0713	0.577	<0.0004	0.0016	0.209	1.69	
20												
21												
22												
23												
24												
25												
26	C	0.00236	0.00503	<0.0001	0.0001	0.0735	0.1567	<0.0004	0.0004	0.166	0.354	
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.


Signature of Principal Executive or Authorized Agent

3/12/19
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: FEBRUARY 2019

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Send to: King County Industrial Waste Program

201 S. Jackson Street, Suite 513

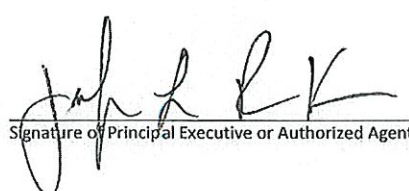
Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001

Email: info.KCIW@kingcounty.gov

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19	0.0	0.0	Y	
20	0.0	0.0	Y	
21	0.0	0.0	Y	
22	0.0	0.0	Y	
23	0.0	0.0	Y	
24	0.0	0.0	Y	
25	0.0	0.0	Y	
26	0.0	0.0	Y	
27	0.0	0.0	Y	
28				
29				
30				
31				
Monthly MAX	0.0			
Monthly AVG	0.0			
				2/19/19 - 2/27/19

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

 3/12/19
Signature of Principal Executive or Authorized Agent Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/14/2019
Report Group: CHLS-P_021519

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190207P
SDG/Lab Sample ID: 15041 / L71749-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 02/07/2019
LoginDate: 02/08/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.757	J	.05	.05		02/11/2019	02/11/2019	WG162162
Antimony, Total	10	mg/L	.00926		.003	.003		02/11/2019	02/11/2019	WG162162
Arsenic, Total	10	mg/L	.11		.0005	.0005	1	02/11/2019	02/11/2019	WG162162
Barium, Total	10	mg/L	.109		.005	.005		02/11/2019	02/11/2019	WG162162
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/11/2019	02/11/2019	WG162162
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/11/2019	02/11/2019	WG162162
Calcium, Total	10	mg/L	45.5		.5	.5		02/11/2019	02/11/2019	WG162162
Chromium, Total	10	mg/L	.0881		.002	.002	2.75	02/11/2019	02/11/2019	WG162162
Cobalt, Total	10	mg/L	.0193		.0005	.0005		02/11/2019	02/11/2019	WG162162
Copper, Total	10	mg/L	.00776		.002	.002	3	02/11/2019	02/11/2019	WG162162
Iron, Total	10	mg/L	3.7		.1	.1		02/11/2019	02/11/2019	WG162162
Lead, Total	10	mg/L	.00195		.001	.001	2	02/11/2019	02/11/2019	WG162162
Magnesium, Total	10	mg/L	36.4		.5	.5		02/11/2019	02/11/2019	WG162162
Manganese, Total	10	mg/L	.529		.001	.001		02/11/2019	02/11/2019	WG162162
Nickel, Total	10	mg/L	.0789		.001	.001	2.5	02/11/2019	02/11/2019	WG162162
Phosphorus, Total, ICP-MS	10	mg/L	3.89		1	1		02/11/2019	02/11/2019	WG162162
Potassium, Total	10	mg/L	242		1	1		02/11/2019	02/11/2019	WG162162
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/11/2019	02/11/2019	WG162162
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/11/2019	02/11/2019	WG162162
Sodium, Total	10	mg/L	674		1	1		02/11/2019	02/11/2019	WG162162
Thallium, Total	10	mg/L	<.001	U	.001	.001		02/11/2019	02/11/2019	WG162162
Tin, Total	10	mg/L	.0105		.005	.005		02/11/2019	02/11/2019	WG162162
Vanadium, Total	10	mg/L	.0295		.00075	.00075		02/11/2019	02/11/2019	WG162162
Zinc, Total	10	mg/L	.143		.005	.005	5	02/11/2019	02/11/2019	WG162162
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/11/2019	02/12/2019	WG162163

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/21/2019
Report Group: CHLS-P_022119

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190213P
SDG/Lab Sample ID: 14834 / L71749-2
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 02/13/2019
LoginDate: 02/14/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	1.29		.05	.05		02/19/2019	02/20/2019	WG162246
Antimony, Total	10	mg/L	.00975		.003	.003		02/19/2019	02/20/2019	WG162246
Arsenic, Total	10	mg/L	.119		.0005	.0005	1	02/19/2019	02/20/2019	WG162246
Barium, Total	10	mg/L	.122		.005	.005		02/19/2019	02/20/2019	WG162246
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/19/2019	02/20/2019	WG162246
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/19/2019	02/20/2019	WG162246
Calcium, Total	10	mg/L	43.4		.5	.5		02/19/2019	02/20/2019	WG162246
Chromium, Total	10	mg/L	.0862		.002	.002	2.75	02/19/2019	02/20/2019	WG162246
Cobalt, Total	10	mg/L	.0205		.0005	.0005		02/19/2019	02/20/2019	WG162246
Copper, Total	10	mg/L	.0104		.002	.002	3	02/19/2019	02/20/2019	WG162246
Iron, Total	10	mg/L	4.38		.1	.1		02/19/2019	02/20/2019	WG162246
Lead, Total	10	mg/L	.00256		.001	.001	2	02/19/2019	02/20/2019	WG162246
Magnesium, Total	10	mg/L	37.1		.5	.5		02/19/2019	02/20/2019	WG162246
Manganese, Total	10	mg/L	.569		.001	.001		02/19/2019	02/20/2019	WG162246
Nickel, Total	10	mg/L	.0821		.001	.001	2.5	02/19/2019	02/20/2019	WG162246
Phosphorus, Total, ICP-MS	10	mg/L	4.25		1	1		02/19/2019	02/20/2019	WG162246
Potassium, Total	10	mg/L	253		1	1		02/19/2019	02/20/2019	WG162246
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/19/2019	02/20/2019	WG162246
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/19/2019	02/20/2019	WG162246
Sodium, Total	10	mg/L	705		1	1		02/19/2019	02/20/2019	WG162246
Thallium, Total	10	mg/L	<.001	U	.001	.001		02/19/2019	02/20/2019	WG162246
Tin, Total	10	mg/L	.00967		.005	.005		02/19/2019	02/20/2019	WG162246
Vanadium, Total	10	mg/L	.0312		.00075	.00075		02/19/2019	02/20/2019	WG162246
Zinc, Total	10	mg/L	.161		.005	.005	5	02/19/2019	02/20/2019	WG162246
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/19/2019	02/20/2019	WG162248

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/27/2019
Report Group: CHLS-P_022719

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190219P
SDG/Lab Sample ID: 14840 / L71750-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 02/19/2019
LoginDate: 02/20/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.921		.05	.05		02/25/2019	02/26/2019	WG162293
Antimony, Total	10	mg/L	.00814		.003	.003		02/25/2019	02/26/2019	WG162293
Arsenic, Total	10	mg/L	.0927		.0005	.0005	1	02/25/2019	02/26/2019	WG162293
Barium, Total	10	mg/L	.101		.005	.005		02/25/2019	02/26/2019	WG162293
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/25/2019	02/26/2019	WG162293
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/25/2019	02/26/2019	WG162293
Calcium, Total	10	mg/L	51.2		.5	.5		02/25/2019	02/26/2019	WG162293
Chromium, Total	10	mg/L	.0754		.002	.002	2.75	02/25/2019	02/26/2019	WG162293
Cobalt, Total	10	mg/L	.0173		.0005	.0005		02/25/2019	02/26/2019	WG162293
Copper, Total	10	mg/L	.01		.002	.002	3	02/25/2019	02/26/2019	WG162293
Iron, Total	10	mg/L	4.14		.1	.1		02/25/2019	02/26/2019	WG162293
Lead, Total	10	mg/L	.00212		.001	.001	2	02/25/2019	02/26/2019	WG162293
Magnesium, Total	10	mg/L	35.2		.5	.5		02/25/2019	02/26/2019	WG162293
Manganese, Total	10	mg/L	.588		.001	.001		02/25/2019	02/26/2019	WG162293
Nickel, Total	10	mg/L	.0713		.001	.001	2.5	02/25/2019	02/26/2019	WG162293
Phosphorus, Total, ICP-MS	10	mg/L	3.15		1	1		02/25/2019	02/26/2019	WG162293
Potassium, Total	10	mg/L	208		1	1		02/25/2019	02/26/2019	WG162293
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/25/2019	02/26/2019	WG162293
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/25/2019	02/26/2019	WG162293
Sodium, Total	10	mg/L	592		1	1		02/25/2019	02/26/2019	WG162293
Thallium, Total	10	mg/L	<.001	U	.001	.001		02/25/2019	02/26/2019	WG162293
Tin, Total	10	mg/L	.00843		.005	.005		02/25/2019	02/26/2019	WG162293
Vanadium, Total	10	mg/L	.0256		.00075	.00075		02/25/2019	02/26/2019	WG162293
Zinc, Total	10	mg/L	.209		.005	.005	5	02/25/2019	02/26/2019	WG162293
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/22/2019	02/25/2019	WG162326

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/05/2019
Report Group: CHLS-P_030519

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: **LEPS190226P**
SDG/Lab Sample ID: **14841 / L71752-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **02/26/2019**
LoginDate: **02/26/2019**
Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	1.08		.05	.05		03/01/2019	03/04/2019	WG162404
Antimony, Total	10	mg/L	.00859		.003	.003		03/01/2019	03/04/2019	WG162404
Arsenic, Total	10	mg/L	.0999		.0005	.0005	1	03/01/2019	03/04/2019	WG162404
Barium, Total	10	mg/L	.105		.005	.005		03/01/2019	03/04/2019	WG162404
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/01/2019	03/04/2019	WG162404
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/01/2019	03/04/2019	WG162404
Calcium, Total	10	mg/L	44.1		.5	.5		03/01/2019	03/04/2019	WG162404
Chromium, Total	10	mg/L	.08		.002	.002	2.75	03/01/2019	03/04/2019	WG162404
Cobalt, Total	10	mg/L	.0177		.0005	.0005		03/01/2019	03/04/2019	WG162404
Copper, Total	10	mg/L	.0114		.002	.002	3	03/01/2019	03/04/2019	WG162404
Iron, Total	10	mg/L	4.25		.1	.1		03/01/2019	03/04/2019	WG162404
Lead, Total	10	mg/L	.00236		.001	.001	2	03/01/2019	03/04/2019	WG162404
Magnesium, Total	10	mg/L	34.5		.5	.5		03/01/2019	03/04/2019	WG162404
Manganese, Total	10	mg/L	.64		.001	.001		03/01/2019	03/04/2019	WG162404
Nickel, Total	10	mg/L	.0735		.001	.001	2.5	03/01/2019	03/04/2019	WG162404
Phosphorus, Total, ICP-MS	10	mg/L	3.35		1	1		03/01/2019	03/04/2019	WG162404
Potassium, Total	10	mg/L	210		1	1		03/01/2019	03/04/2019	WG162404
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/01/2019	03/04/2019	WG162404
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/01/2019	03/04/2019	WG162404
Sodium, Total	10	mg/L	601		1	1		03/01/2019	03/04/2019	WG162404
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/01/2019	03/04/2019	WG162404
Tin, Total	10	mg/L	.00824		.005	.005		03/01/2019	03/04/2019	WG162404
Vanadium, Total	10	mg/L	.027		.00075	.00075		03/01/2019	03/04/2019	WG162404
Zinc, Total	10	mg/L	.166		.005	.005	5	03/01/2019	03/04/2019	WG162404
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/01/2019	03/04/2019	WG162412

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	2/19/19 @ 13:09
Sample Count	Interval Time (sec)	Bump Test Date
23044	30	2/11/19 @ 08:44

H2S Readings

Date	Daily Max	Daily Average
2/19/2019	0.0	0.0
2/20/2019	0.0	0.0
2/21/2019	0.0	0.0
2/22/2019	0.0	0.0
2/23/2019	0.0	0.0
2/24/2019	0.0	0.0
2/25/2019	0.0	0.0
2/26/2019	0.0	0.0
2/27/2019	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: FEBRUARY
YEAR: 2019

DATE LOAD	BRIGHT		DUVALL C.H.		SPOK.		VASHON C.H.		HOBART C.H.		OTHER C.H.		REMARKS
	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1		2.00											
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15		4.00											
16													
17													
18													
19													
20		3.00											
21													
22		3.00											
23													
24													
25		2.00											
26													
27													
28													
29													
30													
31													
TOTAL	0	98000.00	0	0.00	0	0.00	0	98000.00	0	0.00	0	0.00	



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

April 12, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of March 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 3/5/19, 3/12/19, 3/19/19, and 3/26/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 3/8/19-3/21/19)
- Leachate Hauling Report (for March)

Three arsenic exceedances occurred during the month of March (3/12, 3/19, and 3/26). KCIW was notified of these exceedances on 3/19, 3/27, and 4/3, respectively. Details of the exceedances are provided in two *14 Day Reports*, one submitted on 4/2; the other will be submitted by the 4/17 due date.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Assistant Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



King County

Page 1 of 2

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill

Please Specify Month & Year: Month: MARCH 2019

Sample Site No. A90021

Permit No.: 7842-03

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												903,600	
2												584,800	
3												590,800	
4												798,600	
5	C	8.73	0.0915	0.2627	<0.0005	0.0007	0.0719	0.2064	0.00929	0.02667	<0.1 ppm	344,200	
6												367,200	
7												765,200	
8												828,500	
9												320,300	
10												156,200	
11												217,400	
12	C	8.67	0.104	0.3281	<0.0005	0.0008	0.081	0.2556	0.0112	0.0353	<0.1 ppm	378,300	
13												783,500	
14												875,600	
15												825,300	
16												418,300	
17												418,400	
18												314,100	
19	C	8.52	0.109	0.3353	<0.0005	0.0008	0.0838	0.2578	0.00997	0.0307	<0.1 ppm	368,800	
20												315,200	
21												344,900	
22												299,000	
23												303,500	
24												290,800	
25												799,000	
26	C	8.67	0.11	0.732	<0.0005	0.0017	0.0815	0.5423	0.00854	0.05683	<0.1 ppm	797,900	
27												781,000	
28												765,400	
29												576,200	
30												308,300	
31													

Monthly Min pH 8.52

Monthly Max pH 8.73

3/19/19

3/5/19

Total Monthly Flow (gallons) 15,840,300

Maximum Daily Flow 903,600

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

4/12/19

Date



King County

Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills LandfillSample Site No. A90021Permit No.: 7842-03Please Specify Month & Year: Month: MARCH 2019This form is available at www.kingcounty.gov/industrialwaste.* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (Indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2												
3												
4												
5	C	0.00172	0.00494	<0.0001	0.0001	0.0703	0.2018	<0.0004	0.0006	0.172	0.494	
6												
7												
8												
9												
10												
11												
12	C	0.00244	0.007698	<0.0001	0.0002	0.0799	0.2521	<0.0004	0.0006	0.283	0.8929	
13												
14												
15												
16												
17												
18												
19	C	0.00203	0.00624	<0.0001	0.0002	0.0806	0.2479	<0.0004	0.0006	0.239	0.7351	
20												
21												
22												
23												
24												
25												
26	C	0.00168	0.01118	<0.0001	0.0003	0.0799	0.5317	<0.0004	0.0013	0.207	1.377	
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: [Signature] Date: 4/12/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

King County

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year:

Month: MARCH 2019

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4				
5				
6				
7				
8	0.0	0.0	Y	
9	0.0	0.0	Y	
10	0.0	0.0	Y	
11	0.0	0.0	Y	
12	0.0	0.0	Y	
13	0.0	0.0	Y	
14	0.0	0.0	Y	
15	0.0	0.0	Y	
16	0.0	0.0	Y	
17	0.0	0.0	Y	
18	0.0	0.0	Y	
19	0.0	0.0	Y	
20	0.0	0.0	Y	
21	0.0	0.0	Y	
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Monthly MAX
Monthly AVG

0.0
0.0

3/8/19-3/21/19

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

4/12/19
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date:

Monthly report is due by the 15th each month.

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/12/2019
Report Group: CHLS-P_031219

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190305P
SDG/Lab Sample ID: 14856 / L71751-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 03/05/2019
LoginDate: 03/05/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/08/2019	03/11/2019	WG162542
Aluminum, Total	10	mg/L	.524		.05	.05		03/11/2019	03/11/2019	WG162549
Antimony, Total	10	mg/L	.00841		.003	.003		03/11/2019	03/11/2019	WG162549
Arsenic, Total	10	mg/L	.0915		.0005	.0005	1	03/11/2019	03/11/2019	WG162549
Barium, Total	10	mg/L	.0939		.005	.005		03/11/2019	03/11/2019	WG162549
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/11/2019	03/11/2019	WG162549
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/11/2019	03/11/2019	WG162549
Calcium, Total	10	mg/L	46.9		.5	.5		03/11/2019	03/11/2019	WG162549
Chromium, Total	10	mg/L	.0719		.002	.002	2.75	03/11/2019	03/11/2019	WG162549
Cobalt, Total	10	mg/L	.0165		.0005	.0005		03/11/2019	03/11/2019	WG162549
Copper, Total	10	mg/L	.00929		.002	.002	3	03/11/2019	03/11/2019	WG162549
Iron, Total	10	mg/L	3.68		.1	.1		03/11/2019	03/11/2019	WG162549
Lead, Total	10	mg/L	.00172		.001	.001	2	03/11/2019	03/11/2019	WG162549
Magnesium, Total	10	mg/L	33.8		.5	.5		03/11/2019	03/11/2019	WG162549
Manganese, Total	10	mg/L	.527		.001	.001		03/11/2019	03/11/2019	WG162549
Nickel, Total	10	mg/L	.0703		.001	.001	2.5	03/11/2019	03/11/2019	WG162549
Phosphorus, Total, ICP-MS	10	mg/L	2.66		1	1		03/11/2019	03/11/2019	WG162549
Potassium, Total	10	mg/L	205		1	1		03/11/2019	03/11/2019	WG162549
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/11/2019	03/11/2019	WG162549
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/11/2019	03/11/2019	WG162549
Sodium, Total	10	mg/L	560		1	1		03/11/2019	03/11/2019	WG162549
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/11/2019	03/11/2019	WG162549
Tin, Total	10	mg/L	.00788		.005	.005		03/11/2019	03/11/2019	WG162549
Vanadium, Total	10	mg/L	.0239	D	.00075	.00075		03/11/2019	03/12/2019	WG162549
Zinc, Total	10	mg/L	.172		.005	.005	5	03/11/2019	03/11/2019	WG162549

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/19/2019
Report Group: CHLS-P_031919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190312P
SDG/Lab Sample ID: 15081 / L71874-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 03/12/2019
LoginDate: 03/12/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	1.05		.05	.05		03/18/2019	03/19/2019	WG162613
Antimony, Total	10	mg/L	.00913		.003	.003		03/18/2019	03/19/2019	WG162613
Arsenic, Total	10	mg/L	.104		.0005	.0005	1	03/18/2019	03/19/2019	WG162613
Barium, Total	10	mg/L	.115		.005	.005		03/18/2019	03/19/2019	WG162613
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/18/2019	03/19/2019	WG162613
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/18/2019	03/19/2019	WG162613
Calcium, Total	10	mg/L	59.4		.5	.5		03/18/2019	03/19/2019	WG162613
Chromium, Total	10	mg/L	.081		.002	.002	2.75	03/18/2019	03/19/2019	WG162613
Cobalt, Total	10	mg/L	.0189		.0005	.0005		03/18/2019	03/19/2019	WG162613
Copper, Total	10	mg/L	.0112		.002	.002	3	03/18/2019	03/19/2019	WG162613
Iron, Total	10	mg/L	5.26		.1	.1		03/18/2019	03/19/2019	WG162613
Lead, Total	10	mg/L	.00244		.001	.001	2	03/18/2019	03/19/2019	WG162613
Magnesium, Total	10	mg/L	38.7		.5	.5		03/18/2019	03/19/2019	WG162613
Manganese, Total	10	mg/L	.705		.001	.001		03/18/2019	03/19/2019	WG162613
Nickel, Total	10	mg/L	.0799		.001	.001	2.5	03/18/2019	03/19/2019	WG162613
Phosphorus, Total, ICP-MS	10	mg/L	3.44		1	1		03/18/2019	03/19/2019	WG162613
Potassium, Total	10	mg/L	226		1	1		03/18/2019	03/19/2019	WG162613
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/18/2019	03/19/2019	WG162613
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/18/2019	03/19/2019	WG162613
Sodium, Total	10	mg/L	641		1	1		03/18/2019	03/19/2019	WG162613
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/18/2019	03/19/2019	WG162613
Tin, Total	10	mg/L	.00713		.005	.005		03/18/2019	03/19/2019	WG162613
Vanadium, Total	10	mg/L	.0273		.00075	.00075		03/18/2019	03/19/2019	WG162613
Zinc, Total	10	mg/L	.283		.005	.005	5	03/18/2019	03/19/2019	WG162613
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/14/2019	03/15/2019	WG162641

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/26/2019
Report Group: CHLS-P_032619

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190319P
SDG/Lab Sample ID: 15064 / L71880-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 03/19/2019
LoginDate: 03/19/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.97		.05	.05		03/22/2019	03/22/2019	WG162738
Antimony, Total	10	mg/L	.0109		.003	.003		03/22/2019	03/22/2019	WG162738
Arsenic, Total	10	mg/L	.109		.0005	.0005	1	03/22/2019	03/22/2019	WG162738
Barium, Total	10	mg/L	.102		.005	.005		03/22/2019	03/22/2019	WG162738
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/22/2019	03/22/2019	WG162738
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/22/2019	03/22/2019	WG162738
Calcium, Total	10	mg/L	51.9		.5	.5		03/22/2019	03/22/2019	WG162738
Chromium, Total	10	mg/L	.0838		.002	.002	2.75	03/22/2019	03/22/2019	WG162738
Cobalt, Total	10	mg/L	.0185		.0005	.0005		03/22/2019	03/22/2019	WG162738
Copper, Total	10	mg/L	.00997		.002	.002	3	03/22/2019	03/22/2019	WG162738
Iron, Total	10	mg/L	5.14		.1	.1		03/22/2019	03/22/2019	WG162738
Lead, Total	10	mg/L	.00203		.001	.001	2	03/22/2019	03/22/2019	WG162738
Magnesium, Total	10	mg/L	38.4		.5	.5		03/22/2019	03/22/2019	WG162738
Manganese, Total	10	mg/L	.603		.001	.001		03/22/2019	03/22/2019	WG162738
Nickel, Total	10	mg/L	.0806		.001	.001	2.5	03/22/2019	03/22/2019	WG162738
Phosphorus, Total, ICP-MS	10	mg/L	3.83		1	1		03/22/2019	03/22/2019	WG162738
Potassium, Total	10	mg/L	222		1	1		03/22/2019	03/22/2019	WG162738
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/22/2019	03/22/2019	WG162738
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/22/2019	03/22/2019	WG162738
Sodium, Total	10	mg/L	612		1	1		03/22/2019	03/22/2019	WG162738
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/22/2019	03/22/2019	WG162738
Tin, Total	10	mg/L	.00919		.005	.005		03/22/2019	03/22/2019	WG162738
Vanadium, Total	10	mg/L	.0266		.00075	.00075		03/22/2019	03/22/2019	WG162738
Zinc, Total	10	mg/L	.239		.005	.005	5	03/22/2019	03/22/2019	WG162738
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/21/2019	03/25/2019	WG162761

