

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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

February 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, 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 January 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 1/5/21, 1/12/21, 1/20/21, and 1/26/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 1/4/21-1/14/21)
- Leachate Hauling Report (for January)

At monitoring location A90021, there were four arsenic loading exceedances measured during the month of January. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

Date of Exceedance	Date Reported to KCIW
1/5/21	1/15/21
1/12/21	1/21/21
1/20/21	1/28/21
1/26/21	2/8/21

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

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)

Laura Belt, Interim Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: JANUARY 2021

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												423,600	
2												1,041,400	
3												1,040,500	
4												1,594,200	
5	C	8.00	0.0343	0.5979	<0.0005	0.0044	0.0319	0.5560	0.00934	0.1628	<0.1 ppm	2,092,500	
6												1,548,100	
7												1,501,000	
8												1,370,300	
9												1,027,200	
10												838,800	
11												989,600	
12	C	7.70	0.0318	0.4009	<0.0005	0.0032	0.0329	0.4148	0.0101	0.1273	<0.1 ppm	1,511,700	
13												1,319,600	
14												1,584,600	
15												1,964,600	
16												1,174,600	
17												1,001,400	
18												745,800	
19												1,282,600	
20	C	6.39	0.0334	0.2911	<0.0005	0.0022	0.0313	0.2728	0.00805	0.0702	<0.1 ppm	1,045,100	
21												1,028,400	
22												1,043,500	
3												1,046,500	
24												1,036,100	
25												990,400	
26	C	8.27	0.0361	0.3124	<0.0005	0.0022	0.0299	0.2587	0.00744	0.0644	<0.1 ppm	1,037,500	
27												709,700	
28												733,000	
29												707,400	
30												0	
31												214,900	

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: Jennifer Keune Date: February 12, 2021

Monthly Min pH: 6.39
 Monthly Max pH: 8.27

1/20/21
1/26/21

Total Monthly Flow (gallons): 33,644,600
 Maximum Daily Flow: 2,092,500

1/5/2021

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

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: JANUARY 2021

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	C	0.00179	0.03120	<0.0001	0.00087	0.0378	0.659	<0.0004	0.0035	0.112	1.952	
6												
7												
8												
9												
10												
11												
12	C	0.00162	0.02042	<0.0001	0.00063	0.036	0.454	<0.0004	0.0025	0.122	1.538	
13												
14												
15												
16												
17												
18												
19												
20	C	0.0012	0.01046	<0.0001	0.00044	0.0351	0.306	<0.0004	0.0017	0.128	1.116	
21												
22												
23												
24												
25												
26	C	0.00101	0.00874	<0.0001	0.00043	0.0341	0.295	<0.0004	0.0017	0.105	0.909	
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 Jennifer Keune
 Date: February 12, 2021
 Signature of Principal Executive or Authorized Agent

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: JANUARY 2021

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>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.</p>
2				
3				
4	0	0	Y	
5	0	0	Y	
6	0	0	Y	
7	0	0	Y	
8	0	0	Y	
9	0	0	Y	
10	0	0	Y	
11	0	0	Y	
12	0	0	Y	
13	0	0	Y	
14	0	0	Y	
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Monthly MAX 0
Monthly AVG 0

1/4/21-1/14/21

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.

Jennifer Koura
Signature of Principal Executive or Authorized Agent
February 12, 2021
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 01/14/2021
 Report Group: CHLS-P_011421

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

Client Sample ID: LEPS210105P	CollectDate: 01/05/2021
SDG/Lab Sample ID: 16030 / L76152-1	LoginDate: 01/07/2021
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	1.52			.0497	.0497		01/07/2021	01/08/2021	WG173816
Antimony, Total	10	mg/L	.00536			.00298	.00298		01/07/2021	01/08/2021	WG173816
Arsenic, Total	10	mg/L	.0343			.000497	.000497	1	01/07/2021	01/08/2021	WG173816
Barium, Total	10	mg/L	.0724			.00497	.00497		01/07/2021	01/08/2021	WG173816
Beryllium, Total	10	mg/L	<.000994	U		.000994	.000994		01/07/2021	01/08/2021	WG173816
Cadmium, Total	10	mg/L	<.000497	U		.000497	.000497	0.5	01/07/2021	01/08/2021	WG173816
Calcium, Total	10	mg/L	91.9			.497	.497		01/07/2021	01/08/2021	WG173816
Chromium, Total	10	mg/L	.0319			.00199	.00199	2.75	01/07/2021	01/08/2021	WG173816
Cobalt, Total	10	mg/L	.0107			.000497	.000497		01/07/2021	01/08/2021	WG173816
Copper, Total	10	mg/L	.00934			.00199	.00199	3	01/07/2021	01/08/2021	WG173816
Iron, Total	10	mg/L	9.08			.0994	.0994		01/07/2021	01/08/2021	WG173816
Lead, Total	10	mg/L	.00179			.000994	.000994	2	01/07/2021	01/08/2021	WG173816
Magnesium, Total	10	mg/L	23.8			.497	.497		01/07/2021	01/08/2021	WG173816
Manganese, Total	10	mg/L	1.23			.000994	.000994		01/07/2021	01/08/2021	WG173816
Nickel, Total	10	mg/L	.0378			.000994	.000994	2.5	01/07/2021	01/08/2021	WG173816
Phosphorus, Total	10	mg/L	1.7			.994	.994		01/07/2021	01/08/2021	WG173816
Potassium, Total	10	mg/L	83.5			.994	.994		01/07/2021	01/08/2021	WG173816
Selenium, Total	10	mg/L	<.00497	U		.00497	.00497		01/07/2021	01/08/2021	WG173816
Silver, Total	10	mg/L	<.000398	U		.000398	.000398	1	01/07/2021	01/08/2021	WG173816
Sodium, Total	10	mg/L	228			.994	.994		01/07/2021	01/08/2021	WG173816
Thallium, Total	10	mg/L	<.000994	U		.000994	.000994		01/07/2021	01/08/2021	WG173816
Tin, Total	10	mg/L	<.00497	U		.00497	.00497		01/07/2021	01/08/2021	WG173816
Vanadium, Total	10	mg/L	.0116			.000746	.000746		01/07/2021	01/08/2021	WG173816
Zinc, Total	10	mg/L	.112			.00497	.00497	5	01/07/2021	01/08/2021	WG173816
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		01/08/2021	01/08/2021	WG173854

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 01/20/2021
 Report Group: CHLS-P_012021

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

Client Sample ID: LEPS210112P	CollectDate: 01/12/2021
SDG/Lab Sample ID: 16051 / L76242-1	LoginDate: 01/13/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	1.49		.05	.05		01/14/2021	01/14/2021	WG173943
Antimony, Total	10	mg/L	.00494		.003	.003		01/14/2021	01/14/2021	WG173943
Arsenic, Total	10	mg/L	.0318		.0005	.0005	1	01/14/2021	01/14/2021	WG173943
Barium, Total	10	mg/L	.0643		.005	.005		01/14/2021	01/14/2021	WG173943
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/14/2021	01/14/2021	WG173943
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	01/14/2021	01/14/2021	WG173943
Calcium, Total	10	mg/L	83.8		.5	.5		01/14/2021	01/14/2021	WG173943
Chromium, Total	10	mg/L	.0329		.002	.002	2.75	01/14/2021	01/14/2021	WG173943
Cobalt, Total	10	mg/L	.00956		.0005	.0005		01/14/2021	01/14/2021	WG173943
Copper, Total	10	mg/L	.0101		.002	.002	3	01/14/2021	01/14/2021	WG173943
Iron, Total	10	mg/L	7.89		.1	.1		01/14/2021	01/14/2021	WG173943
Lead, Total	10	mg/L	.00162		.001	.001	2	01/14/2021	01/14/2021	WG173943
Magnesium, Total	10	mg/L	22.6		.5	.5		01/14/2021	01/14/2021	WG173943
Manganese, Total	10	mg/L	1.08		.001	.001		01/14/2021	01/14/2021	WG173943
Nickel, Total	10	mg/L	.036		.001	.001	2.5	01/14/2021	01/14/2021	WG173943
Phosphorus, Total	10	mg/L	1.87		1	1		01/14/2021	01/14/2021	WG173943
Potassium, Total	10	mg/L	78		1	1		01/14/2021	01/14/2021	WG173943
Selenium, Total	10	mg/L	<.005	U	.005	.005		01/14/2021	01/14/2021	WG173943
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	01/14/2021	01/14/2021	WG173943
Sodium, Total	10	mg/L	217		1	1		01/14/2021	01/14/2021	WG173943
Thallium, Total	10	mg/L	<.001	U	.001	.001		01/14/2021	01/14/2021	WG173943
Tin, Total	10	mg/L	<.005	U	.005	.005		01/14/2021	01/14/2021	WG173943
Vanadium, Total	10	mg/L	.0111		.00075	.00075		01/14/2021	01/14/2021	WG173943
Zinc, Total	10	mg/L	.122		.005	.005	5	01/14/2021	01/14/2021	WG173943
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/15/2021	01/19/2021	WG173995