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/02/2019
Report Group: CHLS-P_040319

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190326P
SDG/Lab Sample ID: 15095 / L71954-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 03/26/2019
LoginDate: 03/27/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.54		.05	.05		03/29/2019	04/01/2019	WG162891
Antimony, Total	10	mg/L	.0107		.003	.003		03/29/2019	04/01/2019	WG162891
Arsenic, Total	10	mg/L	.11		.0005	.0005	1	03/29/2019	04/01/2019	WG162891
Barium, Total	10	mg/L	.102		.005	.005		03/29/2019	04/01/2019	WG162891
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/29/2019	04/01/2019	WG162891
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/29/2019	04/01/2019	WG162891
Calcium, Total	10	mg/L	51.6		.5	.5		03/29/2019	04/01/2019	WG162891
Chromium, Total	10	mg/L	.0815		.002	.002	2.75	03/29/2019	04/01/2019	WG162891
Cobalt, Total	10	mg/L	.0192		.0005	.0005		03/29/2019	04/01/2019	WG162891
Copper, Total	10	mg/L	.00854		.002	.002	3	03/29/2019	04/01/2019	WG162891
Iron, Total	10	mg/L	4.42		.1	.1		03/29/2019	04/01/2019	WG162891
Lead, Total	10	mg/L	.00168		.001	.001	2	03/29/2019	04/01/2019	WG162891
Magnesium, Total	10	mg/L	39.5		.5	.5		03/29/2019	04/01/2019	WG162891
Manganese, Total	10	mg/L	.582		.001	.001		03/29/2019	04/01/2019	WG162891
Nickel, Total	10	mg/L	.0799		.001	.001	2.5	03/29/2019	04/01/2019	WG162891
Phosphorus, Total	10	mg/L	3.01		1	1		03/29/2019	04/01/2019	WG162891
Potassium, Total	10	mg/L	232		1	1		03/29/2019	04/01/2019	WG162891
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/29/2019	04/01/2019	WG162891
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/29/2019	04/01/2019	WG162891
Sodium, Total	10	mg/L	650		1	1		03/29/2019	04/01/2019	WG162891
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/29/2019	04/01/2019	WG162891
Tin, Total	10	mg/L	.00878		.005	.005		03/29/2019	04/01/2019	WG162891
Vanadium, Total	10	mg/L	.0272		.00075	.00075		03/29/2019	04/01/2019	WG162891
Zinc, Total	10	mg/L	.207		.005	.005	5	03/29/2019	04/01/2019	WG162891
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/29/2019	04/01/2019	WG162910

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	3/29/19 @13:13
Sample Count	Interval Time (sec)	Bump Test Date
37575	30	3/29/19 @09:12
H2S Readings		
Date	Daily Max	Daily Average
3/8/2019	0.0	0.0
3/9/2019	0.0	0.0
3/10/2019	0.0	0.0
3/11/2019	0.0	0.0
3/12/2019	0.0	0.0
3/13/2019	0.0	0.0
3/14/2019	0.0	0.0
3/15/2019	0.0	0.0
3/16/2019	0.0	0.0
3/17/2019	0.0	0.0
3/18/2019	0.0	0.0
3/19/2019	0.0	0.0
3/20/2019	0.0	0.0
3/21/2019	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MARCH
YEAR: 2019

DATE LOAD	BRIGHT			DUVALL			SPOK.			VASHON			HOBART			OTHER			REMARKS
	6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		
1												3							
2												2							
3												2							
4												2							
5												2							
6												2							
7												2							
8												2							
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21												1							
22												2							
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0	98000		0	0		0	0		0	0		0	0		0	0		0



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701


Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

May 15, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division 

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of April 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 4/2/19, 4/9/19, 4/17/19, and 4/23/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 4/2/19 through 4/11/19)
- Leachate Hauling Report (for April)

Three arsenic exceedances occurred during the month of April (4/9, 4/17, and 4/23). KCIW was notified of these exceedances on 4/18, 4/25, and 5/2, respectively. Details of the exceedances were provided in a *14 Day Report* submitted on 5/2.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001
Email: Info.KCIW@kingcounty.gov

Company Name: King County SMD - Cedar Hills Landfill

Sample Site No.: A90021

Permit No.: 7842-03

Please Specify Month & Year:

Month: APRIL

2019

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)	
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89				
1														
2	C	8.75	0.125	0.2186	<0.0005	0.0004	0.0869	0.1520	0.00903	0.01579	<0.1 ppm	300,400		
3												209,700		
4												210,800		
5												200,600		
6												887,300		
7												390,000		
8												378,100		
9	C	8.75	0.145	0.9818	<0.0005	0.0017	0.109	0.7381	0.00922	0.06243	<0.1 ppm	735,200		
10												811,900		
11												778,600		
12												799,000		
13												819,100		
14												410,400		
15												405,800		
16												890,000		
17	C	8.63	0.107	0.9062	<0.0005	0.0021	0.0749	0.6343	0.00877	0.07428	<0.1 ppm	1,005,700		
18												1,015,500		
19												1,033,900		
20												890,000		
21												403,700		
22												387,400		
23	C	8.67	0.0913	0.7912	<0.0005	0.0022	0.0623	0.5399	0.021	0.182	<0.1 ppm	997,300		
24												1,039,100		
25												1,005,200		
26												1,027,400		
27												988,800		
28												399,700		
29												379,900		
30												601,100		
31												0		
Monthly Min pH: 8.63 Monthly Max pH: 8.75												Total Monthly Flow (gallons): 19,402,000 Maximum Daily Flow: 1,039,100	4/17/19 4/2/19 & 4/9/19	Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

5/15/19

Monthly Min pH

8.63

Monthly Max pH

8.75

Total Monthly Flow (gallons)

19,402,000

Maximum Daily Flow

1,039,100

4/23/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Company Name: King County SWD - Cedar Hills Landfill

Please Specify Month & Year: Month: APRIL 2019

Sample Site No. A90021

Permit No.: 7842-03

This form is available at www.kingcounty.gov/industrialwaste.

Send to: King County Industrial Waste Program

201 S. Jackson Street, Suite 513

Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001

Email: info.kciw@kingcounty.gov

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2	C	0.0018	0.0032	<0.0001	0.000087	0.089	0.1557	<0.0004	0.0004	0.217	0.3795	
3												
4												
5												
6												
7												
8												
9	C	0.00211	0.01429	<0.0001	0.0003	0.106	0.7178	<0.0004	0.00135	0.249	1.686	
10												
11												
12												
13												
14												
15												
16												
17	C	0.00201	0.01702	<0.0001	0.0004	0.0761	0.6445	<0.0004	0.00169	0.195	1.652	
18												
19												
20												
21												
22												
23	C	0.00224	0.01941	<0.0001	0.0004	0.0619	0.5364	<0.0004	0.00173	0.192	1.664	
24												
25												
26												
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

King County

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: APRIL 2019

This form is available at www.kingcounty.gov/Industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2	0.0	0.0	Y	
3	0.0	0.0	Y	
4	0.0	0.0	Y	
5	0.0	0.0	Y	
6	0.0	0.0	Y	
7	0.0	0.0	Y	
8	0.0	0.0	Y	
9	0.0	0.0	Y	
10	0.0	0.0	Y	
11	0.0	0.0	Y	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Monthly MAX
Monthly AVG

0.0
0.0

4/2/19-4/11/19

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

5/15/19

Signature of Principal Executive or Authorized Agent

Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/10/2019
Report Group: CHLS-P_041019

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190402P
SDG/Lab Sample ID: 15099 / L72040-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 04/02/2019
LoginDate: 04/03/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.585		.05	.05		04/05/2019	04/08/2019	WG163019
Antimony, Total	10	mg/L	.0123		.003	.003		04/05/2019	04/08/2019	WG163019
Arsenic, Total	10	mg/L	.125		.0005	.0005	1	04/05/2019	04/08/2019	WG163019
Barium, Total	10	mg/L	.0994		.005	.005		04/05/2019	04/08/2019	WG163019
Beryllium, Total	10	mg/L	<.001	U	.001	.001		04/05/2019	04/08/2019	WG163019
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	04/05/2019	04/08/2019	WG163019
Calcium, Total	10	mg/L	52.2		.5	.5		04/05/2019	04/08/2019	WG163019
Chromium, Total	10	mg/L	.0869		.002	.002	2.75	04/05/2019	04/08/2019	WG163019
Cobalt, Total	10	mg/L	.0218		.0005	.0005		04/05/2019	04/08/2019	WG163019
Copper, Total	10	mg/L	.00903		.002	.002	3	04/05/2019	04/08/2019	WG163019
Iron, Total	10	mg/L	5.25		.1	.1		04/05/2019	04/08/2019	WG163019
Lead, Total	10	mg/L	.0018		.001	.001	2	04/05/2019	04/08/2019	WG163019
Magnesium, Total	10	mg/L	42.9		.5	.5		04/05/2019	04/08/2019	WG163019
Manganese, Total	10	mg/L	.512		.001	.001		04/05/2019	04/08/2019	WG163019
Nickel, Total	10	mg/L	.089		.001	.001	2.5	04/05/2019	04/08/2019	WG163019
Phosphorus, Total	10	mg/L	3.38		1	1		04/05/2019	04/08/2019	WG163019
Potassium, Total	10	mg/L	265		1	1		04/05/2019	04/08/2019	WG163019
Selenium, Total	10	mg/L	<.005	U	.005	.005		04/05/2019	04/08/2019	WG163019
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	04/05/2019	04/08/2019	WG163019
Sodium, Total	10	mg/L	717		1	1		04/05/2019	04/08/2019	WG163019
Thallium, Total	10	mg/L	<.001	U	.001	.001		04/05/2019	04/08/2019	WG163019
Tin, Total	10	mg/L	.00832		.005	.005		04/05/2019	04/08/2019	WG163019
Vanadium, Total	10	mg/L	.0289		.00075	.00075		04/05/2019	04/08/2019	WG163019
Zinc, Total	10	mg/L	.217		.005	.005	5	04/05/2019	04/08/2019	WG163019
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/05/2019	04/08/2019	WG163029

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/16/2019
Report Group: CHLS-P_041719

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190409P
SDG/Lab Sample ID: 15105 / L72046-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 04/09/2019
LoginDate: 04/10/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/12/2019	04/15/2019	WG163158
Aluminum, Total	10	mg/L	.788		.05	.05		04/15/2019	04/15/2019	WG163173
Antimony, Total	10	mg/L	.0146		.003	.003		04/15/2019	04/15/2019	WG163173
Arsenic, Total	10	mg/L	.145		.0005	.0005	1	04/15/2019	04/15/2019	WG163173
Barium, Total	10	mg/L	.113		.005	.005		04/15/2019	04/15/2019	WG163173
Beryllium, Total	10	mg/L	<.001	U	.001	.001		04/15/2019	04/15/2019	WG163173
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	04/15/2019	04/15/2019	WG163173
Calcium, Total	10	mg/L	56.2		.5	.5		04/15/2019	04/15/2019	WG163173
Chromium, Total	10	mg/L	.109		.002	.002	2.75	04/15/2019	04/15/2019	WG163173
Cobalt, Total	10	mg/L	.0248		.0005	.0005		04/15/2019	04/15/2019	WG163173
Copper, Total	10	mg/L	.00922		.002	.002	3	04/15/2019	04/15/2019	WG163173
Iron, Total	10	mg/L	7.01		.1	.1		04/15/2019	04/15/2019	WG163173
Lead, Total	10	mg/L	.00211		.001	.001	2	04/15/2019	04/15/2019	WG163173
Magnesium, Total	10	mg/L	48.3		.5	.5		04/15/2019	04/15/2019	WG163173
Manganese, Total	10	mg/L	.526		.001	.001		04/15/2019	04/15/2019	WG163173
Nickel, Total	10	mg/L	.106		.001	.001	2.5	04/15/2019	04/15/2019	WG163173
Phosphorus, Total	10	mg/L	4.81		1	1		04/15/2019	04/15/2019	WG163173
Potassium, Total	10	mg/L	299		1	1		04/15/2019	04/15/2019	WG163173
Selenium, Total	10	mg/L	<.005	U	.005	.005		04/15/2019	04/15/2019	WG163173
Silver, Total	10	mg/L	<.0004	DU	.0004	.0004	1	04/15/2019	04/15/2019	WG163173
Sodium, Total	10	mg/L	843		1	1		04/15/2019	04/15/2019	WG163173
Thallium, Total	10	mg/L	<.001	U	.001	.001		04/15/2019	04/15/2019	WG163173
Tin, Total	10	mg/L	.0112		.005	.005		04/15/2019	04/15/2019	WG163173
Vanadium, Total	10	mg/L	.0353		.00075	.00075		04/15/2019	04/15/2019	WG163173
Zinc, Total	10	mg/L	.249		.005	.005	5	04/15/2019	04/15/2019	WG163173

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/24/2019
Report Group: CHLS-P_042519

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190417P
SDG/Lab Sample ID: 15116 / L72137-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 04/17/2019
LoginDate: 04/18/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.97		.05	.05		04/22/2019	04/23/2019	WG163321
Antimony, Total	10	mg/L	.0112		.003	.003		04/22/2019	04/23/2019	WG163321
Arsenic, Total	10	mg/L	.107		.0005	.0005	1	04/22/2019	04/23/2019	WG163321
Barium, Total	10	mg/L	.0906		.005	.005		04/22/2019	04/23/2019	WG163321
Beryllium, Total	10	mg/L	<.001	U	.001	.001		04/22/2019	04/23/2019	WG163321
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	04/22/2019	04/23/2019	WG163321
Calcium, Total	10	mg/L	49.4		.5	.5		04/22/2019	04/23/2019	WG163321
Chromium, Total	10	mg/L	.0749		.002	.002	2.75	04/22/2019	04/23/2019	WG163321
Cobalt, Total	10	mg/L	.0182		.0005	.0005		04/22/2019	04/23/2019	WG163321
Copper, Total	10	mg/L	.00877		.002	.002	3	04/22/2019	04/23/2019	WG163321
Iron, Total	10	mg/L	5.91		.1	.1		04/22/2019	04/23/2019	WG163321
Lead, Total	10	mg/L	.00201		.001	.001	2	04/22/2019	04/23/2019	WG163321
Magnesium, Total	10	mg/L	34.9		.5	.5		04/22/2019	04/23/2019	WG163321
Manganese, Total	10	mg/L	.536		.001	.001		04/22/2019	04/23/2019	WG163321
Nickel, Total	10	mg/L	.0761		.001	.001	2.5	04/22/2019	04/23/2019	WG163321
Phosphorus, Total	10	mg/L	3.49		1	1		04/22/2019	04/23/2019	WG163321
Potassium, Total	10	mg/L	216		1	1		04/22/2019	04/23/2019	WG163321
Selenium, Total	10	mg/L	<.005	U	.005	.005		04/22/2019	04/23/2019	WG163321
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	04/22/2019	04/23/2019	WG163321
Sodium, Total	10	mg/L	603		1	1		04/22/2019	04/23/2019	WG163321
Thallium, Total	10	mg/L	<.001	U	.001	.001		04/22/2019	04/23/2019	WG163321
Tin, Total	10	mg/L	.00777		.005	.005		04/22/2019	04/23/2019	WG163321
Vanadium, Total	10	mg/L	.0267		.00075	.00075		04/22/2019	04/23/2019	WG163321
Zinc, Total	10	mg/L	.195		.005	.005	5	04/22/2019	04/23/2019	WG163321
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/22/2019	04/23/2019	WG163330

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/01/2019
Report Group: CHLS-P_043019

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190423P
SDG/Lab Sample ID: 15119 / L72186-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 04/23/2019
LoginDate: 04/24/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.89		.05	.05		04/25/2019	04/29/2019	WG163381
Antimony, Total	10	mg/L	.00986		.003	.003		04/25/2019	04/29/2019	WG163381
Arsenic, Total	10	mg/L	.0913		.0005	.0005	1	04/25/2019	04/29/2019	WG163381
Barium, Total	10	mg/L	.08		.005	.005		04/25/2019	04/29/2019	WG163381
Beryllium, Total	10	mg/L	<.001	U	.001	.001		04/25/2019	04/29/2019	WG163381
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	04/25/2019	04/29/2019	WG163381
Calcium, Total	10	mg/L	45.7		.5	.5		04/25/2019	04/29/2019	WG163381
Chromium, Total	10	mg/L	.0623		.002	.002	2.75	04/25/2019	04/29/2019	WG163381
Cobalt, Total	10	mg/L	.0158		.0005	.0005		04/25/2019	04/29/2019	WG163381
Copper, Total	10	mg/L	.021		.002	.002	3	04/25/2019	04/29/2019	WG163381
Iron, Total	10	mg/L	4.99		.1	.1		04/25/2019	04/29/2019	WG163381
Lead, Total	10	mg/L	.00224		.001	.001	2	04/25/2019	04/29/2019	WG163381
Magnesium, Total	10	mg/L	28.9		.5	.5		04/25/2019	04/29/2019	WG163381
Manganese, Total	10	mg/L	.493		.001	.001		04/25/2019	04/29/2019	WG163381
Nickel, Total	10	mg/L	.0619		.001	.001	2.5	04/25/2019	04/29/2019	WG163381
Phosphorus, Total	10	mg/L	2.75		1	1		04/25/2019	04/29/2019	WG163381
Potassium, Total	10	mg/L	176		1	1		04/25/2019	04/29/2019	WG163381
Selenium, Total	10	mg/L	<.005	U	.005	.005		04/25/2019	04/29/2019	WG163381
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	04/25/2019	04/29/2019	WG163381
Sodium, Total	10	mg/L	487		1	1		04/25/2019	04/29/2019	WG163381
Thallium, Total	10	mg/L	<.001	U	.001	.001		04/25/2019	04/29/2019	WG163381
Tin, Total	10	mg/L	<.005	U	.005	.005		04/25/2019	04/29/2019	WG163381
Vanadium, Total	10	mg/L	.0231		.00075	.00075		04/25/2019	04/29/2019	WG163381
Zinc, Total	10	mg/L	.192		.005	.005	5	04/25/2019	04/29/2019	WG163381
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/26/2019	04/29/2019	WG163405

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	3/29/19 @13:13
Sample Count	Interval Time (sec)	Bump Test Date
25622	30	3/29/19 @09:12
H2S Readings		
Date	Daily Max	Daily Average
4/2/2019	0.0	0.0
4/3/2019	0.0	0.0
4/4/2019	0.0	0.0
4/5/2019	0.0	0.0
4/6/2019	0.0	0.0
4/7/2019	0.0	0.0
4/8/2019	0.0	0.0
4/9/2019	0.0	0.0
4/10/2019	0.0	0.0
4/11/2019	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: APRIL
YEAR: 2019

DATE	BRIGHT		DUVALL		SPOK.		VASHON		HOBART		OTHER		REMARKS
	6000	7000	C.H.	7000	6000	7000	6000	C.H.	7000	6000	C.H.	7000	
LOAD													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
TOTAL	6000	28000.00	0	0.00	0	0.00	0	77000.00	0	0.00	0	0.00	



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

June 14, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of May 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 5/2/19, 5/8/19, 5/14/19, 5/21/19 and 5/30/19.)
- Atmospheric Hydrogen Sulfide at A9002 (for 5/8/19-5/17/19)
- Leachate Hauling Report (for May)

Two arsenic exceedances occurred during the month of May (5/21 and 5/30). KCIW was notified of these exceedances on 5/30 and 6/7, respectively. Details of the exceedances were provided in a *14 Day Report* submitted on 6/13.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: MAY 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH		Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
		LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD			
1														
2	C	8.57	0.0902	0.1588	<0.0005	0.0004	0.1085	0.0616	0.1085	0.0189	0.0333	<0.1 ppm	211,100	
3													925,800	
4													0	
5													215,000	
6													200,500	
7													209,000	
8	C	8.61	0.108	0.2182	<0.0005	0.0005	0.1515	0.075	0.1515	0.0119	0.02404	<0.1 ppm	242,200	
9													210,300	
10													199,500	
11													209,300	
12													208,900	
13													213,700	
14	C	8.44	0.127	0.2289	<0.0005	0.00045	0.1514	0.084	0.1514	0.00869	0.01566	<0.1 ppm	216,100	
15													248,300	
16													992,700	
17													943,200	
18													196,200	
19													0	
20													212,100	
21	C	8.50	0.156	0.2795	<0.0005	0.0005	0.1698	0.0948	0.1698	0.00847	0.0152	<0.1 ppm	214,800	
22													185,900	
23													219,800	
24													1,001,000	
25													241,500	
26													160,200	
27													204,300	
28													0	
29													107,700	
30	C	8.52	0.17	0.29986	<0.0005	0.0004	0.185	0.105	0.185	0.00666	0.01175	<0.1 ppm	211,500	
31													237,700	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal/Executive or Authorized Agent _____
Date 6/14/19

Monthly Min pH	8.44	5/14/19	Total Monthly Flow (gallons)	8,638,300
Monthly Max pH	8.61	5/8/19	Maximum Daily Flow	1,001,000

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

5/24/19



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

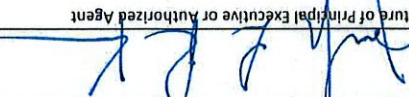
Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: MAY 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2	C	0.00187	0.00329	<0.0001	0.000088	0.0714	0.1257	<0.0004	0.00035	0.206	0.363	
3												
4												
5												
6												
7												
8	C	0.00165	0.00333	<0.0001	0.0001	0.0791	0.1598	<0.0004	0.0004	0.172	0.347	
9												
10												
11												
12												
13												
14	C	0.00152	0.00274	<0.0001	0.00009	0.0872	0.15716	<0.0004	0.0004	0.159	0.2866	
15												
16												
17												
18												
19												
20												
21	C	0.00161	0.00288	<0.0001	0.00009	0.0992	0.1777	<0.0004	0.0004	0.187	0.335	
22												
23												
24												
25												
26												
27												
28												
29												
30	C	0.0015	0.002645	<0.0001	0.000088	0.107	0.189	<0.0004	0.0004	0.144	0.254	
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: 
Date: 10/14/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



King County

Industrial Waste Program Monthly Self-Monitoring Report

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: Month: MAY 2019 This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)
1			
2			
3			
4			
5			
6			
7			
8	0.0	0.0	Y
9	2.5	0.007986111	Y
10	4.0	0.026215278	Y
11	4.0	0.048611111	Y
12	5.0	0.054687500	Y
13	6.5	0.040625000	Y
14	3.0	0.005208333	Y
15	5.0	0.027083333	Y
16	3.5	0.022222222	Y
17	0.0	0.0	Y
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

Monthly MAX	6.5
Monthly AVG	0.023263888

5/13/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent
Date 6/14/19

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/09/2019
Report Group: CHLS-P_050919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190502P
SDG/Lab Sample ID: 15120 / L72214-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 05/02/2019
LoginDate: 05/02/2019
Matrix: LEACHATE