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 01/28/2021
 Report Group: CHLS-P_012821

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

Client Sample ID: LEPS210120P	CollectDate: 01/20/2021
SDG/Lab Sample ID: 15934 / L76276-1	LoginDate: 01/21/2021
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	.911			.0501	.0501		01/21/2021	01/22/2021	WG174099
Antimony, Total	10	mg/L	.00447			.003	.003		01/21/2021	01/22/2021	WG174099
Arsenic, Total	10	mg/L	.0334			.000501	.000501	1	01/21/2021	01/22/2021	WG174099
Barium, Total	10	mg/L	.0831			.00501	.00501		01/21/2021	01/22/2021	WG174099
Beryllium, Total	10	mg/L	<.001	U		.001	.001		01/21/2021	01/22/2021	WG174099
Cadmium, Total	10	mg/L	<.000501	U		.000501	.000501	0.5	01/21/2021	01/22/2021	WG174099
Calcium, Total	10	mg/L	103			.501	.501		01/21/2021	01/22/2021	WG174099
Chromium, Total	10	mg/L	.0313			.002	.002	2.75	01/21/2021	01/22/2021	WG174099
Cobalt, Total	10	mg/L	.0089			.000501	.000501		01/21/2021	01/22/2021	WG174099
Copper, Total	10	mg/L	.00805			.002	.002	3	01/21/2021	01/22/2021	WG174099
Iron, Total	10	mg/L	8.45			.1	.1		01/21/2021	01/22/2021	WG174099
Lead, Total	10	mg/L	.0012			.001	.001	2	01/21/2021	01/22/2021	WG174099
Magnesium, Total	10	mg/L	24			.501	.501		01/21/2021	01/22/2021	WG174099
Manganese, Total	10	mg/L	1.57			.001	.001		01/21/2021	01/22/2021	WG174099
Nickel, Total	10	mg/L	.0351			.001	.001	2.5	01/21/2021	01/22/2021	WG174099
Phosphorus, Total	10	mg/L	1.88			1	1		01/21/2021	01/22/2021	WG174099
Potassium, Total	10	mg/L	82.8			1	1		01/21/2021	01/22/2021	WG174099
Selenium, Total	10	mg/L	<.00501	U		.00501	.00501		01/21/2021	01/22/2021	WG174099
Silver, Total	10	mg/L	<.000401	U		.000401	.000401	1	01/21/2021	01/22/2021	WG174099
Sodium, Total	10	mg/L	231			1	1		01/21/2021	01/22/2021	WG174099
Thallium, Total	10	mg/L	<.001	U		.001	.001		01/21/2021	01/22/2021	WG174099
Tin, Total	10	mg/L	<.00501	U		.00501	.00501		01/21/2021	01/22/2021	WG174099
Vanadium, Total	10	mg/L	.0118			.000751	.000751		01/21/2021	01/22/2021	WG174099
Zinc, Total	10	mg/L	.128			.00501	.00501	5	01/21/2021	01/22/2021	WG174099
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		01/21/2021	01/22/2021	WG174101