Constituent	Metals									
	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.655		.05	.05		05/06/2019	05/07/2019	WG163505
Antimony, Total	10	mg/L	.0101		.003	.003		05/06/2019	05/07/2019	WG163505
Arsenic, Total	10	mg/L	.0902	D	.0005	.0005	1	05/06/2019	05/07/2019	WG163505
Barium, Total	10	mg/L	.0854		.005	.005		05/06/2019	05/07/2019	WG163505
Beryllium, Total	10	mg/L	<.001	U	.001	.001		05/06/2019	05/07/2019	WG163505
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	05/06/2019	05/07/2019	WG163505
Calcium, Total	10	mg/L	61.4		.5	.5		05/06/2019	05/07/2019	WG163505
Chromium, Total	10	mg/L	.0616		.002	.002	2.75	05/06/2019	05/07/2019	WG163505
Cobalt, Total	10	mg/L	.0165		.0005	.0005		05/06/2019	05/07/2019	WG163505
Copper, Total	10	mg/L	.0189		.002	.002	3	05/06/2019	05/07/2019	WG163505
Iron, Total	10	mg/L	5.26		.1	.1		05/06/2019	05/07/2019	WG163505
Lead, Total	10	mg/L	.00187		.001	.001	2	05/06/2019	05/07/2019	WG163505
Magnesium, Total	10	mg/L	31.9		.5	.5		05/06/2019	05/07/2019	WG163505
Manganese, Total	10	mg/L	.577		.001	.001		05/06/2019	05/07/2019	WG163505
Nickel, Total	10	mg/L	.0714		.001	.001	2.5	05/06/2019	05/07/2019	WG163505
Phosphorus, Total	10	mg/L	2.94		1	1		05/06/2019	05/07/2019	WG163505
Potassium, Total	10	mg/L	185		1	1		05/06/2019	05/07/2019	WG163505
Selenium, Total	10	mg/L	<.005	U	.005	.005		05/06/2019	05/07/2019	WG163505
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	05/06/2019	05/07/2019	WG163505
Sodium, Total	10	mg/L	512		1	1		05/06/2019	05/07/2019	WG163505
Thallium, Total	10	mg/L	<.001	U	.001	.001		05/06/2019	05/07/2019	WG163505
Tin, Total	10	mg/L	.00674		.005	.005		05/06/2019	05/07/2019	WG163505
Vanadium, Total	10	mg/L	.0228		.00075	.00075		05/06/2019	05/07/2019	WG163505
Zinc, Total	10	mg/L	.206	D	.005	.005	5	05/06/2019	05/07/2019	WG163505
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/06/2019	05/07/2019	WG163512

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/15/2019
Report Group: CHLS-P_051519

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190508P
SDG/Lab Sample ID: 15156 / L72280-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 05/08/2019
LoginDate: 05/09/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.262		.05	.05		05/13/2019	05/14/2019	WG163622
Antimony, Total	10	mg/L	.0115		.003	.003		05/13/2019	05/14/2019	WG163622
Arsenic, Total	10	mg/L	.108		.0005	.0005	1	05/13/2019	05/14/2019	WG163622
Barium, Total	10	mg/L	.082		.005	.005		05/13/2019	05/14/2019	WG163622
Beryllium, Total	10	mg/L	<.001	U	.001	.001		05/13/2019	05/14/2019	WG163622
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	05/13/2019	05/14/2019	WG163622
Calcium, Total	10	mg/L	59		.5	.5		05/13/2019	05/14/2019	WG163622
Chromium, Total	10	mg/L	.075		.002	.002	2.75	05/13/2019	05/14/2019	WG163622
Cobalt, Total	10	mg/L	.0178		.0005	.0005		05/13/2019	05/14/2019	WG163622
Copper, Total	10	mg/L	.0119		.002	.002	3	05/13/2019	05/14/2019	WG163622
Iron, Total	10	mg/L	4.98		.1	.1		05/13/2019	05/14/2019	WG163622
Lead, Total	10	mg/L	.00165		.001	.001	2	05/13/2019	05/14/2019	WG163622
Magnesium, Total	10	mg/L	38.6		.5	.5		05/13/2019	05/14/2019	WG163622
Manganese, Total	10	mg/L	.428		.001	.001		05/13/2019	05/14/2019	WG163622
Nickel, Total	10	mg/L	.0791		.001	.001	2.5	05/13/2019	05/14/2019	WG163622
Phosphorus, Total	10	mg/L	2.36		1	1		05/13/2019	05/14/2019	WG163622
Potassium, Total	10	mg/L	216		1	1		05/13/2019	05/14/2019	WG163622
Selenium, Total	10	mg/L	<.005	U	.005	.005		05/13/2019	05/14/2019	WG163622
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	05/13/2019	05/14/2019	WG163622
Sodium, Total	10	mg/L	594		1	1		05/13/2019	05/14/2019	WG163622
Thallium, Total	10	mg/L	<.001	U	.001	.001		05/13/2019	05/14/2019	WG163622
Tin, Total	10	mg/L	.0109		.005	.005		05/13/2019	05/14/2019	WG163622
Vanadium, Total	10	mg/L	.0251		.00075	.00075		05/13/2019	05/14/2019	WG163622
Zinc, Total	10	mg/L	.172		.005	.005	5	05/13/2019	05/14/2019	WG163622
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/13/2019	05/14/2019	WG163633

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/21/2019
Report Group: CHLS-P_052119

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190514P
SDG/Lab Sample ID: 15162 / L72380-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 05/14/2019
LoginDate: 05/14/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.242		.05	.05		05/16/2019	05/17/2019	WG163687
Antimony, Total	10	mg/L	.0131		.003	.003		05/16/2019	05/17/2019	WG163687
Arsenic, Total	10	mg/L	.127		.0005	.0005	1	05/16/2019	05/17/2019	WG163687
Barium, Total	10	mg/L	.0853		.005	.005		05/16/2019	05/17/2019	WG163687
Beryllium, Total	10	mg/L	<.001	U	.001	.001		05/16/2019	05/17/2019	WG163687
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	05/16/2019	05/17/2019	WG163687
Calcium, Total	10	mg/L	56.6		.5	.5		05/16/2019	05/17/2019	WG163687
Chromium, Total	10	mg/L	.084		.002	.002	2.75	05/16/2019	05/17/2019	WG163687
Cobalt, Total	10	mg/L	.0196		.0005	.0005		05/16/2019	05/17/2019	WG163687
Copper, Total	10	mg/L	.00869		.002	.002	3	05/16/2019	05/17/2019	WG163687
Iron, Total	10	mg/L	5.07		.1	.1		05/16/2019	05/17/2019	WG163687
Lead, Total	10	mg/L	.00152		.001	.001	2	05/16/2019	05/17/2019	WG163687
Magnesium, Total	10	mg/L	42		.5	.5		05/16/2019	05/17/2019	WG163687
Manganese, Total	10	mg/L	.379		.001	.001		05/16/2019	05/17/2019	WG163687
Nickel, Total	10	mg/L	.0872		.001	.001	2.5	05/16/2019	05/17/2019	WG163687
Phosphorus, Total	10	mg/L	2.73		1	1		05/16/2019	05/17/2019	WG163687
Potassium, Total	10	mg/L	245		1	1		05/16/2019	05/17/2019	WG163687
Selenium, Total	10	mg/L	<.005	U	.005	.005		05/16/2019	05/17/2019	WG163687
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	05/16/2019	05/17/2019	WG163687
Sodium, Total	10	mg/L	672		1	1		05/16/2019	05/17/2019	WG163687
Thallium, Total	10	mg/L	<.001	U	.001	.001		05/16/2019	05/17/2019	WG163687
Tin, Total	10	mg/L	.00991		.005	.005		05/16/2019	05/17/2019	WG163687
Vanadium, Total	10	mg/L	.0278		.00075	.00075		05/16/2019	05/17/2019	WG163687
Zinc, Total	10	mg/L	.159		.005	.005	5	05/16/2019	05/17/2019	WG163687
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/16/2019	05/17/2019	WG163732

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/29/2019
Report Group: CHLS-P_052919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190521P
SDG/Lab Sample ID: 15130 / L72321-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 05/21/2019
LoginDate: 05/22/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/24/2019	05/28/2019	WG163894
Aluminum, Total	10	mg/L	.429		.05	.05		05/29/2019	05/29/2019	WG163916
Antimony, Total	10	mg/L	.0144		.003	.003		05/29/2019	05/29/2019	WG163916
Arsenic, Total	10	mg/L	.156		.0005	.0005	1	05/29/2019	05/29/2019	WG163916
Barium, Total	10	mg/L	.101		.005	.005		05/29/2019	05/29/2019	WG163916
Beryllium, Total	10	mg/L	<.001	U	.001	.001		05/29/2019	05/29/2019	WG163916
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	05/29/2019	05/29/2019	WG163916
Calcium, Total	10	mg/L	55.1		.5	.5		05/29/2019	05/29/2019	WG163916
Chromium, Total	10	mg/L	.0948		.002	.002	2.75	05/29/2019	05/29/2019	WG163916
Cobalt, Total	10	mg/L	.0235		.0005	.0005		05/29/2019	05/29/2019	WG163916
Copper, Total	10	mg/L	.00847		.002	.002	3	05/29/2019	05/29/2019	WG163916
Iron, Total	10	mg/L	5.22		.1	.1		05/29/2019	05/29/2019	WG163916
Lead, Total	10	mg/L	.00161		.001	.001	2	05/29/2019	05/29/2019	WG163916
Magnesium, Total	10	mg/L	47.2		.5	.5		05/29/2019	05/29/2019	WG163916
Manganese, Total	10	mg/L	.383		.001	.001		05/29/2019	05/29/2019	WG163916
Nickel, Total	10	mg/L	.0992		.001	.001	2.5	05/29/2019	05/29/2019	WG163916
Phosphorus, Total	10	mg/L	4.03		1	1		05/29/2019	05/29/2019	WG163916
Potassium, Total	10	mg/L	283		1	1		05/29/2019	05/29/2019	WG163916
Selenium, Total	10	mg/L	<.005	U	.005	.005		05/29/2019	05/29/2019	WG163916
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	05/29/2019	05/29/2019	WG163916
Sodium, Total	10	mg/L	792		1	1		05/29/2019	05/29/2019	WG163916
Thallium, Total	10	mg/L	<.001	U	.001	.001		05/29/2019	05/29/2019	WG163916
Tin, Total	10	mg/L	.0117		.005	.005		05/29/2019	05/29/2019	WG163916
Vanadium, Total	10	mg/L	.0337		.00075	.00075		05/29/2019	05/29/2019	WG163916
Zinc, Total	10	mg/L	.187		.005	.005	5	05/29/2019	05/29/2019	WG163916

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/05/2019
Report Group: CHLS-P_060619

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190530P
SDG/Lab Sample ID: 15172 / L72369-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 05/30/2019
LoginDate: 05/30/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.373		.05	.05		06/03/2019	06/03/2019	WG163997
Antimony, Total	10	mg/L	.0156		.003	.003		06/03/2019	06/03/2019	WG163997
Arsenic, Total	10	mg/L	.17		.0005	.0005	1	06/03/2019	06/03/2019	WG163997
Barium, Total	10	mg/L	.0962		.005	.005		06/03/2019	06/03/2019	WG163997
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/03/2019	06/03/2019	WG163997
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/03/2019	06/03/2019	WG163997
Calcium, Total	10	mg/L	51.5		.5	.5		06/03/2019	06/03/2019	WG163997
Chromium, Total	10	mg/L	.105		.002	.002	2.75	06/03/2019	06/03/2019	WG163997
Cobalt, Total	10	mg/L	.0241		.0005	.0005		06/03/2019	06/03/2019	WG163997
Copper, Total	10	mg/L	.00666		.002	.002	3	06/03/2019	06/03/2019	WG163997
Iron, Total	10	mg/L	5.03		.1	.1		06/03/2019	06/03/2019	WG163997
Lead, Total	10	mg/L	.0015		.001	.001	2	06/03/2019	06/03/2019	WG163997
Magnesium, Total	10	mg/L	49.4		.5	.5		06/03/2019	06/03/2019	WG163997
Manganese, Total	10	mg/L	.298		.001	.001		06/03/2019	06/03/2019	WG163997
Nickel, Total	10	mg/L	.107		.001	.001	2.5	06/03/2019	06/03/2019	WG163997
Phosphorus, Total	10	mg/L	4.43		1	1		06/03/2019	06/03/2019	WG163997
Potassium, Total	10	mg/L	310		1	1		06/03/2019	06/03/2019	WG163997
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/03/2019	06/03/2019	WG163997
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/03/2019	06/03/2019	WG163997
Sodium, Total	10	mg/L	766		1	1		06/03/2019	06/03/2019	WG163997
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/03/2019	06/03/2019	WG163997
Tin, Total	10	mg/L	.0148		.005	.005		06/03/2019	06/03/2019	WG163997
Vanadium, Total	10	mg/L	.0357		.00075	.00075		06/03/2019	06/03/2019	WG163997
Zinc, Total	10	mg/L	.144		.005	.005	5	06/03/2019	06/03/2019	WG163997
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/03/2019	06/05/2019	WG164008

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	3/29/19 @ 13:13
Sample Count	Interval Time (sec)	Bump Test Date
26186	30	4/19/19 @ 14:21
H2S Readings		
Date	Daily Max	Daily Average
5/8/2019	0.0	0.0
5/9/2019	2.5	0.007986111
5/10/2019	4.0	0.026215278
5/11/2019	4.0	0.048611111
5/12/2019	5.0	0.054687500
5/13/2019	6.5	0.040625000
5/14/2019	3.0	0.005208333
5/15/2019	5.0	0.027083333
5/16/2019	3.5	0.022222222
5/17/2019	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MAY
YEAR: 2019

DATE LOAD	BRIGHT			DUVALL			SPOK			VASHON			HOBART			OTHER			REMARKS
	6000	7000		6000	7000	C.H.	6000	7000	SPOK	6000	7000	C.H.	6000	7000	C.H.	6000	7000	C.H.	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9			2.00																
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0	14000.00		0	0.00		0	0.00		0	0.00		0	0.00		0	0.00		



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

July 15, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of June 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 6/4/19, 6/11/19, 6/18/19, 6/26/19).
- Atmospheric Hydrogen Sulfide at A9002 (for 6/4/19-6/14/19 and 6/19/19-6/27/19)
- Leachate Hauling Report (for June)

Two arsenic loading exceedances occurred during the month of June (6/4 and 6/11). KCIW was notified of these exceedances on 6/13 and 6/25, respectively. Two atmospheric hydrogen sulfide exceedances occurred during the month of June (6/6 and 6/22.) KCIW was notified of these exceedances on 6/14 and 6/27, respectively. Details of these exceedances were provided in a *14 Day Report* submitted on 6/28.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: JUNE 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides	Daily Industrial Flow	Notes (Indicate Batch Discharge where applicable)
			LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT - 0.1	2,700,000 (GPD)	
1												211,500	
2												212,400	
3												355,600	
4	C	8.57	0.183	0.326	<0.0005	0.000445	0.118	0.2102	0.00639	0.01138	<0.1 ppm	213,600	
5												0	
6												205,700	
7												211,200	
8												0	
9												0	
10												0	
11	C	8.54	0.211	0.2735	<0.0005	0.0003	0.134	0.174	0.0075	0.0097	<0.1 ppm	155,400	
12												160,400	
13												163,200	
14												810,200	
15												107,700	
16												108,500	
17												112,800	
18	C	8.49	0.225	0.211	<0.0005	0.0002	0.127	0.119	0.0052	0.0049	<0.1 ppm	112,400	
19												114,200	
20												106,700	
21												107,000	
22												0	
23												278,700	
24												94,700	
25												117,200	
26	C	8.67	0.243	0.227	<0.0005	0.0002	0.144	0.135	0.00563	0.00526	<0.1 ppm	112,000	
27												108,400	
28												110,200	
29												132,000	
30												109,300	
31												N/A	
Total Monthly Flow (gallons)											4,531,000		
Maximum Daily Flow											810,200		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent
Date 7/15/19

6/14/19

6/18/19
6/26/19

Monthly Min pH 8.49
Monthly Max pH 8.67

PLEASE CIRCLE ALL PERMIT VIOLATIONS Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

King County

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: JUNE 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	
1												
2												
3												
4	C	0.00159	0.00283	<0.0001	8.90E-05	0.11	0.196	<0.0004	0.0004	0.161	0.287	
5												
6												
7												
8												
9												
10												
11	C	0.00207	0.00268	<0.0001	6.48E-05	0.128	0.166	<0.0004	0.0003	0.173	0.224	
12												
13												
14												
15												
16												
17												
18	C	0.00152	0.00142	<0.0001	4.69E-05	0.135	0.127	<0.0004	0.0002	0.135	0.127	
19												
20												
21												
22												
23												
24												
25												
26	C	0.00163	0.00152	<0.0001	0.00005	0.144	0.135	<0.0004	0.0002	0.151	0.141	
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: *[Signature]* Date: 7/15/19

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS



King County

Industrial Waste Program Monthly Self-Monitoring Report

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: JUNE 2019 Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4	0.0	0.0	Y	
5	0.0	0.0	N	
6	11.5	0.077777778	Y	
7	5.5	0.029166667	Y	
8	0.0	0.0	N	
9	0.0	0.0	N	
10	0.0	0.0	N	
11	8.0	0.034027778	Y	
12	7.0	0.044618056	Y	
13	3.5	0.0	Y	
14	4.5	0.057680989	Y	
15				
16				
17				
18				
19	0.0	0.0	Y	
20	6.5	0.051215278	N	
21	5.0	0.022916667	N	
22	10.5	0.172222222	N	
23	5.5	0.115277778	Y	
24	2.5	0.005555556	N	
25	3.5	0.021527778	Y	
26	6.0	0.033680556	N	
27	5.0	0.060384871	N	
28				
29				
30				
31				

6/6/19

Monthly MAX 11.5
Monthly AVG 0.036302599

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

6/6/19 exceedance: The data recorded with the RKI Eagle 2 gas monitor was cross-referenced with pump hours provided by the SWD wastewater (WW) crew. This exceedance did occur during active discharge.

Resample -- 6/22/19 exceedance: This data was also collected with the RKI Eagle 2 gas monitor and cross-referenced with pump hours recorded by the WW crew.

SWD pumped from 4:30-5:30 AM. The exceedance was recorded for a period of 30 seconds at 6:19 AM, which is almost an hour after the WW crew had turned the pumps off. Given that the landfill is not the only wastewater input at site no. A90021, SWD is unable to definitively conclude that discharges from the landfill caused the exceedance observed on June 22, 2019.

7/15/19

Signature of Principal Executive or Authorized Agent

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/12/2019
Report Group: CHLS-P_061219

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190604P
SDG/Lab Sample ID: 15176 / L72447-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/04/2019
LoginDate: 06/05/2019
Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.409		.05	.05		06/06/2019	06/10/2019	WG164081
Antimony, Total	10	mg/L	.0161		.003	.003		06/06/2019	06/10/2019	WG164081
Arsenic, Total	10	mg/L	.183		.0005	.0005	1	06/06/2019	06/10/2019	WG164081
Barium, Total	10	mg/L	.11		.005	.005		06/06/2019	06/10/2019	WG164081
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/06/2019	06/10/2019	WG164081
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/06/2019	06/10/2019	WG164081
Calcium, Total	10	mg/L	53.2		.5	.5		06/06/2019	06/10/2019	WG164081
Chromium, Total	10	mg/L	.118		.002	.002	2.75	06/06/2019	06/10/2019	WG164081
Cobalt, Total	10	mg/L	.0252		.0005	.0005		06/06/2019	06/10/2019	WG164081
Copper, Total	10	mg/L	.00639		.002	.002	3	06/06/2019	06/10/2019	WG164081
Iron, Total	10	mg/L	5.03		.1	.1		06/06/2019	06/10/2019	WG164081
Lead, Total	10	mg/L	.00159		.001	.001	2	06/06/2019	06/10/2019	WG164081
Magnesium, Total	10	mg/L	49.6		.5	.5		06/06/2019	06/10/2019	WG164081
Manganese, Total	10	mg/L	.335		.001	.001		06/06/2019	06/10/2019	WG164081
Nickel, Total	10	mg/L	.11		.001	.001	2.5	06/06/2019	06/10/2019	WG164081
Phosphorus, Total	10	mg/L	4.6		1	1		06/06/2019	06/10/2019	WG164081
Potassium, Total	10	mg/L	321		1	1		06/06/2019	06/10/2019	WG164081
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/06/2019	06/10/2019	WG164081
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/06/2019	06/10/2019	WG164081
Sodium, Total	10	mg/L	891		1	1		06/06/2019	06/10/2019	WG164081
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/06/2019	06/10/2019	WG164081
Tin, Total	10	mg/L	.0122		.005	.005		06/06/2019	06/10/2019	WG164081
Vanadium, Total	10	mg/L	.0375		.00075	.00075		06/06/2019	06/10/2019	WG164081
Zinc, Total	10	mg/L	.161		.005	.005	5	06/06/2019	06/10/2019	WG164081
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/10/2019	06/11/2019	WG164165

Client Sample ID: LEPS190604D
SDG/Lab Sample ID: 15176 / L72447-2
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/04/2019
LoginDate: 06/05/2019
Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.409		.05	.05		06/06/2019	06/10/2019	WG164081
Antimony, Total	10	mg/L	.0165		.003	.003		06/06/2019	06/10/2019	WG164081
Arsenic, Total	10	mg/L	.183		.0005	.0005	1	06/06/2019	06/10/2019	WG164081
Barium, Total	10	mg/L	.112		.005	.005		06/06/2019	06/10/2019	WG164081
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/06/2019	06/10/2019	WG164081
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/06/2019	06/10/2019	WG164081
Calcium, Total	10	mg/L	54.6		.5	.5		06/06/2019	06/10/2019	WG164081
Chromium, Total	10	mg/L	.114		.002	.002	2.75	06/06/2019	06/10/2019	WG164081
Cobalt, Total	10	mg/L	.025		.0005	.0005		06/06/2019	06/10/2019	WG164081
Copper, Total	10	mg/L	.00644		.002	.002	3	06/06/2019	06/10/2019	WG164081
Iron, Total	10	mg/L	5.11		.1	.1		06/06/2019	06/10/2019	WG164081
Lead, Total	10	mg/L	.00158		.001	.001	2	06/06/2019	06/10/2019	WG164081
Magnesium, Total	10	mg/L	50.1		.5	.5		06/06/2019	06/10/2019	WG164081
Manganese, Total	10	mg/L	.339		.001	.001		06/06/2019	06/10/2019	WG164081

Client Sample ID: LEPS190604D
 SDG/Lab Sample ID: 15176 / L72447-2
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/04/2019
 LoginDate: 06/05/2019
 Matrix: LEACHATE

Constituent	Metals									
	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Nickel, Total	10	mg/L	.109		.001	.001	2.5	06/06/2019	06/10/2019	WG164081
Phosphorus, Total	10	mg/L	4.92		1	1		06/06/2019	06/10/2019	WG164081
Potassium, Total	10	mg/L	329		1	1		06/06/2019	06/10/2019	WG164081
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/06/2019	06/10/2019	WG164081
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/06/2019	06/10/2019	WG164081
Sodium, Total	10	mg/L	905		1	1		06/06/2019	06/10/2019	WG164081
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/06/2019	06/10/2019	WG164081
Tin, Total	10	mg/L	.0131		.005	.005		06/06/2019	06/10/2019	WG164081
Vanadium, Total	10	mg/L	.0379		.00075	.00075		06/06/2019	06/10/2019	WG164081
Zinc, Total	10	mg/L	.159		.005	.005	5	06/06/2019	06/10/2019	WG164081
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/10/2019	06/11/2019	WG164165

Target Parameter Count for SDG: 50

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/25/2019
Report Group: CHLS-P_061919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190611P
SDG/Lab Sample ID: 15184 / L72361-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/11/2019
LoginDate: 06/12/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.566		.05	.05		06/20/2019	06/20/2019	WG164274
Antimony, Total	10	mg/L	.0189		.003	.003		06/20/2019	06/20/2019	WG164274
Arsenic, Total	10	mg/L	.211		.0005	.0005	1	06/20/2019	06/20/2019	WG164274
Barium, Total	10	mg/L	.118		.005	.005		06/20/2019	06/20/2019	WG164274
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/20/2019	06/20/2019	WG164274
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/20/2019	06/20/2019	WG164274
Calcium, Total	10	mg/L	58.9		.5	.5		06/20/2019	06/20/2019	WG164274
Chromium, Total	10	mg/L	.134		.002	.002	2.75	06/20/2019	06/20/2019	WG164274
Cobalt, Total	10	mg/L	.0295		.0005	.0005		06/20/2019	06/20/2019	WG164274
Copper, Total	10	mg/L	.0075		.002	.002	3	06/20/2019	06/20/2019	WG164274
Iron, Total	10	mg/L	5.71		.1	.1		06/20/2019	06/20/2019	WG164274
Lead, Total	10	mg/L	.00207		.001	.001	2	06/20/2019	06/20/2019	WG164274
Magnesium, Total	10	mg/L	57.2		.5	.5		06/20/2019	06/20/2019	WG164274
Manganese, Total	10	mg/L	.374		.001	.001		06/20/2019	06/20/2019	WG164274
Nickel, Total	10	mg/L	.128		.001	.001	2.5	06/20/2019	06/20/2019	WG164274
Phosphorus, Total	10	mg/L	6.27		1	1		06/20/2019	06/20/2019	WG164274
Potassium, Total	10	mg/L	369		1	1		06/20/2019	06/20/2019	WG164274
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/20/2019	06/20/2019	WG164274
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/20/2019	06/20/2019	WG164274
Sodium, Total	10	mg/L	1040		1	1		06/20/2019	06/20/2019	WG164274
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/20/2019	06/20/2019	WG164274
Tin, Total	10	mg/L	.0164		.005	.005		06/20/2019	06/20/2019	WG164274
Vanadium, Total	10	mg/L	.0428		.00075	.00075		06/20/2019	06/20/2019	WG164274
Zinc, Total	10	mg/L	.173		.005	.005	5	06/20/2019	06/20/2019	WG164274
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/14/2019	06/17/2019	WG164289

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/26/2019
Report Group: CHLS-P_062619

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190618P
SDG/Lab Sample ID: 14861 / L72575-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/18/2019
LoginDate: 06/19/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/21/2019	06/24/2019	WG164464
Aluminum, Total	10	mg/L	.368		.05	.05		06/24/2019	06/24/2019	WG164470
Antimony, Total	10	mg/L	.0179		.003	.003		06/24/2019	06/24/2019	WG164470
Arsenic, Total	10	mg/L	.225		.0005	.0005	1	06/24/2019	06/24/2019	WG164470
Barium, Total	10	mg/L	.124		.005	.005		06/24/2019	06/24/2019	WG164470
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/24/2019	06/24/2019	WG164470
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/24/2019	06/24/2019	WG164470
Calcium, Total	10	mg/L	57.5		.5	.5		06/24/2019	06/24/2019	WG164470
Chromium, Total	10	mg/L	.127		.002	.002	2.75	06/24/2019	06/24/2019	WG164470
Cobalt, Total	10	mg/L	.0297		.0005	.0005		06/24/2019	06/24/2019	WG164470
Copper, Total	10	mg/L	.0052		.002	.002	3	06/24/2019	06/24/2019	WG164470
Iron, Total	10	mg/L	5.13		.1	.1		06/24/2019	06/24/2019	WG164470
Lead, Total	10	mg/L	.00152		.001	.001	2	06/24/2019	06/24/2019	WG164470
Magnesium, Total	10	mg/L	58.3		.5	.5		06/24/2019	06/24/2019	WG164470
Manganese, Total	10	mg/L	.325		.001	.001		06/24/2019	06/24/2019	WG164470
Nickel, Total	10	mg/L	.135		.001	.001	2.5	06/24/2019	06/24/2019	WG164470
Phosphorus, Total	10	mg/L	5.53		1	1		06/24/2019	06/24/2019	WG164470
Potassium, Total	10	mg/L	399		1	1		06/24/2019	06/24/2019	WG164470
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/24/2019	06/24/2019	WG164470
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/24/2019	06/24/2019	WG164470
Sodium, Total	10	mg/L	1110		1	1		06/24/2019	06/24/2019	WG164470
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/24/2019	06/24/2019	WG164470
Tin, Total	10	mg/L	.0137		.005	.005		06/24/2019	06/24/2019	WG164470
Vanadium, Total	10	mg/L	.0436		.00075	.00075		06/24/2019	06/24/2019	WG164470
Zinc, Total	10	mg/L	.135		.005	.005	5	06/24/2019	06/24/2019	WG164470

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 07/03/2019
Report Group: CHLS-P_070319

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190626P
SDG/Lab Sample ID: 14867 / L72588-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 06/26/2019
LoginDate: 06/26/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.422		.05	.05		06/28/2019	07/01/2019	WG164554
Antimony, Total	10	mg/L	.0203		.003	.003		06/28/2019	07/01/2019	WG164554
Arsenic, Total	10	mg/L	.243		.0005	.0005	1	06/28/2019	07/01/2019	WG164554
Barium, Total	10	mg/L	.135		.005	.005		06/28/2019	07/01/2019	WG164554
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/28/2019	07/01/2019	WG164554
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/28/2019	07/01/2019	WG164554
Calcium, Total	10	mg/L	56.9		.5	.5		06/28/2019	07/01/2019	WG164554
Chromium, Total	10	mg/L	.144		.002	.002	2.75	06/28/2019	07/01/2019	WG164554
Cobalt, Total	10	mg/L	.0328		.0005	.0005		06/28/2019	07/01/2019	WG164554
Copper, Total	10	mg/L	.00563		.002	.002	3	06/28/2019	07/01/2019	WG164554
Iron, Total	10	mg/L	5.29		.1	.1		06/28/2019	07/01/2019	WG164554
Lead, Total	10	mg/L	.00163		.001	.001	2	06/28/2019	07/01/2019	WG164554
Magnesium, Total	10	mg/L	63.1		.5	.5		06/28/2019	07/01/2019	WG164554
Manganese, Total	10	mg/L	.356		.001	.001		06/28/2019	07/01/2019	WG164554
Nickel, Total	10	mg/L	.144		.001	.001	2.5	06/28/2019	07/01/2019	WG164554
Phosphorus, Total	10	mg/L	6.28		1	1		06/28/2019	07/01/2019	WG164554
Potassium, Total	10	mg/L	429		1	1		06/28/2019	07/01/2019	WG164554
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/28/2019	07/01/2019	WG164554
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/28/2019	07/01/2019	WG164554
Sodium, Total	10	mg/L	1190		1	1		06/28/2019	07/01/2019	WG164554
Thallium, Total	10	mg/L	<.001	DU	.001	.001		06/28/2019	07/01/2019	WG164554
Tin, Total	10	mg/L	.0162		.005	.005		06/28/2019	07/01/2019	WG164554
Vanadium, Total	10	mg/L	.05		.00075	.00075		06/28/2019	07/01/2019	WG164554
Zinc, Total	10	mg/L	.151		.005	.005	5	06/28/2019	07/01/2019	WG164554
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/01/2019	07/02/2019	WG164615

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	3/29/19 @ 13:13
Sample Count	Interval Time (sec)	Bump Test Date
29074	30	6/04/19 @ 11:51
H2S Readings		
Date	Daily Max	Daily Average
6/4/2019	0.0	0.0
6/5/2019	0.0	0.0
6/6/2019	11.5	0.077777778
6/7/2019	5.5	0.029166667
6/8/2019	0.0	0.0
6/9/2019	0.0	0.0
6/10/2019	0.0	0.0
6/11/2019	8.0	0.034027778
6/12/2019	7.0	0.044618056
6/13/2019	3.5	0.0
6/14/2019	4.5	0.057680989

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	3/29/19 @ 13:13
Sample Count	Interval Time (sec)	Bump Test Date
23298	30	6/19/19 @ 07:34
H2S Readings		
Date	Daily Max	Daily Average
6/19/2019	0.0	0.0
6/20/2019	6.5	0.051215278
6/21/2019	5.0	0.022916667
6/22/2019	10.5	0.172222222
6/23/2019	5.5	0.115277778
6/24/2019	2.5	0.005555556
6/25/2019	3.5	0.021527778
6/26/2019	6.0	0.033680556
6/27/2019	5.0	0.060384871

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JUNE
YEAR: 2019

DATE LOAD	BRIGHT		DUVALL		SPOK.		VASHON		HOBART		OTHER		REMARKS
	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
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19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
TOTAL	0	0	0	0	0	0	14000	0	0	0	0	0	0



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

July 15, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division

NW for CC

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of July 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 7/2, 7/10, 7/17, 7/23, and 7/30).
- Atmospheric Hydrogen Sulfide at A9002 (for 7/2-7/11 and 7/22-7/31)
- Leachate Hauling Report (for July)

One arsenic loading exceedance occurred during the month of July (7/17). KCIW was notified of this exceedance on 7/24. Multiple atmospheric hydrogen sulfide exceedances occurred during the month of July (7/10, 7/24-7/30.) KCIW was notified of these exceedances on 7/22 and 8/1, respectively. Details of these exceedances were provided in two *14 Day Reports*, submitted on 8/5 and 8/14.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: JULY 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (Indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												104,000	
2	C	8.60	.268	.2577	<.0005	.0002	.154	.1481	.0075	.0072	<0.1 ppm	115,300	
3												791,000	
4												116,200	
5												804,500	
6												108,000	
7												123,000	
8												105,300	
9												110,400	
10	C	8.18	.282	.2039	<.0005	.0002	.17	.1229	.00898	.0065	<0.1 ppm	86,700	
11												81,400	
12												85,100	
13												82,800	
14												73,000	
15												83,900	
16												75,200	
17	C	8.07	.285	.3939	<.0005	.0003	.177	.2446	.00817	.0113	<0.1 ppm	165,700	
18												0	
19												309,500	
20												1,016,200	
21												95,600	
22												84,600	
23	C	7.02	.292	.2121	<.0005	.0002	.2	.1453	.0108	.0078	<0.1 ppm	87,100	
24												86,300	
25												818,100	
26												630,400	
27												183,500	
28												0	
29												0	
30	C	8.09	.293	.2026	<.0005	.0002	.181	.1251	.0117	.0081	<0.1 ppm	82,900	
31												0	
Total Monthly Flow (gallons)											6,506,000		
Maximum Daily Flow											1,016,200		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: [Signature] Date: 8/15/19

7/20/19

7/23/19
7/2/19

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Monthly Min pH: 7.02
Monthly Max pH: 8.60



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03
Please Specify Month & Year: Month: JULY 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (title)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2	C	.00203	.00195	<.0001	4.81E-05	.158	.1519	<.0004	.0002	.192	.185	
3												
4												
5												
6												
7												
8												
9												
10	C	.00258	.00187	<.0001	3.62E-05	.158	.114	<.0004	.0001	.236	.171	
11												
12												
13												
14												
15												
16												
17	C	.00249	.00344	<.0001	6.91E-05	.161	.222	<.0004	.0003	.225	.311	
18												
19												
20												
21												
22												
23	C	.00294	.00214	<.0001	3.6E-05	.166	.121	<.0004	.0001	.239	.174	
24												
25												
26												
27												
28												
29												
30	C	.00297	.00205	<.0001	3.5E-05	.171	.118	<.0004	.0001	.223	.154	
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal/Executive or Authorized Agent _____
Date 8/15/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: Month: JULY 2019

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)
1			
2	0	0.000000	Y
3	3.5	0.030382	Y
4	4	0.095139	N
5	6	0.055729	Y
6	4.5	0.063889	N
7	7.5	0.076736	N
8	8.5	0.046875	N
9	4.5	0.036632	N
10	16	0.103299	N
11	5	0.054635	N
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22	1	0.006354	N
23	10	0.071007	N
24	19.5	0.185069	N
25	17.5	0.111285	Y
26	48	0.479167	N
27	55	0.766319	Y
28	6.5	0.263889	N
29	3	0.057118	N
30	57	0.341493	N
31	0	0.000000	Y
Monthly MAX	57		7/30/19
Monthly AVG	0.14973774		

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Date 8/15/19

Signature of Principal Executive or Authorized Agent

Notes

Additional information regarding atmospheric hydrogen sulfide exceedances in July are presented in 14-day reports submitted to KCIW on August 5 and August 14, 2019.

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 07/09/2019
Report Group: CHLS-P_070919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190702P
SDG/Lab Sample ID: 14930 / L72663-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 07/02/2019
LoginDate: 07/02/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.56		.05	.05		07/05/2019	07/05/2019	WG164697
Antimony, Total	10	mg/L	.0203		.003	.003		07/05/2019	07/05/2019	WG164697
Arsenic, Total	10	mg/L	.268		.0005	.0005	1	07/05/2019	07/05/2019	WG164697
Barium, Total	10	mg/L	.146		.005	.005		07/05/2019	07/05/2019	WG164697
Beryllium, Total	10	mg/L	<.001	U	.001	.001		07/05/2019	07/05/2019	WG164697
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	07/05/2019	07/05/2019	WG164697
Calcium, Total	10	mg/L	60		.5	.5		07/05/2019	07/05/2019	WG164697
Chromium, Total	10	mg/L	.154		.002	.002	2.75	07/05/2019	07/05/2019	WG164697
Cobalt, Total	10	mg/L	.0357		.0005	.0005		07/05/2019	07/05/2019	WG164697
Copper, Total	10	mg/L	.0075		.002	.002	3	07/05/2019	07/05/2019	WG164697
Iron, Total	10	mg/L	5.17		.1	.1		07/05/2019	07/05/2019	WG164697
Lead, Total	10	mg/L	.00203		.001	.001	2	07/05/2019	07/05/2019	WG164697
Magnesium, Total	10	mg/L	66.4		.5	.5		07/05/2019	07/05/2019	WG164697
Manganese, Total	10	mg/L	.427		.001	.001		07/05/2019	07/05/2019	WG164697
Nickel, Total	10	mg/L	.158		.001	.001	2.5	07/05/2019	07/05/2019	WG164697
Phosphorus, Total	10	mg/L	6.08		1	1		07/05/2019	07/05/2019	WG164697
Potassium, Total	10	mg/L	456		1	1		07/05/2019	07/05/2019	WG164697
Selenium, Total	10	mg/L	<.005	U	.005	.005		07/05/2019	07/05/2019	WG164697
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	07/05/2019	07/05/2019	WG164697
Sodium, Total	10	mg/L	1290		1	1		07/05/2019	07/05/2019	WG164697
Thallium, Total	10	mg/L	<.001	U	.001	.001		07/05/2019	07/05/2019	WG164697
Tin, Total	10	mg/L	.0227		.005	.005		07/05/2019	07/05/2019	WG164697
Vanadium, Total	10	mg/L	.055		.00075	.00075		07/05/2019	07/05/2019	WG164697
Zinc, Total	10	mg/L	.192		.005	.005	5	07/05/2019	07/05/2019	WG164697
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/08/2019	07/09/2019	WG164715

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 07/18/2019
 Report Group: CHLS-P_071719

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS190710P
 SDG/Lab Sample ID: 14926 / L72668-1
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 07/10/2019
 LoginDate: 07/10/2019
 Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.708		.05	.05		07/12/2019	07/15/2019	WG164824
Antimony, Total	10	mg/L	.0222		.003	.003		07/12/2019	07/15/2019	WG164824
Arsenic, Total	10	mg/L	.282		.0005	.0005	1	07/12/2019	07/15/2019	WG164824
Barium, Total	10	mg/L	.171		.005	.005		07/12/2019	07/15/2019	WG164824
Beryllium, Total	10	mg/L	<.001	U	.001	.001		07/12/2019	07/15/2019	WG164824
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	07/12/2019	07/15/2019	WG164824
Calcium, Total	10	mg/L	64		.5	.5		07/12/2019	07/15/2019	WG164824
Chromium, Total	10	mg/L	.17		.002	.002	2.75	07/12/2019	07/15/2019	WG164824
Cobalt, Total	10	mg/L	.0368		.0005	.0005		07/12/2019	07/15/2019	WG164824
Copper, Total	10	mg/L	.00898		.002	.002	3	07/12/2019	07/15/2019	WG164824
Iron, Total	10	mg/L	5.92		.1	.1		07/12/2019	07/15/2019	WG164824
Lead, Total	10	mg/L	.00258		.001	.001	2	07/12/2019	07/15/2019	WG164824
Magnesium, Total	10	mg/L	69.1		.5	.5		07/12/2019	07/15/2019	WG164824
Manganese, Total	10	mg/L	.49		.001	.001		07/12/2019	07/15/2019	WG164824
Nickel, Total	10	mg/L	.158		.001	.001	2.5	07/12/2019	07/15/2019	WG164824
Phosphorus, Total	10	mg/L	7.38		1	1		07/12/2019	07/15/2019	WG164824
Potassium, Total	10	mg/L	490		1	1		07/12/2019	07/15/2019	WG164824
Selenium, Total	10	mg/L	<.005	U	.005	.005		07/12/2019	07/15/2019	WG164824
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	07/12/2019	07/15/2019	WG164824
Sodium, Total	10	mg/L	1340		1	1		07/12/2019	07/15/2019	WG164824
Thallium, Total	10	mg/L	<.001	U	.001	.001		07/12/2019	07/15/2019	WG164824
Tin, Total	10	mg/L	.016	D	.005	.005		07/12/2019	07/15/2019	WG164824
Vanadium, Total	10	mg/L	.0601	D	.00075	.00075		07/12/2019	07/15/2019	WG164824
Zinc, Total	10	mg/L	.236		.005	.005	5	07/12/2019	07/15/2019	WG164824
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/12/2019	07/15/2019	WG164824

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 07/24/2019
Report Group: CHLS-P_072419

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190717P	CollectDate: 07/17/2019
SDG/Lab Sample ID: 14940 / L72707-1	LoginDate: 07/17/2019
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.688		.05	.05		07/22/2019	07/22/2019	WG165010
Antimony, Total	10	mg/L	.0234		.003	.003		07/22/2019	07/22/2019	WG165010
Arsenic, Total	10	mg/L	.285		.0005	.0005	1	07/22/2019	07/22/2019	WG165010
Barium, Total	10	mg/L	.169		.005	.005		07/22/2019	07/22/2019	WG165010
Beryllium, Total	10	mg/L	<.001	U	.001	.001		07/22/2019	07/22/2019	WG165010
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	07/22/2019	07/22/2019	WG165010
Calcium, Total	10	mg/L	58		.5	.5		07/22/2019	07/22/2019	WG165010
Chromium, Total	10	mg/L	.177		.002	.002	2.75	07/22/2019	07/22/2019	WG165010
Cobalt, Total	10	mg/L	.0375	D	.0005	.0005		07/22/2019	07/23/2019	WG165010
Copper, Total	10	mg/L	.00817		.002	.002	3	07/22/2019	07/22/2019	WG165010
Iron, Total	10	mg/L	5.81		.1	.1		07/22/2019	07/22/2019	WG165010
Lead, Total	10	mg/L	.00249		.001	.001	2	07/22/2019	07/22/2019	WG165010
Magnesium, Total	10	mg/L	68.4		.5	.5		07/22/2019	07/22/2019	WG165010
Manganese, Total	10	mg/L	.418		.001	.001		07/22/2019	07/22/2019	WG165010
Nickel, Total	10	mg/L	.161		.001	.001	2.5	07/22/2019	07/22/2019	WG165010
Phosphorus, Total	10	mg/L	7.77		1	1		07/22/2019	07/22/2019	WG165010
Potassium, Total	10	mg/L	496		1	1		07/22/2019	07/22/2019	WG165010
Selenium, Total	10	mg/L	<.005	U	.005	.005		07/22/2019	07/22/2019	WG165010
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	07/22/2019	07/22/2019	WG165010
Sodium, Total	10	mg/L	1360		1	1		07/22/2019	07/22/2019	WG165010
Thallium, Total	10	mg/L	<.001	U	.001	.001		07/22/2019	07/22/2019	WG165010
Tin, Total	10	mg/L	.0193		.005	.005		07/22/2019	07/22/2019	WG165010
Vanadium, Total	10	mg/L	.0596	D	.00075	.00075		07/22/2019	07/23/2019	WG165010
Zinc, Total	10	mg/L	.225		.005	.005	5	07/22/2019	07/22/2019	WG165010
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/22/2019	07/23/2019	WG165020

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 07/31/2019
 Report Group: CHLS-P_073019

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS190723P
 SDG/Lab Sample ID: 14944 / L72726-1
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 07/23/2019
 LoginDate: 07/23/2019
 Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/25/2019	07/29/2019	WG165110
Aluminum, Total	10	mg/L	1.12		.05	.05		07/30/2019	07/30/2019	WG165151
Antimony, Total	10	mg/L	.0253		.003	.003		07/30/2019	07/30/2019	WG165151
Arsenic, Total	10	mg/L	.292		.0005	.0005	1	07/30/2019	07/30/2019	WG165151
Barium, Total	10	mg/L	.188		.005	.005		07/30/2019	07/30/2019	WG165151
Beryllium, Total	10	mg/L	<.001	U	.001	.001		07/30/2019	07/30/2019	WG165151
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	07/30/2019	07/30/2019	WG165151
Calcium, Total	10	mg/L	60.6		.5	.5		07/30/2019	07/30/2019	WG165151
Chromium, Total	10	mg/L	.2		.002	.002	2.75	07/30/2019	07/30/2019	WG165151
Cobalt, Total	10	mg/L	.0405		.0005	.0005		07/30/2019	07/30/2019	WG165151
Copper, Total	10	mg/L	.0108		.002	.002	3	07/30/2019	07/30/2019	WG165151
Iron, Total	10	mg/L	6.76		.1	.1		07/30/2019	07/30/2019	WG165151
Lead, Total	10	mg/L	.00294		.001	.001	2	07/30/2019	07/30/2019	WG165151
Magnesium, Total	10	mg/L	70.2		.5	.5		07/30/2019	07/30/2019	WG165151
Manganese, Total	10	mg/L	.478		.001	.001		07/30/2019	07/30/2019	WG165151
Nickel, Total	10	mg/L	.166		.001	.001	2.5	07/30/2019	07/30/2019	WG165151
Phosphorus, Total	10	mg/L	8.89		1	1		07/30/2019	07/30/2019	WG165151
Potassium, Total	10	mg/L	506		1	1		07/30/2019	07/30/2019	WG165151
Selenium, Total	10	mg/L	<.005	U	.005	.005		07/30/2019	07/30/2019	WG165151
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	07/30/2019	07/30/2019	WG165151
Sodium, Total	10	mg/L	1390		1	1		07/30/2019	07/30/2019	WG165151
Thallium, Total	10	mg/L	<.001	U	.001	.001		07/30/2019	07/30/2019	WG165151
Tin, Total	10	mg/L	.0206		.005	.005		07/30/2019	07/30/2019	WG165151
Vanadium, Total	10	mg/L	.064	D	.00075	.00075		07/30/2019	07/30/2019	WG165151
Zinc, Total	10	mg/L	.239		.005	.005	5	07/30/2019	07/30/2019	WG165151

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 08/06/2019
 Report Group: CHLS-P_080619