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 02/08/2021
 Report Group: CHLS-P_020321

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

Client Sample ID: LEPS210126P	CollectDate: 01/26/2021
SDG/Lab Sample ID: 15940 / L76272-1	LoginDate: 01/27/2021
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	.649			.0492	.0492		01/28/2021	02/01/2021	WG174182
Antimony, Total	10	mg/L	.0046			.00295	.00295		01/28/2021	02/01/2021	WG174182
Arsenic, Total	10	mg/L	.0361			.000492	.000492	1	01/28/2021	02/01/2021	WG174182
Barium, Total	10	mg/L	.0666			.00492	.00492		01/28/2021	02/01/2021	WG174182
Beryllium, Total	10	mg/L	<.000983	U		.000983	.000983		01/28/2021	02/01/2021	WG174182
Cadmium, Total	10	mg/L	<.000492	U		.000492	.000492	0.5	01/28/2021	02/01/2021	WG174182
Calcium, Total	10	mg/L	78.1			.492	.492		01/28/2021	02/01/2021	WG174182
Chromium, Total	10	mg/L	.0299			.00197	.00197	2.75	01/28/2021	02/01/2021	WG174182
Cobalt, Total	10	mg/L	.00853			.000492	.000492		01/28/2021	02/01/2021	WG174182
Copper, Total	10	mg/L	.00744			.00197	.00197	3	01/28/2021	02/01/2021	WG174182
Iron, Total	10	mg/L	6.36			.0983	.0983		01/28/2021	02/01/2021	WG174182
Lead, Total	10	mg/L	.00101			.000983	.000983	2	01/28/2021	02/01/2021	WG174182
Magnesium, Total	10	mg/L	22.5			.492	.492		01/28/2021	02/01/2021	WG174182
Manganese, Total	10	mg/L	1.03			.000983	.000983		01/28/2021	02/01/2021	WG174182
Nickel, Total	10	mg/L	.0341			.000983	.000983	2.5	01/28/2021	02/01/2021	WG174182
Phosphorus, Total	10	mg/L	1.65			.983	.983		01/28/2021	02/01/2021	WG174182
Potassium, Total	10	mg/L	86.6			.983	.983		01/28/2021	02/01/2021	WG174182
Selenium, Total	10	mg/L	<.00492	U		.00492	.00492		01/28/2021	02/01/2021	WG174182
Silver, Total	10	mg/L	<.000393	U		.000393	.000393	1	01/28/2021	02/01/2021	WG174182
Sodium, Total	10	mg/L	241			.983	.983		01/28/2021	02/01/2021	WG174182
Thallium, Total	10	mg/L	<.000983	U		.000983	.000983		01/28/2021	02/01/2021	WG174182
Tin, Total	10	mg/L	<.00492	U		.00492	.00492		01/28/2021	02/01/2021	WG174182
Vanadium, Total	10	mg/L	.011			.000737	.000737		01/28/2021	02/01/2021	WG174182
Zinc, Total	10	mg/L	.105			.00492	.00492	5	01/28/2021	02/01/2021	WG174182
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		01/28/2021	01/29/2021	WG174214