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS190730P
 SDG/Lab Sample ID: 14894 / L72776-1
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 07/30/2019
 LoginDate: 07/30/2019
 Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.812		.05	.05		08/01/2019	08/02/2019	WG165198
Antimony, Total	10	mg/L	.0233		.003	.003		08/01/2019	08/02/2019	WG165198
Arsenic, Total	10	mg/L	.293		.0005	.0005	1	08/01/2019	08/02/2019	WG165198
Barium, Total	10	mg/L	.183		.005	.005		08/01/2019	08/02/2019	WG165198
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/01/2019	08/02/2019	WG165198
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/01/2019	08/02/2019	WG165198
Calcium, Total	10	mg/L	60.1		.5	.5		08/01/2019	08/02/2019	WG165198
Chromium, Total	10	mg/L	.181		.002	.002	2.75	08/01/2019	08/02/2019	WG165198
Cobalt, Total	10	mg/L	.0397		.0005	.0005		08/01/2019	08/02/2019	WG165198
Copper, Total	10	mg/L	.0117		.002	.002	3	08/01/2019	08/02/2019	WG165198
Iron, Total	10	mg/L	5.93		.1	.1		08/01/2019	08/02/2019	WG165198
Lead, Total	10	mg/L	.00297		.001	.001	2	08/01/2019	08/02/2019	WG165198
Magnesium, Total	10	mg/L	70		.5	.5		08/01/2019	08/02/2019	WG165198
Manganese, Total	10	mg/L	.46		.001	.001		08/01/2019	08/02/2019	WG165198
Nickel, Total	10	mg/L	.171		.001	.001	2.5	08/01/2019	08/02/2019	WG165198
Phosphorus, Total	10	mg/L	8.09		1	1		08/01/2019	08/02/2019	WG165198
Potassium, Total	10	mg/L	514		1	1		08/01/2019	08/02/2019	WG165198
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/01/2019	08/02/2019	WG165198
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	08/01/2019	08/02/2019	WG165198
Sodium, Total	10	mg/L	1430		1	1		08/01/2019	08/02/2019	WG165198
Thallium, Total	10	mg/L	<.001	U	.001	.001		08/01/2019	08/02/2019	WG165198
Tin, Total	10	mg/L	.0195		.005	.005		08/01/2019	08/02/2019	WG165198
Vanadium, Total	10	mg/L	.0625	D	.00075	.00075		08/01/2019	08/02/2019	WG165198
Zinc, Total	10	mg/L	.223		.005	.005	5	08/01/2019	08/02/2019	WG165198
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		08/01/2019	08/02/2019	WG165213

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	6/28/19 @ 09:19
Sample Count	Interval Time (sec)	Bump Test Date
25847	30	7/2/19 @ 14:38

H2S Readings

Date	Daily Max	Daily Average
7/2/2019	0	0.000000
7/3/2019	3.5	0.030382
7/4/2019	4	0.095139
7/5/2019	6	0.055729
7/6/2019	4.5	0.063889
7/7/2019	7.5	0.076736
7/8/2019	8.5	0.046875
7/9/2019	4.5	0.036632
7/10/2019	16	0.103299
7/11/2019	5	0.054635

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	6/28/19 @ 09:19
Sample Count	Interval Time (sec)	Bump Test Date
25646	30	7/22/19 @ 14:56
H2S Readings		
Date	Daily Max	Daily Average
7/22/2019	1	0.006353861
7/23/2019	10	0.071006944
7/24/2019	19.5	0.185069444
7/25/2019	17.5	0.111284722
7/26/2019	48	0.479166667
7/27/2019	55	0.766319444
7/28/2019	6.5	0.263888889
7/29/2019	3	0.057118056
7/30/2019	57	0.341493056
7/31/2019	0	0

MONTH: JULY
YEAR: 2019

		DUVALL						VASHON				HOBART		OTHER		
		BRIGHT		C.H.		SPOK.		C.H.		C.H.		C.H.		C.H.		
DATE	LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	REMARKS
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
TOTAL		0	0.00	0	21000.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

September 12, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of August 2019. All results met permit-specified limits. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 8/6/19, 8/13/19, 8/21/19, and 8/27/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 8/5/19 – 8/14/19)
- Leachate Hauling Report (for August)

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: AUGUST 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	pH		Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (Indicate Batch Discharge where applicable)
		LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD			
1														
2														
3														
4														
5														
6	C	7.77	0.306	0.2282	0.0002	0.193	0.1439	0.00378	0.0028	0.0028	0.0028	<0.1 ppm	89,400	
7													88,400	
8													89,900	
9													98,200	
10													77,700	
11													79,900	
12													86,100	
13	C	7.90	0.339	0.2454	0.0002	0.197	0.1426	0.00705	0.0051	0.0051	0.0051	<0.1 ppm	86,800	
14													98,800	
15													86,700	
16													797,500	
17													308,300	
18													263,300	
19													73,500	
20													81,400	
21	C	7.88	0.332	0.2542	0.0002	0.22	0.1684	0.00596	0.0046	0.0046	0.0046	<0.1 ppm	91,800	
22													103,100	
23													60,200	
24													122,000	
25													60,000	
26													91,800	
27	C	7.36	0.34	0.2512	0.0002	0.217	0.1603	0.00589	0.0044	0.0044	0.0044	<0.1 ppm	88,600	
28													91,200	
29													88,400	
30													91,900	
31													89,400	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent
9/12/19
Date

Total Monthly Flow (gallons)	3,805,900
Maximum Daily Flow	797,500

8/27/19
8/13/19

Monthly Min pH	7.36
Monthly Max pH	7.90

PLEASE CIRCLE ALL PERMIT VIOLATIONS Due Date: Monthly report is due by the 15th each month.

8/16/19



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: AUGUST 2019 Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2												
3												
4												
5												
6	C	0.00264	0.00197	<0.0001	3.7E-05	0.168	0.125	<0.0004	0.0001	0.164	0.122	
7												
8												
9												
10												
11												
12												
13	C	0.00312	0.00226	<0.0001	3.6E-05	0.188	0.136	<0.0004	0.0001	0.217	0.157	
14												
15												
16												
17												
18												
19												
20												
21	C	0.00302	0.00231	<0.0002	7.7E-05	0.201	0.154	<0.0004	0.0002	0.178	0.136	
22												
23												
24												
25												
26												
27	C	0.00291	0.00215	<0.0002	7.4E-05	0.2	0.148	<0.0004	0.0001	0.168	0.124	
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____
Date 9/12/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: Month: AUGUST 2019
This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4				
5	0.0	0.0	Y	
6	4.0	0.01	N	
7	0.0	0.0	Y	
8	0.0	0.0	Y	
9	0.0	0.0	Y	
10	1.0	0.01	N	
11	0.0	0.0	Y	
12	0.0	0.0	Y	
13	0.0	0.0	Y	
14	0.0	0.0	Y	
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	4.0			
Monthly AVG	0.002045827			

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Date 9/12/19

Signature of Principal Executive or Authorized Agent

8/6/19

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/14/2019
Report Group: CHLS-P_081419

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190806P
SDG/Lab Sample ID: 15217 / L72926-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 08/06/2019
LoginDate: 08/07/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		08/08/2019	08/09/2019	WG165388
Aluminum, Total	10	mg/L	.485		.05	.05		08/09/2019	08/12/2019	WG165399
Antimony, Total	10	mg/L	.0252		.003	.003		08/09/2019	08/12/2019	WG165399
Arsenic, Total	10	mg/L	.306		.0005	.0005	1	08/09/2019	08/12/2019	WG165399
Barium, Total	10	mg/L	.169		.005	.005		08/09/2019	08/12/2019	WG165399
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/09/2019	08/12/2019	WG165399
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/09/2019	08/12/2019	WG165399
Calcium, Total	10	mg/L	55.3		.5	.5		08/09/2019	08/12/2019	WG165399
Chromium, Total	10	mg/L	.193		.002	.002	2.75	08/09/2019	08/12/2019	WG165399
Cobalt, Total	10	mg/L	.0406		.0005	.0005		08/09/2019	08/12/2019	WG165399
Copper, Total	10	mg/L	.00378		.002	.002	3	08/09/2019	08/12/2019	WG165399
Iron, Total	10	mg/L	5.73		.1	.1		08/09/2019	08/12/2019	WG165399
Lead, Total	10	mg/L	.00264		.001	.001	2	08/09/2019	08/12/2019	WG165399
Magnesium, Total	10	mg/L	72		.5	.5		08/09/2019	08/12/2019	WG165399
Manganese, Total	10	mg/L	.336		.001	.001		08/09/2019	08/12/2019	WG165399
Nickel, Total	10	mg/L	.168		.001	.001	2.5	08/09/2019	08/12/2019	WG165399
Phosphorus, Total	10	mg/L	8.19		1	1		08/09/2019	08/12/2019	WG165399
Potassium, Total	10	mg/L	538		1	1		08/09/2019	08/12/2019	WG165399
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/09/2019	08/12/2019	WG165399
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	08/09/2019	08/12/2019	WG165399
Sodium, Total	10	mg/L	1500		1	1		08/09/2019	08/12/2019	WG165399
Thallium, Total	10	mg/L	<.001	U	.001	.001		08/09/2019	08/12/2019	WG165399
Tin, Total	10	mg/L	.0179		.005	.005		08/09/2019	08/12/2019	WG165399
Vanadium, Total	10	mg/L	.0639	D	.00075	.00075		08/09/2019	08/12/2019	WG165399
Zinc, Total	10	mg/L	.164		.005	.005	5	08/09/2019	08/12/2019	WG165399

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/20/2019
Report Group: CHLS-P_082019

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190813P
SDG/Lab Sample ID: 14898 / L72957-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 08/13/2019
LoginDate: 08/13/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		08/14/2019	08/15/2019	WG165535
Aluminum, Total	10	mg/L	.648		.05	.05		08/15/2019	08/19/2019	WG165540
Antimony, Total	10	mg/L	.0247		.003	.003		08/15/2019	08/19/2019	WG165540
Arsenic, Total	10	mg/L	.339		.0005	.0005	1	08/15/2019	08/19/2019	WG165540
Barium, Total	10	mg/L	.207		.005	.005		08/15/2019	08/19/2019	WG165540
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/15/2019	08/19/2019	WG165540
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/15/2019	08/19/2019	WG165540
Calcium, Total	10	mg/L	58		.5	.5		08/15/2019	08/19/2019	WG165540
Chromium, Total	10	mg/L	.197		.002	.002	2.75	08/15/2019	08/19/2019	WG165540
Cobalt, Total	10	mg/L	.0437		.0005	.0005		08/15/2019	08/19/2019	WG165540
Copper, Total	10	mg/L	.00705		.002	.002	3	08/15/2019	08/19/2019	WG165540
Iron, Total	10	mg/L	5.75		.1	.1		08/15/2019	08/19/2019	WG165540
Lead, Total	10	mg/L	.00312	D	.001	.001	2	08/15/2019	08/19/2019	WG165540
Magnesium, Total	10	mg/L	77.2		.5	.5		08/15/2019	08/19/2019	WG165540
Manganese, Total	10	mg/L	.432		.001	.001		08/15/2019	08/19/2019	WG165540
Nickel, Total	10	mg/L	.188		.001	.001	2.5	08/15/2019	08/19/2019	WG165540
Phosphorus, Total	10	mg/L	8.34		1	1		08/15/2019	08/19/2019	WG165540
Potassium, Total	10	mg/L	569		1	1		08/15/2019	08/19/2019	WG165540
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/15/2019	08/19/2019	WG165540
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	08/15/2019	08/19/2019	WG165540
Sodium, Total	10	mg/L	1580		1	1		08/15/2019	08/19/2019	WG165540
Thallium, Total	10	mg/L	<.001	U	.001	.001		08/15/2019	08/19/2019	WG165540
Tin, Total	10	mg/L	.0215		.005	.005		08/15/2019	08/19/2019	WG165540
Vanadium, Total	10	mg/L	.0713		.00075	.00075		08/15/2019	08/19/2019	WG165540
Zinc, Total	10	mg/L	.217		.005	.005	5	08/15/2019	08/19/2019	WG165540

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 08/29/2019
Report Group: CHLS-P_082919

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190821P
SDG/Lab Sample ID: 14877 / L72909-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 08/21/2019
LoginDate: 08/22/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	4	mg/L	<.0002	U	.0002	.0002		08/26/2019	08/28/2019	WG165807
Aluminum, Total	10	mg/L	.588		.05	.05		08/27/2019	08/28/2019	WG165818
Antimony, Total	10	mg/L	.0256		.003	.003		08/27/2019	08/28/2019	WG165818
Arsenic, Total	10	mg/L	.332		.0005	.0005	1	08/27/2019	08/28/2019	WG165818
Barium, Total	10	mg/L	.192		.005	.005		08/27/2019	08/28/2019	WG165818
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/27/2019	08/28/2019	WG165818
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/27/2019	08/28/2019	WG165818
Calcium, Total	10	mg/L	56.6		.5	.5		08/27/2019	08/28/2019	WG165818
Chromium, Total	10	mg/L	.22		.002	.002	2.75	08/27/2019	08/28/2019	WG165818
Cobalt, Total	10	mg/L	.0461		.0005	.0005		08/27/2019	08/28/2019	WG165818
Copper, Total	10	mg/L	.00596		.002	.002	3	08/27/2019	08/28/2019	WG165818
Iron, Total	10	mg/L	5.79		.1	.1		08/27/2019	08/28/2019	WG165818
Lead, Total	10	mg/L	.00302		.001	.001	2	08/27/2019	08/28/2019	WG165818
Magnesium, Total	10	mg/L	76.3		.5	.5		08/27/2019	08/28/2019	WG165818
Manganese, Total	10	mg/L	.435		.001	.001		08/27/2019	08/28/2019	WG165818
Nickel, Total	10	mg/L	.201		.001	.001	2.5	08/27/2019	08/28/2019	WG165818
Phosphorus, Total	10	mg/L	8.85		1	1		08/27/2019	08/28/2019	WG165818
Potassium, Total	10	mg/L	567		1	1		08/27/2019	08/28/2019	WG165818
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/27/2019	08/28/2019	WG165818
Silver, Total	10	mg/L	<.0004	DU	.0004	.0004	1	08/27/2019	08/29/2019	WG165818
Sodium, Total	10	mg/L	1590		1	1		08/27/2019	08/28/2019	WG165818
Thallium, Total	10	mg/L	<.001	U	.001	.001		08/27/2019	08/28/2019	WG165818
Tin, Total	10	mg/L	.0199		.005	.005		08/27/2019	08/28/2019	WG165818
Vanadium, Total	10	mg/L	.0724		.00075	.00075		08/27/2019	08/28/2019	WG165818
Zinc, Total	10	mg/L	.178		.005	.005	5	08/27/2019	08/28/2019	WG165818

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/04/2019
Report Group: CHLS-P_090419

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190827P
SDG/Lab Sample ID: 14879 / L73155-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 08/27/2019
LoginDate: 08/28/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	4	mg/L	<.0002	U	.0002	.0002		08/29/2019	08/30/2019	WG165895
Aluminum, Total	10	mg/L	.568		.05	.05		08/30/2019	09/03/2019	WG165910
Antimony, Total	10	mg/L	.0239		.003	.003		08/30/2019	09/03/2019	WG165910
Arsenic, Total	10	mg/L	.34		.0005	.0005	1	08/30/2019	09/03/2019	WG165910
Barium, Total	10	mg/L	.181		.005	.005		08/30/2019	09/03/2019	WG165910
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/30/2019	09/03/2019	WG165910
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/30/2019	09/03/2019	WG165910
Calcium, Total	10	mg/L	56.9		.5	.5		08/30/2019	09/03/2019	WG165910
Chromium, Total	10	mg/L	.217		.002	.002	2.75	08/30/2019	09/03/2019	WG165910
Cobalt, Total	10	mg/L	.0462		.0005	.0005		08/30/2019	09/03/2019	WG165910
Copper, Total	10	mg/L	.00589		.002	.002	3	08/30/2019	09/03/2019	WG165910
Iron, Total	10	mg/L	5.64		.1	.1		08/30/2019	09/03/2019	WG165910
Lead, Total	10	mg/L	.00291		.001	.001	2	08/30/2019	09/03/2019	WG165910
Magnesium, Total	10	mg/L	76.1		.5	.5		08/30/2019	09/03/2019	WG165910
Manganese, Total	10	mg/L	.442		.001	.001		08/30/2019	09/03/2019	WG165910
Nickel, Total	10	mg/L	.2		.001	.001	2.5	08/30/2019	09/03/2019	WG165910
Phosphorus, Total	10	mg/L	8.31		1	1		08/30/2019	09/03/2019	WG165910
Potassium, Total	10	mg/L	579		1	1		08/30/2019	09/03/2019	WG165910
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/30/2019	09/03/2019	WG165910
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	08/30/2019	09/03/2019	WG165910
Sodium, Total	10	mg/L	1640		1	1		08/30/2019	09/03/2019	WG165910
Thallium, Total	10	mg/L	<.001	DU	.001	.001		08/30/2019	09/03/2019	WG165910
Tin, Total	10	mg/L	.0163		.005	.005		08/30/2019	09/03/2019	WG165910
Vanadium, Total	10	mg/L	.0716	D	.00075	.00075		08/30/2019	09/03/2019	WG165910
Zinc, Total	10	mg/L	.168		.005	.005	5	08/30/2019	09/03/2019	WG165910

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	8/2/19 @ 13:49
Sample Count	Interval Time (sec)	Bump Test Date
25666	30	7/22/19 @ 14:56
H2S Readings		
Date	Daily Max	Daily Average
8/5/2019	0.0	0.0
8/6/2019	4.0	0.01
8/7/2019	0.0	0.0
8/8/2019	0.0	0.0
8/9/2019	0.0	0.0
8/10/2019	1.0	0.01
8/11/2019	0.0	0.0
8/12/2019	0.0	0.0
8/13/2019	0.0	0.0
8/14/2019	0.0	0.0
Totals	4.0	0.002

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: AUGUST
YEAR: 2019

DATE LOAD	BRIGHT			DUVALL			SPOK.			VASHON			HOBART			OTHER			REMARKS
	6000	7000		6000	7000	C.H.	6000	7000	SPOK.	6000	7000	C.H.	6000	7000	C.H.	6000	7000	C.H.	
1			2.00																
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
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24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0	14000.00		0	0.00		0	0.00		0	0.00		0	0.00		0	0.00		



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

October 11, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *NW For CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of September 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 9/4/19, 9/10/19, 9/17/19 and 9/24/19)
- Atmospheric Hydrogen Sulfide at A9002 (for 9/10/19-9/18/19)
- Leachate Hauling Report (for September)

Two arsenic loading exceedances occurred during the month of September (9/17 and 9/24). KCIW was notified of these exceedances on 9/26 and 10/4, respectively. An atmospheric hydrogen sulfide exceedance occurred during the month of September (9/11). KCIW was notified of this exceedance on 9/18. Details of these exceedances were provided in two *14 Day Reports*; one submitted on 10/2, while the other will be submitted on or before 10/18.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: SEPTEMBER 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												88,400	
2												86,800	
3												793,900	
4	C	8.02	0.344	0.2467	<0.0005	0.0002	0.207	0.1485	0.00374	0.0027	<0.1 ppm	86,000	
5												375,400	
6												387,000	
7												83,700	
8												0	
9												85,500	
10	C	8.76	0.343	0.1033	<0.0005	0.0001	0.215	0.0647	0.00463	0.0014	<0.1 ppm	36,100	
11												72,600	
12												582,000	
13												564,400	
14												351,000	
15												324,800	
16												74,300	
17	C	8.76	0.505	0.2999	<0.0005	0.0001	0.223	0.1324	0.00674	0.0040	<0.1 ppm	71,200	
18												854,900	
19												1,038,800	
20												939,200	
21												386,100	
22												412,100	
23												87,300	
24	C	8.54	0.509	0.3596	<0.0005	0.0002	0.184	0.1300	0.00967	0.0068	<0.1 ppm	84,700	
25												975,600	
26												991,800	
27												982,700	
28												394,500	
29												385,400	
30												86,100	
31												N/A	

Monthly Min pH	8.02	9/4/19	Total Monthly Flow (gallons)	11,682,300
Monthly Max pH	8.76	9/10/19, 9/17/19	Maximum Daily Flow	1,038,800
		9/19/19		

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Date: 10/11/19

Signature of Principal Executive or Authorized Agent



Industrial Waste Program Monthly Self-Monitoring Report

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King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: SEPTEMBER 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (Indicate Batch Discharge where applicable)
		LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	
1												
2												
3												
4	C	0.00289	0.00207	<0.0001	0.00004	0.201	0.144	<0.0004	0.0001	0.134	0.096	
5												
6												
7												
8												
9												
10	C	0.00265	0.00080	<0.0001	1.51E-05	0.204	0.061	<0.0004	0.0001	0.137	0.041	
11												
12												
13												
14												
15												
16												
17	C	0.00285	0.00169	<0.0001	2.97E-05	0.193	0.115	<0.0004	0.0001	0.133	0.079	
18												
19												
20												
21												
22												
23												
24	C	0.00256	0.00181	<0.0001	3.53E-05	0.168	0.119	<0.0004	0.0001	0.166	0.117	
25												
26												
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: *[Signature]*
Date: 10/11/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: SEPTEMBER 2019

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4				
5				
6				
7				
8				
9				
10	1.0	0.0015	N	
11	11.0	0.0948	N	
12	2.5	0.0045	Y	
13	1.5	0.0017	Y	
14	4.0	0.0602	Y	
15	4.5	0.0451	Y	
16	3.0	0.0101	N	
17	3.5	0.0080	N	
18	0.0	0.0000	Y	
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

On September 11, 2019, the Eagle gas meter recorded an atmospheric hydrogen sulfide level of 11 ppm for a period of 1 minute and 30 seconds, from 8:54:45 to 8:55:15, exceeding the 10 ppm limit set by the permit. Subsequent monitoring data show an immediate return to compliance for a full 7 days.