Client Sample ID: LEPS210126D	CollectDate: 01/26/2021
SDG/Lab Sample ID: 15940 / L76272-2	LoginDate: 01/27/2021
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	.891			.0498	.0498		01/28/2021	02/01/2021	WG174182
Antimony, Total	10	mg/L	.00479			.00299	.00299		01/28/2021	02/01/2021	WG174182
Arsenic, Total	10	mg/L	.0367			.000498	.000498	1	01/28/2021	02/01/2021	WG174182
Barium, Total	10	mg/L	.0695			.00498	.00498		01/28/2021	02/01/2021	WG174182
Beryllium, Total	10	mg/L	<.000995	U		.000995	.000995		01/28/2021	02/01/2021	WG174182
Cadmium, Total	10	mg/L	<.000498	U		.000498	.000498	0.5	01/28/2021	02/01/2021	WG174182
Calcium, Total	10	mg/L	79.3			.498	.498		01/28/2021	02/01/2021	WG174182
Chromium, Total	10	mg/L	.0308			.00199	.00199	2.75	01/28/2021	02/01/2021	WG174182
Cobalt, Total	10	mg/L	.0085			.000498	.000498		01/28/2021	02/01/2021	WG174182
Copper, Total	10	mg/L	.00752			.00199	.00199	3	01/28/2021	02/01/2021	WG174182
Iron, Total	10	mg/L	6.44			.0995	.0995		01/28/2021	02/01/2021	WG174182
Lead, Total	10	mg/L	.00103			.000995	.000995	2	01/28/2021	02/01/2021	WG174182
Magnesium, Total	10	mg/L	23			.498	.498		01/28/2021	02/01/2021	WG174182
Manganese, Total	10	mg/L	1.04			.000995	.000995		01/28/2021	02/01/2021	WG174182

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	12/10/20 @ 11:21
Sample Count	Interval Time (sec)	Bump Test Date
28675	30	12/31/20 @ 07:45
H2S Readings		
Date	Daily Max	Daily Average
1/4/2021	0	0
1/5/2021	0	0
1/6/2021	0	0
1/7/2021	0	0
1/8/2021	0	0
1/9/2021	0	0
1/10/2021	0	0
1/11/2021	0	0
1/12/2021	0	0
1/13/2021	0	0
1/14/2021	0	0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JANUARY
YEAR: 2021

DATE	BRIGHT		DUVALL		SPOK.		VASHON		HOBART		OTHER		REMARKS	
	6000	7000	C.H.	6000	7000	6000	7000	SPOK.	C.H.	6000	7000	C.H.		6000
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
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16														
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21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
TOTAL	0	189000.00	0	28000.00	0	84000.00	0	315000.00	0	14000.00	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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

March 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of February 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 2/4/21, 2/16/21, and 2/23/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 2/1/21-2/3/21; 2/17/21-2/23/21)
- Leachate Hauling Report (for February)

At monitoring location A90021, there were three arsenic loading exceedances measured during the month of February. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

Date of Exceedance	Date Reported to KCIW
2/4/21	2/16/21
2/16/21	3/2/21
2/23/21	3/8/21

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

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)

Laura Belt, Interim Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: FEBRUARY 2021

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												723,500	
3												992,900	
4	C	8.30	0.0517	0.4286	<0.0005	0.0021	0.0434	0.3598	0.00992	0.0822	<0.1 ppm	994,100	
5												1,032,300	
6												855,100	
7												1,059,400	
8												638,100	
9	C	8.26	0.0459	0.2689	<0.0005	0.0015	0.0363	0.2126	0.00507	0.0297	<0.1 ppm	702,400	
10												526,400	
11												1,054,200	
12												1,060,000	
13												891,600	
14												904,700	
15												394,300	
16	C	8.34	0.0498	0.3815	<0.0005	0.0019	0.0413	0.3164	0.0112	0.0858	<0.1 ppm	918,500	
17												440,000	
18												447,200	
19												692,100	
20												1,038,800	
21												1,053,800	
22												882,800	
23	C	8.18	0.0467	0.4022	<0.0005	0.0022	0.0367	0.3161	0.00671	0.0578	<0.1 ppm	1,032,700	
24												934,900	
25												979,000	
26												1,059,200	
27												526,000	
28												521,100	
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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent
 Date: 3/12/2021