No resample was necessary. KCIW closed the matter by flagging the exceedance as a violation and plans to issue a Notice of Violation letter to KCSWD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent
Date 10/11/19

9/11/19

Monthly MAX 11.0
Monthly AVG 0.0251

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/13/2019
Report Group: CHLS-P_091219

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190904P
SDG/Lab Sample ID: 14884 / L73201-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 09/04/2019
LoginDate: 09/05/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.525		.05	.05		09/09/2019	09/10/2019	WG166030
Antimony, Total	10	mg/L	.0244		.003	.003		09/09/2019	09/10/2019	WG166030
Arsenic, Total	10	mg/L	.344		.0005	.0005	1	09/09/2019	09/10/2019	WG166030
Barium, Total	10	mg/L	.191		.005	.005		09/09/2019	09/10/2019	WG166030
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/09/2019	09/10/2019	WG166030
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	09/09/2019	09/10/2019	WG166030
Calcium, Total	10	mg/L	55.9		.5	.5		09/09/2019	09/10/2019	WG166030
Chromium, Total	10	mg/L	.207		.002	.002	2.75	09/09/2019	09/10/2019	WG166030
Cobalt, Total	10	mg/L	.0444		.0005	.0005		09/09/2019	09/10/2019	WG166030
Copper, Total	10	mg/L	.00374		.002	.002	3	09/09/2019	09/10/2019	WG166030
Iron, Total	10	mg/L	5.02		.1	.1		09/09/2019	09/10/2019	WG166030
Lead, Total	10	mg/L	.00289		.001	.001	2	09/09/2019	09/10/2019	WG166030
Magnesium, Total	10	mg/L	82.2		.5	.5		09/09/2019	09/10/2019	WG166030
Manganese, Total	10	mg/L	.436		.001	.001		09/09/2019	09/10/2019	WG166030
Nickel, Total	10	mg/L	.201		.001	.001	2.5	09/09/2019	09/10/2019	WG166030
Phosphorus, Total	10	mg/L	8.28		1	1		09/09/2019	09/10/2019	WG166030
Potassium, Total	10	mg/L	637		1	1		09/09/2019	09/10/2019	WG166030
Selenium, Total	10	mg/L	<.005	U	.005	.005		09/09/2019	09/10/2019	WG166030
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	09/09/2019	09/10/2019	WG166030
Sodium, Total	10	mg/L	1760		1	1		09/09/2019	09/10/2019	WG166030
Thallium, Total	10	mg/L	<.001	U	.001	.001		09/09/2019	09/10/2019	WG166030
Tin, Total	10	mg/L	.0189		.005	.005		09/09/2019	09/10/2019	WG166030
Vanadium, Total	10	mg/L	.0746		.00075	.00075		09/09/2019	09/10/2019	WG166030
Zinc, Total	10	mg/L	.134		.005	.005	5	09/09/2019	09/10/2019	WG166030
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/09/2019	09/10/2019	WG166054

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/18/2019
Report Group: CHLS-P_091819

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190910P
SDG/Lab Sample ID: 14919 / L73232-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 09/10/2019
LoginDate: 09/11/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.56		.05	.05		09/12/2019	09/17/2019	WG166178
Antimony, Total	10	mg/L	.024		.003	.003		09/12/2019	09/17/2019	WG166178
Arsenic, Total	10	mg/L	.343		.0005	.0005	1	09/12/2019	09/17/2019	WG166178
Barium, Total	10	mg/L	.183		.005	.005		09/12/2019	09/17/2019	WG166178
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/12/2019	09/17/2019	WG166178
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	09/12/2019	09/17/2019	WG166178
Calcium, Total	10	mg/L	54.8		.5	.5		09/12/2019	09/17/2019	WG166178
Chromium, Total	10	mg/L	.215		.002	.002	2.75	09/12/2019	09/17/2019	WG166178
Cobalt, Total	10	mg/L	.0465		.0005	.0005		09/12/2019	09/17/2019	WG166178
Copper, Total	10	mg/L	.00463		.002	.002	3	09/12/2019	09/17/2019	WG166178
Iron, Total	10	mg/L	5.31		.1	.1		09/12/2019	09/17/2019	WG166178
Lead, Total	10	mg/L	.00265		.001	.001	2	09/12/2019	09/17/2019	WG166178
Magnesium, Total	10	mg/L	78		.5	.5		09/12/2019	09/17/2019	WG166178
Manganese, Total	10	mg/L	.459		.001	.001		09/12/2019	09/17/2019	WG166178
Nickel, Total	10	mg/L	.204		.001	.001	2.5	09/12/2019	09/17/2019	WG166178
Phosphorus, Total	10	mg/L	8.5		1	1		09/12/2019	09/17/2019	WG166178
Potassium, Total	10	mg/L	608		1	1		09/12/2019	09/17/2019	WG166178
Selenium, Total	10	mg/L	<.005	U	.005	.005		09/12/2019	09/17/2019	WG166178
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	09/12/2019	09/17/2019	WG166178
Sodium, Total	10	mg/L	1680		1	1		09/12/2019	09/17/2019	WG166178
Thallium, Total	10	mg/L	<.001	U	.001	.001		09/12/2019	09/17/2019	WG166178
Tin, Total	10	mg/L	.0196		.005	.005		09/12/2019	09/17/2019	WG166178
Vanadium, Total	10	mg/L	.0746		.00075	.00075		09/12/2019	09/17/2019	WG166178
Zinc, Total	10	mg/L	.137		.005	.005	5	09/12/2019	09/17/2019	WG166178
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/12/2019	09/13/2019	WG166180

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 09/25/2019
Report Group: CHLS-P_092419

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190917P
SDG/Lab Sample ID: 14920 / L73288-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 09/17/2019
LoginDate: 09/17/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/19/2019	09/20/2019	WG166314
Aluminum, Total	10	mg/L	.666		.05	.05		09/23/2019	09/23/2019	WG166331
Antimony, Total	10	mg/L	.0524		.003	.003		09/23/2019	09/23/2019	WG166331
Arsenic, Total	10	mg/L	.505		.0005	.0005	1	09/23/2019	09/23/2019	WG166331
Barium, Total	10	mg/L	.188		.005	.005		09/23/2019	09/23/2019	WG166331
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/23/2019	09/23/2019	WG166331
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	09/23/2019	09/23/2019	WG166331
Calcium, Total	10	mg/L	54.8		.5	.5		09/23/2019	09/23/2019	WG166331
Chromium, Total	10	mg/L	.223		.002	.002	2.75	09/23/2019	09/23/2019	WG166331
Cobalt, Total	10	mg/L	.0458		.0005	.0005		09/23/2019	09/23/2019	WG166331
Copper, Total	10	mg/L	.00674		.002	.002	3	09/23/2019	09/23/2019	WG166331
Iron, Total	10	mg/L	5.97		.1	.1		09/23/2019	09/23/2019	WG166331
Lead, Total	10	mg/L	.00285		.001	.001	2	09/23/2019	09/23/2019	WG166331
Magnesium, Total	10	mg/L	78.6		.5	.5		09/23/2019	09/23/2019	WG166331
Manganese, Total	10	mg/L	.559		.001	.001		09/23/2019	09/23/2019	WG166331
Nickel, Total	10	mg/L	.193		.001	.001	2.5	09/23/2019	09/23/2019	WG166331
Phosphorus, Total	10	mg/L	8.56		1	1		09/23/2019	09/23/2019	WG166331
Potassium, Total	10	mg/L	583		1	1		09/23/2019	09/23/2019	WG166331
Selenium, Total	10	mg/L	<.005	U	.005	.005		09/23/2019	09/23/2019	WG166331
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	09/23/2019	09/23/2019	WG166331
Sodium, Total	10	mg/L	1640		1	1		09/23/2019	09/23/2019	WG166331
Thallium, Total	10	mg/L	<.001	U	.001	.001		09/23/2019	09/23/2019	WG166331
Tin, Total	10	mg/L	.024		.005	.005		09/23/2019	09/23/2019	WG166331
Vanadium, Total	10	mg/L	.0726		.00075	.00075		09/23/2019	09/23/2019	WG166331
Zinc, Total	10	mg/L	.133		.005	.005	5	09/23/2019	09/23/2019	WG166331

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/02/2019
Report Group: CHLS-P_100119

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS190924P
SDG/Lab Sample ID: 15287 / L73290-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 09/24/2019
LoginDate: 09/24/2019
Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	1.03		.05	.05		09/26/2019	09/30/2019	WG166448
Antimony, Total	10	mg/L	.059		.003	.003		09/26/2019	09/30/2019	WG166448
Arsenic, Total	10	mg/L	.509		.0005	.0005	1	09/26/2019	09/30/2019	WG166448
Barium, Total	10	mg/L	.18		.005	.005		09/26/2019	09/30/2019	WG166448
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/26/2019	09/30/2019	WG166448
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	09/26/2019	09/30/2019	WG166448
Calcium, Total	10	mg/L	55.5		.5	.5		09/26/2019	09/30/2019	WG166448
Chromium, Total	10	mg/L	.184		.002	.002	2.75	09/26/2019	09/30/2019	WG166448
Cobalt, Total	10	mg/L	.0401		.0005	.0005		09/26/2019	09/30/2019	WG166448
Copper, Total	10	mg/L	.00967		.002	.002	3	09/26/2019	09/30/2019	WG166448
Iron, Total	10	mg/L	6.18		.1	.1		09/26/2019	09/30/2019	WG166448
Lead, Total	10	mg/L	.00256		.001	.001	2	09/26/2019	09/30/2019	WG166448
Magnesium, Total	10	mg/L	68.2		.5	.5		09/26/2019	09/30/2019	WG166448
Manganese, Total	10	mg/L	.868		.001	.001		09/26/2019	09/30/2019	WG166448
Nickel, Total	10	mg/L	.168		.001	.001	2.5	09/26/2019	09/30/2019	WG166448
Phosphorus, Total	10	mg/L	7.36		1	1		09/26/2019	09/30/2019	WG166448
Potassium, Total	10	mg/L	491		1	1		09/26/2019	09/30/2019	WG166448
Selenium, Total	10	mg/L	<.005	U	.005	.005		09/26/2019	09/30/2019	WG166448
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	09/26/2019	09/30/2019	WG166448
Sodium, Total	10	mg/L	1380		1	1		09/26/2019	09/30/2019	WG166448
Thallium, Total	10	mg/L	<.001	U	.001	.001		09/26/2019	09/30/2019	WG166448
Tin, Total	10	mg/L	.0143	G	.005	.005		09/26/2019	09/30/2019	WG166448
Vanadium, Total	10	mg/L	.0599		.00075	.00075		09/26/2019	09/30/2019	WG166448
Zinc, Total	10	mg/L	.166		.005	.005	5	09/26/2019	09/30/2019	WG166448
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/26/2019	09/27/2019	WG166454

Client Sample ID: LEPS190924F
SDG/Lab Sample ID: 15287 / L73290-2
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 09/24/2019
LoginDate: 09/24/2019
Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	<.05	U	.05	.05		09/26/2019	09/30/2019	WG166448
Antimony, Total	10	mg/L	<.003	U	.003	.003		09/26/2019	09/30/2019	WG166448
Arsenic, Total	10	mg/L	<.0005	U	.0005	.0005	1	09/26/2019	09/30/2019	WG166448
Barium, Total	10	mg/L	<.005	U	.005	.005		09/26/2019	09/30/2019	WG166448
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/26/2019	09/30/2019	WG166448
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	09/26/2019	09/30/2019	WG166448
Calcium, Total	10	mg/L	<.5	U	.5	.5		09/26/2019	09/30/2019	WG166448
Chromium, Total	10	mg/L	<.002	U	.002	.002	2.75	09/26/2019	09/30/2019	WG166448
Cobalt, Total	10	mg/L	<.0005	U	.0005	.0005		09/26/2019	09/30/2019	WG166448
Copper, Total	10	mg/L	<.002	U	.002	.002	3	09/26/2019	09/30/2019	WG166448
Iron, Total	10	mg/L	<.1	U	.1	.1		09/26/2019	09/30/2019	WG166448
Lead, Total	10	mg/L	<.001	U	.001	.001	2	09/26/2019	09/30/2019	WG166448
Magnesium, Total	10	mg/L	<.5	U	.5	.5		09/26/2019	09/30/2019	WG166448
Manganese, Total	10	mg/L	<.001	U	.001	.001		09/26/2019	09/30/2019	WG166448

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	8/2/19 @ 13:49
Sample Count	Interval Time (sec)	Bump Test Date
22964	30	9/9/19 @ 13:08

H2S Readings

Date	Daily Max	Daily Average
9/10/2019	1.0	0.0015
9/11/2019	11.0	0.0948
9/12/2019	2.5	0.0045
9/13/2019	1.5	0.0017
9/14/2019	4.0	0.0602
9/15/2019	4.5	0.0451
9/16/2019	3.0	0.0101
9/17/2019	3.5	0.0080
9/18/2019	0.0	0.0000

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: SEPTEMBER
YEAR: 2019

DATE	BRIGHT		DUVALL		SPOK.		VASHON		HOBART		OTHER		REMARKS
	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
TOTAL	0	14000	0	0	0	0	0	7000	0	0	0	0	0



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701


Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

November 15, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division 

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of October 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 10/1/19, 10/8/19, 10/15/19, 10/23/19 and 10/30/19)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 10/3/19-10/5/19; 10/18/19-10/31/19)
- Leachate Hauling Report (for October)

Three arsenic loading exceedances occurred at monitoring location A90021 during the month of October (10/1, 10/23, and 10/30). KCIW was notified of these exceedances on 10/9, 11/4, and 11/7, respectively. Multiple atmospheric hydrogen sulfide exceedances, at monitoring location A9002, occurred during the month of October (10/18, 10/24-10/29). KCIW was notified of these exceedances on 10/25 and 10/31, respectively. Two soluble sulfide exceedances occurred at monitoring location A90021 during the month of October (10/9 and 10/15), with notification sent to KCIW on the same day the exceedance occurred (10/9 and 10/15.) Details of these exceedances were provided in two *14 Day Reports*; one submitted on 10/18, and the other submitted 11/7.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Joan Kenton, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: October 2019 Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
			LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD	LIMIT	LOAD			
1	C	8.70	0.368	0.2732	<0.0005	0.0002	0.147	0.1091	0.00505	0.0037	<0.1 ppm	89,000	
2												87,800	
3												79,500	
4												100,200	
5												91,900	
6												120,500	
7												1,043,900	
8	C	8.54	0.331	0.2697	<0.0005	0.0002	0.147	0.1198	0.00563	0.0046	1.1, 0.9, 0.8 ppm	97,700	
9												1,050,400	
10												1,058,200	
11												92,200	
12												578,000	
13												551,500	
14												0	
15	C	8.34	0.268	0.2054	<0.0005	0.0002	0.135	0.1035	0.0063	0.0048	1.0, 0.9, 0.8 ppm	91,900	
16												698,600	
17												920,400	
18												1,032,800	
19												875,300	
20												858,200	
21												933,700	
22												3,000	
23	C		0.156	1.3615	<0.0005	0.0022	0.0919	0.8021	0.00686	0.0599	0.1 ppm	1,046,500	
24												1,128,800	
25												1,025,700	
26												1,711,900	
27												1,154,000	
28												980,000	
29												997,000	
30	C		0.109	0.9539	<0.0005	0.0022	0.0648	0.5671	0.00863	0.0755	0.1 ppm	1,049,300	
31												1,024,800	
Total Monthly Flow (gallons)											20,573,000		
Maximum Daily Flow											1,711,900		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent: [Signature] Date: 10/15/19

10/26/19

Due Date: Monthly report is due by the 15th each month.

10/23/19
10/1/19

Monthly Min pH: 8.06
Monthly Max pH: 8.70

PLEASE CIRCLE ALL PERMIT VIOLATIONS



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: October 2019 Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMIT 2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1	C	0.0016	0.00119	<0.0001	0.00004	0.136	0.101	<0.0004	0.0001	0.0709	0.053	
2												
3												
4												
5												
6												
7												
8	C	0.00129	0.00105	<0.0001	4.07E-05	0.128	0.104	<0.0004	0.0002	0.0621	0.051	
9												
10												
11												
12												
13												
14												
15	C	0.00134	0.00103	<0.0001	3.83E-05	0.12	0.092	<0.0004	0.0002	0.0669	0.051	
16												
17												
18												
19												
20												
21												
22												
23	C	0.00116	0.01012	<0.0001	0.0004	0.0788	0.688	<0.0004	0.0017	0.0514	0.449	
24												
25												
26												
27												
28												
29												
30	C	0.00119	0.01041	<0.0001	0.0004	0.0588	0.515	<0.0004	0.0018	0.0611	0.535	
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent Jim Martin Date 11/15/19

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Month: October 2019 Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)
1			
2			
3	0.0	0.000	Y
4	0.0	0.000	Y
5	0.0	0.000	Y
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18	13.5	2.410	N
19	5.0	0.166	Y
20	2.5	0.021	Y
21	0.0	0.000	Y
22	0.0	0.000	Y
23	0.0	0.000	Y
24	11.5	1.063	Y
25	7.0	0.333	N
26	0.0	0.000	Y
27	1.0	0.001	N
28	18.0	0.971	N
29	26.0	1.112	Y
30	0.0	0.000	Y
31	0.0	0.000	Y
Monthly MAX	26.0		10/29/19
Monthly AVG	0.338		

Notes

The Eagle H₂S gas meter was initially placed at site no. A9002 on October 3, 2019 but had a battery failure that was found by field engineering personnel on October 5. The Eagle was placed back in A9002 on October 18. The gas meter had to be reset on October 21 to clear a time-weighted-average alarm. On October 21, SWD downloaded data and results which indicated an instantaneous maximum exceedance occurred on October 18. In response, SWD conducted resampling activities at A9002 from October 21-October 31. KCIW field personnel contacted SWD to request that the Eagle meter be removed on October 23, to allow for KCIW to collect their 24-hour sample at A9002. On October 24, the Eagle was placed back in A9002 and ran until October 31. On the afternoon of October 31, SWD picked up the Eagle meter and monitoring results indicated additional exceedances. The atmospheric hydrogen sulfide concentrations were unusual in several ways, including the magnitude, frequency, and duration of exceedances when compared to historic monitoring data.

The November monthly sample will also be used as a resample for the late October exceedances, and will be reported in the November Self-Monitoring Report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/08/2019
Report Group: CHLS-P_100819

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191001P
SDG/Lab Sample ID: 15291 / L73385-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 10/01/2019
LoginDate: 10/01/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/02/2019	10/04/2019	WG166548
Aluminum, Total	10	mg/L	.463		.05	.05		10/03/2019	10/03/2019	WG166552
Antimony, Total	10	mg/L	.0434		.003	.003		10/03/2019	10/03/2019	WG166552
Arsenic, Total	10	mg/L	.368		.0005	.0005	1	10/03/2019	10/03/2019	WG166552
Barium, Total	10	mg/L	.158		.005	.005		10/03/2019	10/03/2019	WG166552
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/03/2019	10/03/2019	WG166552
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	10/03/2019	10/03/2019	WG166552
Calcium, Total	10	mg/L	54.2		.5	.5		10/03/2019	10/03/2019	WG166552
Chromium, Total	10	mg/L	.147		.002	.002	2.75	10/03/2019	10/03/2019	WG166552
Cobalt, Total	10	mg/L	.0315		.0005	.0005		10/03/2019	10/03/2019	WG166552
Copper, Total	10	mg/L	.00505		.002	.002	3	10/03/2019	10/03/2019	WG166552
Iron, Total	10	mg/L	5.31		.1	.1		10/03/2019	10/03/2019	WG166552
Lead, Total	10	mg/L	.0016		.001	.001	2	10/03/2019	10/03/2019	WG166552
Magnesium, Total	10	mg/L	61.3		.5	.5		10/03/2019	10/03/2019	WG166552
Manganese, Total	10	mg/L	.766	D	.001	.001		10/03/2019	10/04/2019	WG166552
Nickel, Total	10	mg/L	.136		.001	.001	2.5	10/03/2019	10/03/2019	WG166552
Phosphorus, Total	10	mg/L	5.68		1	1		10/03/2019	10/03/2019	WG166552
Potassium, Total	10	mg/L	422		1	1		10/03/2019	10/03/2019	WG166552
Selenium, Total	10	mg/L	<.005	U	.005	.005		10/03/2019	10/03/2019	WG166552
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	10/03/2019	10/03/2019	WG166552
Sodium, Total	10	mg/L	1170		1	1		10/03/2019	10/03/2019	WG166552
Thallium, Total	10	mg/L	<.001	U	.001	.001		10/03/2019	10/03/2019	WG166552
Tin, Total	10	mg/L	.0123		.005	.005		10/03/2019	10/03/2019	WG166552
Vanadium, Total	10	mg/L	.0504		.00075	.00075		10/03/2019	10/03/2019	WG166552
Zinc, Total	10	mg/L	.0709		.005	.005	5	10/03/2019	10/03/2019	WG166552

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/17/2019
Report Group: CHLS-P_101619

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191008P
SDG/Lab Sample ID: 15265 / L73436-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 10/08/2019
LoginDate: 10/09/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.41		.05	.05		10/14/2019	10/15/2019	WG166735
Antimony, Total	10	mg/L	.0424		.003	.003		10/14/2019	10/15/2019	WG166735
Arsenic, Total	10	mg/L	.331		.0005	.0005	1	10/14/2019	10/15/2019	WG166735
Barium, Total	10	mg/L	.151		.005	.005		10/14/2019	10/15/2019	WG166735
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/14/2019	10/15/2019	WG166735
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	10/14/2019	10/15/2019	WG166735
Calcium, Total	10	mg/L	51.2		.5	.5		10/14/2019	10/15/2019	WG166735
Chromium, Total	10	mg/L	.147		.002	.002	2.75	10/14/2019	10/15/2019	WG166735
Cobalt, Total	10	mg/L	.0304		.0005	.0005		10/14/2019	10/15/2019	WG166735
Copper, Total	10	mg/L	.00563		.002	.002	3	10/14/2019	10/15/2019	WG166735
Iron, Total	10	mg/L	4.74		.1	.1		10/14/2019	10/15/2019	WG166735
Lead, Total	10	mg/L	.00129		.001	.001	2	10/14/2019	10/15/2019	WG166735
Magnesium, Total	10	mg/L	55.2		.5	.5		10/14/2019	10/15/2019	WG166735
Manganese, Total	10	mg/L	.723		.001	.001		10/14/2019	10/15/2019	WG166735
Nickel, Total	10	mg/L	.128		.001	.001	2.5	10/14/2019	10/15/2019	WG166735
Phosphorus, Total	10	mg/L	6.48	D	1	1		10/14/2019	10/16/2019	WG166735
Potassium, Total	10	mg/L	388		1	1		10/14/2019	10/15/2019	WG166735
Selenium, Total	10	mg/L	<.005	U	.005	.005		10/14/2019	10/15/2019	WG166735
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	10/14/2019	10/15/2019	WG166735
Sodium, Total	10	mg/L	1060		1	1		10/14/2019	10/15/2019	WG166735
Thallium, Total	10	mg/L	<.001	U	.001	.001		10/14/2019	10/15/2019	WG166735
Tin, Total	10	mg/L	.0148		.005	.005		10/14/2019	10/15/2019	WG166735
Vanadium, Total	10	mg/L	.0478	D	.00075	.00075		10/14/2019	10/16/2019	WG166735
Zinc, Total	10	mg/L	.0621		.005	.005	5	10/14/2019	10/15/2019	WG166735
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/15/2019	10/16/2019	WG166780

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/22/2019
Report Group: CHLS-P_102219

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191015P
SDG/Lab Sample ID: 15299 / L73480-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 10/15/2019
LoginDate: 10/15/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/17/2019	10/18/2019	WG166828
Aluminum, Total	10	mg/L	.479	D	.05	.05		10/21/2019	10/22/2019	WG166873
Antimony, Total	10	mg/L	.0381		.003	.003		10/21/2019	10/21/2019	WG166873
Arsenic, Total	10	mg/L	.268		.0005	.0005	1	10/21/2019	10/21/2019	WG166873
Barium, Total	10	mg/L	.144		.005	.005		10/21/2019	10/21/2019	WG166873
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/21/2019	10/21/2019	WG166873
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	10/21/2019	10/21/2019	WG166873
Calcium, Total	10	mg/L	51.4		.5	.5		10/21/2019	10/21/2019	WG166873
Chromium, Total	10	mg/L	.135		.002	.002	2.75	10/21/2019	10/21/2019	WG166873
Cobalt, Total	10	mg/L	.0286		.0005	.0005		10/21/2019	10/21/2019	WG166873
Copper, Total	10	mg/L	.0063		.002	.002	3	10/21/2019	10/21/2019	WG166873
Iron, Total	10	mg/L	4.9	D	.1	.1		10/21/2019	10/22/2019	WG166873
Lead, Total	10	mg/L	.00134		.001	.001	2	10/21/2019	10/21/2019	WG166873
Magnesium, Total	10	mg/L	51.3		.5	.5		10/21/2019	10/21/2019	WG166873
Manganese, Total	10	mg/L	.75		.001	.001		10/21/2019	10/21/2019	WG166873
Nickel, Total	10	mg/L	.12		.001	.001	2.5	10/21/2019	10/21/2019	WG166873
Phosphorus, Total	10	mg/L	6.08		1	1		10/21/2019	10/21/2019	WG166873
Potassium, Total	10	mg/L	354		1	1		10/21/2019	10/21/2019	WG166873
Selenium, Total	10	mg/L	<.005	U	.005	.005		10/21/2019	10/21/2019	WG166873
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	10/21/2019	10/21/2019	WG166873
Sodium, Total	10	mg/L	994		1	1		10/21/2019	10/21/2019	WG166873
Thallium, Total	10	mg/L	<.001	U	.001	.001		10/21/2019	10/21/2019	WG166873
Tin, Total	10	mg/L	.014		.005	.005		10/21/2019	10/21/2019	WG166873
Vanadium, Total	10	mg/L	.0447		.00075	.00075		10/21/2019	10/21/2019	WG166873
Zinc, Total	10	mg/L	.0669		.005	.005	5	10/21/2019	10/21/2019	WG166873

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 10/30/2019
Report Group: CHLS-P_103019

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191023P
SDG/Lab Sample ID: 15314 / L73517-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 10/23/2019
LoginDate: 10/24/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.596		.05	.05		10/28/2019	10/29/2019	WG167041
Antimony, Total	10	mg/L	.0256		.003	.003		10/28/2019	10/29/2019	WG167041
Arsenic, Total	10	mg/L	.156		.0005	.0005	1	10/28/2019	10/29/2019	WG167041
Barium, Total	10	mg/L	.117		.005	.005		10/28/2019	10/29/2019	WG167041
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/28/2019	10/29/2019	WG167041
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	10/28/2019	10/29/2019	WG167041
Calcium, Total	10	mg/L	46.1		.5	.5		10/28/2019	10/29/2019	WG167041
Chromium, Total	10	mg/L	.0919		.002	.002	2.75	10/28/2019	10/29/2019	WG167041
Cobalt, Total	10	mg/L	.0189		.0005	.0005		10/28/2019	10/29/2019	WG167041
Copper, Total	10	mg/L	.00686		.002	.002	3	10/28/2019	10/29/2019	WG167041
Iron, Total	10	mg/L	4.31		.1	.1		10/28/2019	10/29/2019	WG167041
Lead, Total	10	mg/L	.00116		.001	.001	2	10/28/2019	10/29/2019	WG167041
Magnesium, Total	10	mg/L	37.2		.5	.5		10/28/2019	10/29/2019	WG167041
Manganese, Total	10	mg/L	.737		.001	.001		10/28/2019	10/29/2019	WG167041
Nickel, Total	10	mg/L	.0788		.001	.001	2.5	10/28/2019	10/29/2019	WG167041
Phosphorus, Total	10	mg/L	4.19		1	1		10/28/2019	10/29/2019	WG167041
Potassium, Total	10	mg/L	228		1	1		10/28/2019	10/29/2019	WG167041
Selenium, Total	10	mg/L	<.005	U	.005	.005		10/28/2019	10/29/2019	WG167041
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	10/28/2019	10/29/2019	WG167041
Sodium, Total	10	mg/L	639		1	1		10/28/2019	10/29/2019	WG167041
Thallium, Total	10	mg/L	<.001	U	.001	.001		10/28/2019	10/29/2019	WG167041
Tin, Total	10	mg/L	.0115		.005	.005		10/28/2019	10/29/2019	WG167041
Vanadium, Total	10	mg/L	.0308		.00075	.00075		10/28/2019	10/29/2019	WG167041
Zinc, Total	10	mg/L	.0514		.005	.005	5	10/28/2019	10/29/2019	WG167041
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/28/2019	10/29/2019	WG167045

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/06/2019
Report Group: CHLS-P_110619

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191030P
SDG/Lab Sample ID: 15315 / L73575-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 10/30/2019
LoginDate: 10/30/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/31/2019	11/01/2019	WG167106
Aluminum, Total	10	mg/L	1.14		.05	.05		11/04/2019	11/04/2019	WG167114
Antimony, Total	10	mg/L	.0179		.003	.003		11/04/2019	11/04/2019	WG167114
Arsenic, Total	10	mg/L	.109		.0005	.0005	1	11/04/2019	11/04/2019	WG167114
Barium, Total	10	mg/L	.102		.005	.005		11/04/2019	11/04/2019	WG167114
Beryllium, Total	10	mg/L	<.001	U	.001	.001		11/04/2019	11/04/2019	WG167114
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	11/04/2019	11/04/2019	WG167114
Calcium, Total	10	mg/L	46.3		.5	.5		11/04/2019	11/04/2019	WG167114
Chromium, Total	10	mg/L	.0648		.002	.002	2.75	11/04/2019	11/04/2019	WG167114
Cobalt, Total	10	mg/L	.0158		.0005	.0005		11/04/2019	11/04/2019	WG167114
Copper, Total	10	mg/L	.00863		.002	.002	3	11/04/2019	11/04/2019	WG167114
Iron, Total	10	mg/L	5.46		.1	.1		11/04/2019	11/04/2019	WG167114
Lead, Total	10	mg/L	.00119		.001	.001	2	11/04/2019	11/04/2019	WG167114
Magnesium, Total	10	mg/L	27.9		.5	.5		11/04/2019	11/04/2019	WG167114
Manganese, Total	10	mg/L	.86		.001	.001		11/04/2019	11/04/2019	WG167114
Nickel, Total	10	mg/L	.0588		.001	.001	2.5	11/04/2019	11/04/2019	WG167114
Phosphorus, Total	10	mg/L	3.28		1	1		11/04/2019	11/04/2019	WG167114
Potassium, Total	10	mg/L	163		1	1		11/04/2019	11/04/2019	WG167114
Selenium, Total	10	mg/L	<.005	U	.005	.005		11/04/2019	11/04/2019	WG167114
Silver, Total	10	mg/L	<.0004	DU	.0004	.0004	1	11/04/2019	11/05/2019	WG167114
Sodium, Total	10	mg/L	460		1	1		11/04/2019	11/04/2019	WG167114
Thallium, Total	10	mg/L	<.001	U	.001	.001		11/04/2019	11/04/2019	WG167114
Tin, Total	10	mg/L	.00811		.005	.005		11/04/2019	11/04/2019	WG167114
Vanadium, Total	10	mg/L	.0238		.00075	.00075		11/04/2019	11/04/2019	WG167114
Zinc, Total	10	mg/L	.0611		.005	.005	5	11/04/2019	11/04/2019	WG167114

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	8/2/19 @ 13:49
H2S Readings		
Sample Count	Interval Time (sec)	Bump Test Date
4169	30	10/3/19 @ 14:06
Date	Daily Max	Daily Average
10/3/2019	0.0	0.000
10/4/2019	0.0	0.000
10/5/2019	0.0	0.000
H2S Readings		
Sample Count	Interval Time (sec)	Bump Test Date
8331	30	10/18/19 @ 13:54
10/18/2019	13.5	2.410
10/19/2019	5.0	0.166
10/20/2019	2.5	0.021
10/21/2019	0.0	0.000
H2S Readings		
Sample Count	Interval Time (sec)	Bump Test Date
5839	30	10/18/19 @ 13:54
10/21/2019	0.0	0.000
10/22/2019	0.0	0.000
10/23/2019	0.0	0.000
H2S Readings		
Sample Count	Interval Time (sec)	Bump Test Date
20,361	30	10/24/19 @ 11:23
10/24/2019	11.5	1.063
10/25/2019	7.0	0.333
10/26/2019	0.0	0.000
10/27/2019	1.0	0.001
10/28/2019	18.0	0.971
10/29/2019	26.0	1.112
10/30/2019	0.0	0.000
10/31/2019	0.0	0.000

MONTH: OCTOBER
YEAR: 2019

[illegible]



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

December 13, 2019

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *NW for CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of November 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 11/4/19, 11/13/19, 11/19/19, 11/26/19)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 11/4/19-11/15/19)
- Leachate Hauling Report (for November)

One arsenic loading exceedance occurred at monitoring location A90021 during the month of November, on 11/13/19. KCIW was notified of this exceedance on 11/26/19. One atmospheric hydrogen sulfide exceedance, at monitoring location A9002, occurred on 11/15/19. KCIW was notified of this exceedance on 11/18/19. Three soluble sulfide exceedances occurred at monitoring location A90021 during the month of November (11/4/19, 11/19/19, 11/26/19), with notification sent to KCIW on the same day the exceedance occurred. Details of these exceedances were provided in three *14 Day Reports*, submitted on 11/7/19, 11/21/19 and 12/4/19.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Joan Kenton, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sandy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



King County

Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: NOVEMBER 2019 This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (Indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												1,024,800	
2												1,047,900	
3												263,500	
4	C	7.94	0.0888	0.1397	<0.0005	0.0004	0.0572	0.0900	0.00949	0.0149	0.2 ppm	188,600	
5												152,700	
6												95,600	
7												107,000	
8												91,400	
9												89,500	
10												90,600	
11												89,400	
12												85,500	
13	C	8.50	0.212	0.4220	<0.0005	0.0005	0.112	0.2230	0.00769	0.0153	<0.1 ppm	238,700	
14												206,200	
15												1,064,800	
16												1,083,000	
17												490,600	
18												134,800	
19	C	7.89	0.157	0.2225	<0.0005	0.0004	0.0947	0.1342	0.00841	0.0119	2.7 ppm	169,900	2 nd test = 2.5 ppm
20												987,400	
21												1,018,700	
22												1,022,700	
23												1,059,100	
24												696,700	
25												649,500	
26	C	8.08	0.116	0.1624	<0.0005	0.0004	0.0706	0.0989	0.0085	0.0119	2.8 ppm	167,900	2 nd test = 2.8 ppm
27												612,400	
28												300,700	
29												307,500	
30												461,100	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

Date 12/13/19

26	C	<0.00102	0.00070	<0.0001	7.00E-05	0.059	0.083	<0.0004	0.0003	0.0546	0.076	
27												
28												
29												
30												
31												

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.



Industrial Waste Program Monthly Self-Monitoring Report

King County

H2S Monitoring

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Landfill Sample Site No. A9002 Permit No.: 7842-03

Please Specify Month & Year: Month: NOVEMBER Year: 2019 This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S – Air MAX	H ₂ S – Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				
2				
3				
4	0.0	0.0	Y	
5	0.0	0.0	Y	
6	0.0	0.0	Y	
7	0.0	0.0	Y	
8	0.0	0.0	Y	
9	0.0	0.0	Y	
10	0.0	0.0	Y	
11	0.0	0.0	Y	
12	0.0	0.0	Y	
13	0.0	0.0	Y	
14	0.0	0.0	Y	
15	12.5	1.1419	Y	
16				
17				
18				
19				
20				

The exceedance measured on November 15, 2019 occurred for a total of 7 minutes and 30 seconds, during a monitoring period that lasted 11 days, 7 hours, 59 minutes and 30 seconds.

- 99.95% compliant gas data over the course of the monitoring period (~11 days)
- Return to compliance on 11/15/19 from 14:57 until the Eagle gas meter was picked up at 15:15 on the same day

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

[Signature]
12/13/19

21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Monthly MAX	12.5			11/15/19	
Monthly AVG	0.1				

Due Date: Monthly report is due by the 15th each month.

PLEASE CIRCLE ALL PERMIT VIOLATIONS

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/12/2019
Report Group: CHLS-P_111219

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191104P
SDG/Lab Sample ID: 15334 / L73621-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 11/04/2019
LoginDate: 11/04/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.993		.0501	.0501		11/06/2019	11/07/2019	WG167191
Antimony, Total	10	mg/L	.013		.00301	.00301		11/06/2019	11/07/2019	WG167191
Arsenic, Total	10	mg/L	.0888		.000501	.000501	1	11/06/2019	11/07/2019	WG167191
Barium, Total	10	mg/L	.0886		.00501	.00501		11/06/2019	11/07/2019	WG167191
Beryllium, Total	10	mg/L	<.001	U	.001	.001		11/06/2019	11/07/2019	WG167191
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	11/06/2019	11/07/2019	WG167191
Calcium, Total	10	mg/L	40.6		.501	.501		11/06/2019	11/07/2019	WG167191
Chromium, Total	10	mg/L	.0572		.002	.002	2.75	11/06/2019	11/07/2019	WG167191
Cobalt, Total	10	mg/L	.0132		.000501	.000501		11/06/2019	11/07/2019	WG167191
Copper, Total	10	mg/L	.00949		.002	.002	3	11/06/2019	11/07/2019	WG167191
Iron, Total	10	mg/L	4.03		.1	.1		11/06/2019	11/07/2019	WG167191
Lead, Total	10	mg/L	.00103	D	.001	.001	2	11/06/2019	11/07/2019	WG167191
Magnesium, Total	10	mg/L	24.8		.501	.501		11/06/2019	11/07/2019	WG167191
Manganese, Total	10	mg/L	.675		.001	.001		11/06/2019	11/07/2019	WG167191
Nickel, Total	10	mg/L	.0512		.001	.001	2.5	11/06/2019	11/07/2019	WG167191
Phosphorus, Total	10	mg/L	3.43		1	1		11/06/2019	11/07/2019	WG167191
Potassium, Total	10	mg/L	143		1	1		11/06/2019	11/07/2019	WG167191
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		11/06/2019	11/07/2019	WG167191
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	11/06/2019	11/07/2019	WG167191
Sodium, Total	10	mg/L	397		1	1		11/06/2019	11/07/2019	WG167191
Thallium, Total	10	mg/L	<.001	U	.001	.001		11/06/2019	11/07/2019	WG167191
Tin, Total	10	mg/L	.00674		.00501	.00501		11/06/2019	11/07/2019	WG167191
Vanadium, Total	10	mg/L	.0203		.000752	.000752		11/06/2019	11/07/2019	WG167191
Zinc, Total	10	mg/L	.0511		.00501	.00501	5	11/06/2019	11/07/2019	WG167191
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		11/06/2019	11/07/2019	WG167200

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 11/20/2019
Report Group: CHLS-P_112019

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191113P
SDG/Lab Sample ID: 15336 / L73668-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 11/13/2019
LoginDate: 11/13/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.654		.0511	.0511		11/15/2019	11/18/2019	WG167377
Antimony, Total	10	mg/L	.0336		.00307	.00307		11/15/2019	11/18/2019	WG167377
Arsenic, Total	10	mg/L	.212		.000511	.000511	1	11/15/2019	11/18/2019	WG167377
Barium, Total	10	mg/L	.132		.00511	.00511		11/15/2019	11/18/2019	WG167377
Beryllium, Total	10	mg/L	<.00102	U	.00102	.00102		11/15/2019	11/18/2019	WG167377
Cadmium, Total	10	mg/L	<.000511	U	.000511	.000511	0.5	11/15/2019	11/18/2019	WG167377
Calcium, Total	10	mg/L	50.7		.511	.511		11/15/2019	11/18/2019	WG167377
Chromium, Total	10	mg/L	.112		.00205	.00205	2.75	11/15/2019	11/18/2019	WG167377
Cobalt, Total	10	mg/L	.0239		.000511	.000511		11/15/2019	11/18/2019	WG167377
Copper, Total	10	mg/L	.00769		.00205	.00205	3	11/15/2019	11/18/2019	WG167377
Iron, Total	10	mg/L	4.22		.102	.102		11/15/2019	11/18/2019	WG167377
Lead, Total	10	mg/L	.00149		.00102	.00102	2	11/15/2019	11/18/2019	WG167377
Magnesium, Total	10	mg/L	42.8		.511	.511		11/15/2019	11/18/2019	WG167377
Manganese, Total	10	mg/L	.763		.00102	.00102		11/15/2019	11/18/2019	WG167377
Nickel, Total	10	mg/L	.0963		.00102	.00102	2.5	11/15/2019	11/18/2019	WG167377
Phosphorus, Total	10	mg/L	5.88		1.02	1.02		11/15/2019	11/18/2019	WG167377
Potassium, Total	10	mg/L	298		1.02	1.02		11/15/2019	11/18/2019	WG167377
Selenium, Total	10	mg/L	<.00511	U	.00511	.00511		11/15/2019	11/18/2019	WG167377
Silver, Total	10	mg/L	<.000409	U	.000409	.000409	1	11/15/2019	11/18/2019	WG167377
Sodium, Total	10	mg/L	828		1.02	1.02		11/15/2019	11/18/2019	WG167377
Thallium, Total	10	mg/L	<.00102	U	.00102	.00102		11/15/2019	11/18/2019	WG167377
Tin, Total	10	mg/L	.0112		.00511	.00511		11/15/2019	11/18/2019	WG167377
Vanadium, Total	10	mg/L	.0372		.000767	.000767		11/15/2019	11/18/2019	WG167377
Zinc, Total	10	mg/L	.0769		.00511	.00511	5	11/15/2019	11/18/2019	WG167377
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		11/15/2019	11/18/2019	WG167390

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/02/2019
Report Group: CHLS_P_112719

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191119P
SDG/Lab Sample ID: 15346 / L73703-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 11/19/2019
LoginDate: 11/20/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.835		.0506	.0506		11/22/2019	11/22/2019	WG167488
Antimony, Total	10	mg/L	.029		.00303	.00303		11/22/2019	11/22/2019	WG167488
Arsenic, Total	10	mg/L	.157		.000506	.000506	1	11/22/2019	11/22/2019	WG167488
Barium, Total	10	mg/L	.132		.00506	.00506		11/22/2019	11/22/2019	WG167488
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		11/22/2019	11/22/2019	WG167488
Cadmium, Total	10	mg/L	<.000506	U	.000506	.000506	0.5	11/22/2019	11/22/2019	WG167488
Calcium, Total	10	mg/L	55.9		.506	.506		11/22/2019	11/22/2019	WG167488
Chromium, Total	10	mg/L	.0947		.00202	.00202	2.75	11/22/2019	11/22/2019	WG167488
Cobalt, Total	10	mg/L	.0198		.000506	.000506		11/22/2019	11/22/2019	WG167488
Copper, Total	10	mg/L	.00841		.00202	.00202	3	11/22/2019	11/22/2019	WG167488
Iron, Total	10	mg/L	4.31		.101	.101		11/22/2019	11/22/2019	WG167488
Lead, Total	10	mg/L	.00118		.00101	.00101	2	11/22/2019	11/22/2019	WG167488
Magnesium, Total	10	mg/L	35.7		.506	.506		11/22/2019	11/22/2019	WG167488
Manganese, Total	10	mg/L	.925		.00101	.00101		11/22/2019	11/22/2019	WG167488
Nickel, Total	10	mg/L	.0783		.00101	.00101	2.5	11/22/2019	11/22/2019	WG167488
Phosphorus, Total	10	mg/L	4.7		1.01	1.01		11/22/2019	11/22/2019	WG167488
Potassium, Total	10	mg/L	226		1.01	1.01		11/22/2019	11/22/2019	WG167488
Selenium, Total	10	mg/L	<.00506	U	.00506	.00506		11/22/2019	11/22/2019	WG167488
Silver, Total	10	mg/L	<.000405	U	.000405	.000405	1	11/22/2019	11/22/2019	WG167488
Sodium, Total	10	mg/L	664		1.01	1.01		11/22/2019	11/22/2019	WG167488
Thallium, Total	10	mg/L	<.00101	U	.00101	.00101		11/22/2019	11/22/2019	WG167488
Tin, Total	10	mg/L	.0106		.00506	.00506		11/22/2019	11/22/2019	WG167488
Vanadium, Total	10	mg/L	.0306		.000758	.000758		11/22/2019	11/22/2019	WG167488
Zinc, Total	10	mg/L	.0584		.00506	.00506	5	11/22/2019	11/22/2019	WG167488
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		11/22/2019	11/25/2019	WG167503

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 12/09/2019
Report Group: CHLS-P_120319

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191126P
SDG/Lab Sample ID: 15374 / L73741-1
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 11/26/2019
LoginDate: 11/26/2019
Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.866		.0511	.0511		12/02/2019	12/04/2019	WG167570
Antimony, Total	10	mg/L	.0195		.00307	.00307		12/02/2019	12/04/2019	WG167570
Arsenic, Total	10	mg/L	.116		.000511	.000511	1	12/02/2019	12/04/2019	WG167570
Barium, Total	10	mg/L	.104		.00511	.00511		12/02/2019	12/04/2019	WG167570
Beryllium, Total	10	mg/L	<.00102	U	.00102	.00102		12/02/2019	12/04/2019	WG167570
Cadmium, Total	10	mg/L	<.000511	U	.000511	.000511	0.5	12/02/2019	12/04/2019	WG167570
Calcium, Total	10	mg/L	46.5		.511	.511		12/02/2019	12/04/2019	WG167570
Chromium, Total	10	mg/L	.0706		.00204	.00204	2.75	12/02/2019	12/04/2019	WG167570
Cobalt, Total	10	mg/L	.016	D	.000511	.000511		12/02/2019	12/04/2019	WG167570
Copper, Total	10	mg/L	.0085		.00204	.00204	3	12/02/2019	12/04/2019	WG167570
Iron, Total	10	mg/L	4.15		.102	.102		12/02/2019	12/04/2019	WG167570
Lead, Total	10	mg/L	<.00102	U	.00102	.00102	2	12/02/2019	12/04/2019	WG167570
Magnesium, Total	10	mg/L	29.6		.511	.511		12/02/2019	12/04/2019	WG167570
Manganese, Total	10	mg/L	.761		.00102	.00102		12/02/2019	12/04/2019	WG167570
Nickel, Total	10	mg/L	.059		.00102	.00102	2.5	12/02/2019	12/04/2019	WG167570
Phosphorus, Total	10	mg/L	3.57		1.02	1.02		12/02/2019	12/04/2019	WG167570
Potassium, Total	10	mg/L	176		1.02	1.02		12/02/2019	12/04/2019	WG167570
Selenium, Total	10	mg/L	<.00511	U	.00511	.00511		12/02/2019	12/04/2019	WG167570
Silver, Total	10	mg/L	<.000409	U	.000409	.000409	1	12/02/2019	12/04/2019	WG167570
Sodium, Total	10	mg/L	482		1.02	1.02		12/02/2019	12/04/2019	WG167570
Thallium, Total	10	mg/L	<.00102	DU	.00102	.00102		12/02/2019	12/04/2019	WG167570
Tin, Total	10	mg/L	.00839		.00511	.00511		12/02/2019	12/04/2019	WG167570
Vanadium, Total	10	mg/L	.0244		.000766	.000766		12/02/2019	12/04/2019	WG167570
Zinc, Total	10	mg/L	.0546		.00511	.00511	5	12/02/2019	12/04/2019	WG167570
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/02/2019	12/03/2019	WG167585

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	11/4/19 @ 06:48
Sample Count	Interval Time (sec)	Bump Test Date
32738	30	11/4/19 @ 06:32
H2S Readings		
Date	Daily Max	Daily Average
11/4/2019	0.0	0.0
11/5/2019	0.0	0.0
11/6/2019	0.0	0.0
11/7/2019	0.0	0.0
11/8/2019	0.0	0.0
11/9/2019	0.0	0.0
11/10/2019	0.0	0.0
11/11/2019	0.0	0.0
11/12/2019	0.0	0.0
11/13/2019	0.0	0.0
11/14/2019	0.0	0.0
11/15/2019	12.5	1.1419