Monthly Min pH: 8.18
 Monthly Max pH: 8.34

2/23/21
 2/16/21

Total Monthly Flow (gallons): 22,355,100
 Maximum Daily Flow: 1,060,000

2/12/2021

DocuSign Envelope ID: DFE51C3D-BD88-4781-A8A3-546DA303CB0F

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

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: FEBRUARY 2021

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	C	0.00155	0.01285	<0.0001	0.00041	0.0468	0.388	<0.0004	0.0017	0.13	1.078	
5												
6												
7												
8												
9	C	0.000493	0.00289	<0.0001	0.00029	0.0442	0.259	<0.0004	0.0012	0.0755	0.442	
10												
11												
12												
13												
14												
15												
16	C	0.00168	0.01287	<0.0001	0.00038	0.0457	0.350	<0.0004	0.0015	0.131	1.003	
17												
18												
19												
20												
21												
22												
23	C	0.00107	0.00922	<0.0001	0.00043	0.0452	0.389	<0.0004	0.0017	0.105	0.904	
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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent
 Date: 3/12/2021

DocuSign Envelope ID: DFE51C3D-BD88-4781-A8A3-546DA303CB0F

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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



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: FEBRUARY 2021

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	0.0	0.0	N	A power failure was discovered after picking up the Eagle from R10-52 on 2/9. SWD took the meter to get serviced and re-calibrated. The meter was replaced on 2/17 to meet regulatory requirements set in Permit No. 7842-03.
2	0.0	0.0	Y	
3	0.0	0.0	Y	
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
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		2/1-2/3; 2/17-2/23	<p>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.</p>
Monthly AVG	0			

DocuSigned by:

 Signature of Principal Executive or Authorized Agent
 3/12/2021
 Date

DocuSign Envelope ID: DFE51C3D-BD88-4781-A8A3-546DA303CB0F

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: 02/11/2021
 Report Group: CHLS-P_021121

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

Client Sample ID: LEPS210204P	CollectDate: 02/04/2021
SDG/Lab Sample ID: 16022 / L76349-1	LoginDate: 02/05/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals			Reg Limit	Prep Date	Run Date	Run	
			Results	Q	MDL					RDL
Aluminum, Total	10	mg/L	1.11		.0496	.0496		02/05/2021	02/09/2021	WG174323
Antimony, Total	10	mg/L	.00598		.00298	.00298		02/05/2021	02/09/2021	WG174323
Arsenic, Total	10	mg/L	.0517		.000496	.000496	1	02/05/2021	02/09/2021	WG174323
Barium, Total	10	mg/L	.0802		.00496	.00496		02/05/2021	02/09/2021	WG174323
Beryllium, Total	10	mg/L	<.000992	U	.000992	.000992		02/05/2021	02/09/2021	WG174323
Cadmium, Total	10	mg/L	<.000496	U	.000496	.000496	0.5	02/05/2021	02/09/2021	WG174323
Calcium, Total	10	mg/L	98.2		.496	.496		02/05/2021	02/09/2021	WG174323
Chromium, Total	10	mg/L	.0434		.00198	.00198	2.75	02/05/2021	02/09/2021	WG174323
Cobalt, Total	10	mg/L	.0116		.000496	.000496		02/05/2021	02/09/2021	WG174323
Copper, Total	10	mg/L	.00992		.00198	.00198	3	02/05/2021	02/09/2021	WG174323
Iron, Total	10	mg/L	8.63		.0992	.0992		02/05/2021	02/09/2021	WG174323
Lead, Total	10	mg/L	.00155		.000992	.000992	2	02/05/2021	02/09/2021	WG174323
Magnesium, Total	10	mg/L	27.9		.496	.496		02/05/2021	02/09/2021	WG174323
Manganese, Total	10	mg/L	1.3		.000992	.000992		02/05/2021	02/09/2021	WG174323
Nickel, Total	10	mg/L	.0468		.000992	.000992	2.5	02/05/2021	02/09/2021	WG174323
Phosphorus, Total	10	mg/L	2.27		.992	.992		02/05/2021	02/09/2021	WG174323
Potassium, Total	10	mg/L	116		.992	.992		02/05/2021	02/09/2021	WG174323
Selenium, Total	10	mg/L	<.00496	U	.00496	.00496		02/05/2021	02/09/2021	WG174323
Silver, Total	10	mg/L	<.000397	U	.000397	.000397	1	02/05/2021	02/09/2021	WG174323
Sodium, Total	10	mg/L	313		.992	.992		02/05/2021	02/09/2021	WG174323
Thallium, Total	10	mg/L	<.000992	U	.000992	.000992		02/05/2021	02/09/2021	WG174323
Tin, Total	10	mg/L	.00542		.00496	.00496		02/05/2021	02/09/2021	WG174323
Vanadium, Total	10	mg/L	.0144		.000744	.000744		02/05/2021	02/09/2021	WG174323
Zinc, Total	10	mg/L	.13		.00496	.00496	5	02/05/2021	02/09/2021	WG174323
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/08/2021	02/09/2021	WG174345