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: NOVEMBER
YEAR: 2019

DATE LOAD	BRIGHT			DUVALL			SPOK.			VASHON			C.H.			HOBART			OTHER			REMARKS
	6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		6000	7000		
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
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23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						
31																						
TOTAL	0	0.00		0	0.00		0	0.00		0	84000.00		0	0.00		0	70000.00		0	0.00		



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-296-6542 Fax 206-296-0197

TTY Relay: 711

January 13, 2020

TO: Greg Newborn, Industrial Waste Compliance, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division *CC*

RE: Wastewater Discharge Permit # 7842-03 - Cedar Hills – Self-Monitoring Report

The purpose of the memorandum is to enclose the Self-Monitoring Report for Cedar Hills (Permit Number 7842-03) for the month of December 2019. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 12/3/19, 12/10/19, 12/16/19, 12/26/19)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 12/3/19-12/11/19)
- Leachate Hauling Report (for December)

Multiple atmospheric hydrogen sulfide exceedances, at monitoring location A9002, occurred during the month of December on 12/7/19 and 12/9/19. KCIW was notified of these exceedances on 12/11/19. Three soluble sulfide exceedances occurred at monitoring location A90021 during the month of December (12/3/19, 12/10/19, and 12/17/19), with notifications sent to KCIW on the same day the exceedances occurred. One daily maximum discharge volume exceedance occurred on December 21st. KCIW was notified of this exceedance on December 23rd. Details of these exceedances were provided in three *14 Day Reports*, submitted on 12/17/19, 12/24/19 and 1/6/2020. One arsenic loading exceedance occurred at monitoring location A90021 on December 26th. KCIW was notified of this exceedance on January 8th. The 14-day report for this exceedance will be submitted by January 22nd.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 512-7100, or by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Neil Fujii, Facilities Engineering and Science Section Manager, SWD
Anne Holmes, Supervising Engineer, SWD
Joan Kenton, Environmental Compliance Coordinator, SWD
Shirley Jurgensen, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Sendy Jimenez, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Industrial Waste Program Monthly Self-Monitoring Report

Page 1 of 2

Company Name:

King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year:

Month: DECEMBER

2019

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. LOADING units are Pounds per day (lbs./day)

Sample Date (circle)	Sample Type*	pH	Arsenic, As		Cadmium, Cd		Chromium, Cr		Copper, Cu		Total Soluble Sulfides LIMIT - 0.1	Daily Industrial Flow LIMIT 2,700,000 (GPD)	Notes (indicate Batch Discharge where applicable)
			LIMIT 1.0	LOAD 0.27	LIMIT 0.5	LOAD 0.17	LIMIT 2.75	LOAD 1.20	LIMIT 3.0	LOAD 6.89			
1												0	
2												0	
3	C	7.57	0.148	0.2393	<0.0005	0.0004	0.0837	0.1354	0.00731	0.0118	5.0 ppm	193,900	
4												0	
5												94,400	
6												0	
7												1,066,400	
8												708,100	
9												965,800	
10	C	8.10	0.154	0.1205	<0.0005	0.0002	0.0897	0.0702	0.00736	0.0058	4.4 ppm	93,800	
11												613,800	
12												1,047,400	
13												1,069,100	
14												907,100	
15												90,900	
16	C	8.01	0.117	0.0940	<0.0005	0.0002	0.0725	0.0582	0.00802	0.0064	4.0 ppm	96,300	
17												88,500	
18												90,600	
19												1,120,200	
20												2,251,300	
21												2,832,800	
22												2,019,800	
23												1,310,000	
24												1,138,900	
25												455,100	
26	C	8.08	0.0635	0.5415	<0.0005	0.0021	0.0499	0.4255	0.00984	0.0839	<0.1 ppm	1,022,400	
27												1,033,600	
28												1,035,200	
29												1,019,600	
30												1,020,100	
31												1,004,700	

Monthly Min pH: 7.57
 Monthly Max pH: 8.10

12/3/19
 12/10/19

Total Monthly Flow (gallons): 24,390,000
 Maximum Daily Flow: 2,832,800

Due Date: Monthly report is due by the 15th each month.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.


 Signature of Principal Executive or Authorized Agent

1/09/2020
 Date



Industrial Waste Program Monthly Self-Monitoring Report

Page 2 of 2

King County

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

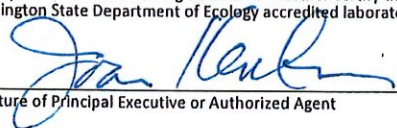
Please Specify Month & Year: Month: DECEMBER 2019

This form is available at www.kingcounty.gov/industrialwaste.

* Sample Types (C) Composite (G) Grab (BC) Batch All units are mg/l unless otherwise noted. **LOADING units are Pounds per day (lbs./day)**

Sample Date (circle)	Sample Type*	Lead, Pb		Mercury, Hg		Nickel, Ni		Silver, Ag		Zinc, Zn		Notes (indicate Batch Discharge where applicable)
		LIMIT 2.0	LOAD 1.2	LIMIT 0.1	LOAD 0.06	LIMI T2.5	LOAD 2.49	LIMIT 1.0	LOAD 0.44	LIMIT 5.0	LOAD 12.31	
1												
2												
3	C	0.00102	0.00165	<0.0001	8.09E-05	0.0734	0.119	<0.0004	0.0003	0.0589	0.095	
4												
5												
6												
7												
8												
9												
10	C	0.00122	0.00095	<0.0001	3.91E-05	0.0751	0.059	<0.0004	0.0002	0.0554	0.043	
11												
12												
13												
14												
15												
16	C	0.0012	0.00096	<0.0001	4.016E-05	0.06	0.048	<0.0004	0.0002	0.058	0.047	
17												
18												
19												
20												
21												
22												
23												
24												
25												
26	C	0.00178	0.01518	<0.0001	4.26E-05	0.0503	0.429	<0.0004	0.0017	0.365	3.112	
27												
28												
29												
30												
31												

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.


Signature of Principal Executive or Authorized Agent

1/09/2020
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

Send to: King County Industrial Waste Program

201 S. Jackson Street, Suite 513

Seattle, WA 98104-3855

Phone 206-477-5300 / FAX 206-263-3001

Email: info.KCIW@kingcounty.gov



King County

Industrial Waste Program Monthly Self-Monitoring Report

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: DECEMBER 2019

This form is available at www.kingcounty.gov/industrialwaste.

All units are PPM unless otherwise noted.

Sample Date (circle)	H ₂ S - Air MAX	H ₂ S - Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1				<p>SWD concludes no resample is necessary based on:</p> <ul style="list-style-type: none">97.27% compliant gas data over the course of the monitoring period (~8 days)A return to compliance on 12/10/19 and 12/11/19 (The Eagle gas meter recorded 0 ppm for the entire 48 hours)
2				
3	0	0	Y	
4	0	0	Y	
5	0	0	Y	
6	0	0	Y	
7	18	1.875	N	
8	0	0	Y	
9	37.5	3.077083	N	
10	0	0	Y	
11	0	0	Y	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Monthly MAX
37.5

Monthly AVG
0.618

12/9/19

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent

1/09/2020
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/11/2019
 Report Group: CHLS-P_121019

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS191203P
 SDG/Lab Sample ID: 15403 / L73776-1
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 12/03/2019
 LoginDate: 12/03/2019
 Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.709		.0509	.0509		12/04/2019	12/05/2019	WG167629
Antimony, Total	10	mg/L	.0222		.00305	.00305		12/04/2019	12/05/2019	WG167629
Arsenic, Total	10	mg/L	.148		.000509	.000509	1	12/04/2019	12/05/2019	WG167629
Barium, Total	10	mg/L	.11		.00509	.00509		12/04/2019	12/05/2019	WG167629
Beryllium, Total	10	mg/L	<.00102	U	.00102	.00102		12/04/2019	12/05/2019	WG167629
Cadmium, Total	10	mg/L	<.000509	U	.000509	.000509	0.5	12/04/2019	12/05/2019	WG167629
Calcium, Total	10	mg/L	50.6		.509	.509		12/04/2019	12/05/2019	WG167629
Chromium, Total	10	mg/L	.0837		.00203	.00203	2.75	12/04/2019	12/05/2019	WG167629
Cobalt, Total	10	mg/L	.0186	D	.000509	.000509		12/04/2019	12/05/2019	WG167629
Copper, Total	10	mg/L	.00731		.00203	.00203	3	12/04/2019	12/05/2019	WG167629
Iron, Total	10	mg/L	3.96		.102	.102		12/04/2019	12/05/2019	WG167629
Lead, Total	10	mg/L	.00122	D	.00102	.00102	2	12/04/2019	12/05/2019	WG167629
Magnesium, Total	10	mg/L	32.5		.509	.509		12/04/2019	12/05/2019	WG167629
Manganese, Total	10	mg/L	.74		.00102	.00102		12/04/2019	12/05/2019	WG167629
Nickel, Total	10	mg/L	.0734		.00102	.00102	2.5	12/04/2019	12/05/2019	WG167629
Phosphorus, Total	10	mg/L	4.62		1.02	1.02		12/04/2019	12/05/2019	WG167629
Potassium, Total	10	mg/L	223		1.02	1.02		12/04/2019	12/05/2019	WG167629
Selenium, Total	10	mg/L	<.00509	U	.00509	.00509		12/04/2019	12/05/2019	WG167629
Silver, Total	10	mg/L	<.000407	U	.000407	.000407	1	12/04/2019	12/05/2019	WG167629
Sodium, Total	10	mg/L	623		1.02	1.02		12/04/2019	12/05/2019	WG167629
Thallium, Total	10	mg/L	<.00102	DU	.00102	.00102		12/04/2019	12/05/2019	WG167629
Tin, Total	10	mg/L	.0101		.00509	.00509		12/04/2019	12/05/2019	WG167629
Vanadium, Total	10	mg/L	.028		.000763	.000763		12/04/2019	12/05/2019	WG167629
Zinc, Total	10	mg/L	.0589		.00509	.00509	5	12/04/2019	12/05/2019	WG167629
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/05/2019	12/06/2019	WG167646

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/17/2019
 Report Group: CHLS-P_121719

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS191210P
 SDG/Lab Sample ID: 15380 / L73827-1
 Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 12/10/2019
 LoginDate: 12/10/2019
 Matrix: LEACHATE

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.607		.051	.051		12/12/2019	12/16/2019	WG167747
Antimony, Total	10	mg/L	.0241		.00306	.00306		12/12/2019	12/16/2019	WG167747
Arsenic, Total	10	mg/L	.154		.00051	.00051	1	12/12/2019	12/16/2019	WG167747
Barium, Total	10	mg/L	.13		.0051	.0051		12/12/2019	12/16/2019	WG167747
Beryllium, Total	10	mg/L	<.00102	U	.00102	.00102		12/12/2019	12/16/2019	WG167747
Cadmium, Total	10	mg/L	<.00051	U	.00051	.00051	0.5	12/12/2019	12/16/2019	WG167747
Calcium, Total	10	mg/L	53.6		.51	.51		12/12/2019	12/16/2019	WG167747
Chromium, Total	10	mg/L	.0897		.00204	.00204	2.75	12/12/2019	12/16/2019	WG167747
Cobalt, Total	10	mg/L	.0192		.00051	.00051		12/12/2019	12/16/2019	WG167747
Copper, Total	10	mg/L	.00736		.00204	.00204	3	12/12/2019	12/16/2019	WG167747
Iron, Total	10	mg/L	4.39		.102	.102		12/12/2019	12/16/2019	WG167747
Lead, Total	10	mg/L	.00122		.00102	.00102	2	12/12/2019	12/16/2019	WG167747
Magnesium, Total	10	mg/L	36.4		.51	.51		12/12/2019	12/16/2019	WG167747
Manganese, Total	10	mg/L	.861		.00102	.00102		12/12/2019	12/16/2019	WG167747
Nickel, Total	10	mg/L	.0751		.00102	.00102	2.5	12/12/2019	12/16/2019	WG167747
Phosphorus, Total	10	mg/L	4.47		1.02	1.02		12/12/2019	12/16/2019	WG167747
Potassium, Total	10	mg/L	227		1.02	1.02		12/12/2019	12/16/2019	WG167747
Selenium, Total	10	mg/L	<.0051	U	.0051	.0051		12/12/2019	12/16/2019	WG167747
Silver, Total	10	mg/L	<.000408	U	.000408	.000408	1	12/12/2019	12/16/2019	WG167747
Sodium, Total	10	mg/L	636		1.02	1.02		12/12/2019	12/16/2019	WG167747
Thallium, Total	10	mg/L	<.00102	U	.00102	.00102		12/12/2019	12/16/2019	WG167747
Tin, Total	10	mg/L	.0101		.0051	.0051		12/12/2019	12/16/2019	WG167747
Vanadium, Total	10	mg/L	.03		.000765	.000765		12/12/2019	12/16/2019	WG167747
Zinc, Total	10	mg/L	.0554		.0051	.0051	5	12/12/2019	12/16/2019	WG167747
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/12/2019	12/16/2019	WG167771

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/23/2019
 Report Group: CHLS-P_122519

Report To: Rosendo Jimenez
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS191216P**
 SDG/Lab Sample ID: **15387 / L73851-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/16/2019**
 LoginDate: **12/18/2019**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals		MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q						
Aluminum, Total	10	mg/L	.831		.052	.052		12/19/2019	12/19/2019	WG167885
Antimony, Total	10	mg/L	.0186		.00312	.00312		12/19/2019	12/19/2019	WG167885
Arsenic, Total	10	mg/L	.117		.00052	.00052	1	12/19/2019	12/19/2019	WG167885
Barium, Total	10	mg/L	.106		.0052	.0052		12/19/2019	12/19/2019	WG167885
Beryllium, Total	10	mg/L	<.00104	U	.00104	.00104		12/19/2019	12/19/2019	WG167885
Cadmium, Total	10	mg/L	<.00052	U	.00052	.00052	0.5	12/19/2019	12/19/2019	WG167885
Calcium, Total	10	mg/L	51		.52	.52		12/19/2019	12/19/2019	WG167885
Chromium, Total	10	mg/L	.0725		.00208	.00208	2.75	12/19/2019	12/19/2019	WG167885
Cobalt, Total	10	mg/L	.0158		.00052	.00052		12/19/2019	12/19/2019	WG167885
Copper, Total	10	mg/L	.00802		.00208	.00208	3	12/19/2019	12/19/2019	WG167885
Iron, Total	10	mg/L	4.08		.104	.104		12/19/2019	12/19/2019	WG167885
Lead, Total	10	mg/L	.0012		.00104	.00104	2	12/19/2019	12/19/2019	WG167885
Magnesium, Total	10	mg/L	30.1		.52	.52		12/19/2019	12/19/2019	WG167885
Manganese, Total	10	mg/L	.782		.00104	.00104		12/19/2019	12/19/2019	WG167885
Nickel, Total	10	mg/L	.06		.00104	.00104	2.5	12/19/2019	12/19/2019	WG167885
Phosphorus, Total	10	mg/L	3.52		1.04	1.04		12/19/2019	12/19/2019	WG167885
Potassium, Total	10	mg/L	177		1.04	1.04		12/19/2019	12/19/2019	WG167885
Selenium, Total	10	mg/L	<.0052	U	.0052	.0052		12/19/2019	12/19/2019	WG167885
Silver, Total	10	mg/L	<.000416	U	.000416	.000416	1	12/19/2019	12/19/2019	WG167885
Sodium, Total	10	mg/L	498		1.04	1.04		12/19/2019	12/19/2019	WG167885
Thallium, Total	10	mg/L	<.00104	U	.00104	.00104		12/19/2019	12/19/2019	WG167885
Tin, Total	10	mg/L	.00931		.0052	.0052		12/19/2019	12/19/2019	WG167885
Vanadium, Total	10	mg/L	.0253		.000779	.000779		12/19/2019	12/19/2019	WG167885
Zinc, Total	10	mg/L	.058		.0052	.0052	5	12/19/2019	12/19/2019	WG167885
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/19/2019	12/20/2019	WG167897

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/03/2020
Report Group: CHLS-P_010320

Report To: Rosendo Jimenez
201 S Jackson St, Suite 701
Seattle, WA 98104-3855

Client Sample ID: LEPS191226P	CollectDate: 12/26/2019
SDG/Lab Sample ID: 15392 / L73905-1	LoginDate: 12/27/2019
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	1.38		.0502	.0502		12/30/2019	01/02/2020	WG167993
Antimony, Total	10	mg/L	.0105		.00301	.00301		12/30/2019	01/02/2020	WG167993
Arsenic, Total	10	mg/L	.0635		.000502	.000502	1	12/30/2019	01/02/2020	WG167993
Barium, Total	10	mg/L	.154		.00502	.00502		12/30/2019	01/02/2020	WG167993
Beryllium, Total	10	mg/L	<.001	U	.001	.001		12/30/2019	01/02/2020	WG167993
Cadmium, Total	10	mg/L	<.000502	U	.000502	.000502	0.5	12/30/2019	01/02/2020	WG167993
Calcium, Total	10	mg/L	104		.502	.502		12/30/2019	01/02/2020	WG167993
Chromium, Total	10	mg/L	.0499		.00201	.00201	2.75	12/30/2019	01/02/2020	WG167993
Cobalt, Total	10	mg/L	.0176		.000502	.000502		12/30/2019	01/02/2020	WG167993
Copper, Total	10	mg/L	.00984		.00201	.00201	3	12/30/2019	01/02/2020	WG167993
Iron, Total	10	mg/L	11.5	D	.1	.1		12/30/2019	01/03/2020	WG167993
Lead, Total	10	mg/L	.00178		.001	.001	2	12/30/2019	01/02/2020	WG167993
Magnesium, Total	10	mg/L	26.4	D	.502	.502		12/30/2019	01/03/2020	WG167993
Manganese, Total	10	mg/L	2.33	D	.001	.001		12/30/2019	01/03/2020	WG167993
Nickel, Total	10	mg/L	.0503	D	.001	.001	2.5	12/30/2019	01/03/2020	WG167993
Phosphorus, Total	10	mg/L	2.82		1	1		12/30/2019	01/02/2020	WG167993
Potassium, Total	10	mg/L	110		1	1		12/30/2019	01/02/2020	WG167993
Selenium, Total	10	mg/L	<.00502	U	.00502	.00502		12/30/2019	01/02/2020	WG167993
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	12/30/2019	01/02/2020	WG167993
Sodium, Total	10	mg/L	313		1	1		12/30/2019	01/02/2020	WG167993
Thallium, Total	10	mg/L	<.001	U	.001	.001		12/30/2019	01/02/2020	WG167993
Tin, Total	10	mg/L	<.00502	U	.00502	.00502		12/30/2019	01/02/2020	WG167993
Vanadium, Total	10	mg/L	.0194		.000753	.000753		12/30/2019	01/02/2020	WG167993
Zinc, Total	10	mg/L	.365		.00502	.00502	5	12/30/2019	01/02/2020	WG167993
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/30/2019	12/31/2019	WG167995

Client Sample ID: LEPS191226F	CollectDate: 12/26/2019
SDG/Lab Sample ID: 15392 / L73905-2	LoginDate: 12/27/2019
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	<.0493	U	.0493	.0493		12/30/2019	01/02/2020	WG167993
Antimony, Total	10	mg/L	<.00296	U	.00296	.00296		12/30/2019	01/02/2020	WG167993
Arsenic, Total	10	mg/L	<.000493	U	.000493	.000493	1	12/30/2019	01/02/2020	WG167993
Barium, Total	10	mg/L	<.00493	U	.00493	.00493		12/30/2019	01/02/2020	WG167993
Beryllium, Total	10	mg/L	<.000986	U	.000986	.000986		12/30/2019	01/02/2020	WG167993
Cadmium, Total	10	mg/L	<.000493	U	.000493	.000493	0.5	12/30/2019	01/02/2020	WG167993
Calcium, Total	10	mg/L	<.493	U	.493	.493		12/30/2019	01/02/2020	WG167993
Chromium, Total	10	mg/L	<.00197	U	.00197	.00197	2.75	12/30/2019	01/02/2020	WG167993
Cobalt, Total	10	mg/L	<.000493	U	.000493	.000493		12/30/2019	01/02/2020	WG167993
Copper, Total	10	mg/L	<.00197	U	.00197	.00197	3	12/30/2019	01/02/2020	WG167993
Iron, Total	10	mg/L	<.0986	DU	.0986	.0986		12/30/2019	01/03/2020	WG167993
Lead, Total	10	mg/L	<.000986	U	.000986	.000986	2	12/30/2019	01/02/2020	WG167993
Magnesium, Total	10	mg/L	<.493	DU	.493	.493		12/30/2019	01/03/2020	WG167993
Manganese, Total	10	mg/L	<.000986	DU	.000986	.000986		12/30/2019	01/03/2020	WG167993

Client Sample ID: LEPS191226F
SDG/Lab Sample ID: 15392 / L73905-2
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit

CollectDate: 12/26/2019
LoginDate: 12/27/2019
Matrix: LEACHATE

Constituent	Metals									
	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Nickel, Total	10	mg/L	<.000986	DU	.000986	.000986	2.5	12/30/2019	01/03/2020	WG167993
Phosphorus, Total	10	mg/L	<.986	U	.986	.986		12/30/2019	01/02/2020	WG167993
Potassium, Total	10	mg/L	<.986	U	.986	.986		12/30/2019	01/02/2020	WG167993
Selenium, Total	10	mg/L	<.00493	U	.00493	.00493		12/30/2019	01/02/2020	WG167993
Silver, Total	10	mg/L	<.000394	U	.000394	.000394	1	12/30/2019	01/02/2020	WG167993
Sodium, Total	10	mg/L	<.986	U	.986	.986		12/30/2019	01/02/2020	WG167993
Thallium, Total	10	mg/L	<.000986	U	.000986	.000986		12/30/2019	01/02/2020	WG167993
Tin, Total	10	mg/L	<.00493	U	.00493	.00493		12/30/2019	01/02/2020	WG167993
Vanadium, Total	10	mg/L	<.00074	U	.00074	.00074		12/30/2019	01/02/2020	WG167993
Zinc, Total	10	mg/L	<.00493	U	.00493	.00493	5	12/30/2019	01/02/2020	WG167993
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/30/2019	12/31/2019	WG167995

Target Parameter Count for SDG: 50

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: DECEMBER
YEAR: 2019

	BRIGHT		DUVALL		SPOK.		SPOK.		VASHON		HOBART		OTHER		REMARKS
	6000	7000	C.H.	6000	7000	6000	7000	6000	7000	C.H.	6000	7000	C.H.	6000	
1															
2															
3															
4															
5															
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19			3												
20									2						
21			4												
22			4												
23			2												
24															
25															
26			2												
27															
28															
29															
30															
31															
TOTAL	0	105000	0	0	0	0	0	0	14000	0	0	0	0	0	0

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	11/4/19 @ 06:48
Sample Count	Interval Time (sec)	Bump Test Date
23079	30	11/22/19 @ 09:00

H2S Readings

Date	Daily Max	Daily Average
12/3/2019	0.0	0.0000
12/4/2019	0.0	0.0000
12/5/2019	0.0	0.0000
12/6/2019	0.0	0.0000
12/7/2019	18.0	1.8750
12/8/2019	0.0	0.0000
12/9/2019	37.5	3.0771
12/10/2019	0.0	0.0000
12/11/2019	0.0	0.0000