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 02/19/2021
 Report Group: CHLS-P_021721

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

Client Sample ID: LEPS210209P	CollectDate: 02/09/2021
SDG/Lab Sample ID: 16043 / L76394-1	LoginDate: 02/10/2021
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	.465		.0493	.0493		02/18/2021	02/18/2021	WG174382
Antimony, Total	10	mg/L	.00537		.00296	.00296		02/18/2021	02/18/2021	WG174382
Arsenic, Total	10	mg/L	.0459		.000493	.000493	1	02/18/2021	02/18/2021	WG174382
Barium, Total	10	mg/L	.0649		.00493	.00493		02/18/2021	02/18/2021	WG174382
Beryllium, Total	10	mg/L	<.000986	U	.000986	.000986		02/18/2021	02/18/2021	WG174382
Cadmium, Total	10	mg/L	<.000493	U	.000493	.000493	0.5	02/18/2021	02/18/2021	WG174382
Calcium, Total	10	mg/L	91.6		.493	.493		02/18/2021	02/18/2021	WG174382
Chromium, Total	10	mg/L	.0363		.00197	.00197	2.75	02/18/2021	02/18/2021	WG174382
Cobalt, Total	10	mg/L	.0107		.000493	.000493		02/18/2021	02/18/2021	WG174382
Copper, Total	10	mg/L	.00507		.00197	.00197	3	02/18/2021	02/18/2021	WG174382
Iron, Total	10	mg/L	6.89		.0986	.0986		02/18/2021	02/18/2021	WG174382
Lead, Total	10	mg/L	<.000986	U	.000986	.000986	2	02/18/2021	02/18/2021	WG174382
Magnesium, Total	10	mg/L	27.5		.493	.493		02/18/2021	02/18/2021	WG174382
Manganese, Total	10	mg/L	1.13		.000986	.000986		02/18/2021	02/18/2021	WG174382
Nickel, Total	10	mg/L	.0442		.000986	.000986	2.5	02/18/2021	02/18/2021	WG174382
Phosphorus, Total	10	mg/L	1.92		.986	.986		02/18/2021	02/18/2021	WG174382
Potassium, Total	10	mg/L	110		.986	.986		02/18/2021	02/18/2021	WG174382
Selenium, Total	10	mg/L	<.00493	U	.00493	.00493		02/18/2021	02/18/2021	WG174382
Silver, Total	10	mg/L	<.000395	U	.000395	.000395	1	02/18/2021	02/18/2021	WG174382
Sodium, Total	10	mg/L	311		.986	.986		02/18/2021	02/18/2021	WG174382
Thallium, Total	10	mg/L	<.000986	U	.000986	.000986		02/18/2021	02/18/2021	WG174382
Tin, Total	10	mg/L	.00565		.00493	.00493		02/18/2021	02/18/2021	WG174382
Vanadium, Total	10	mg/L	.0121		.00074	.00074		02/18/2021	02/18/2021	WG174382
Zinc, Total	10	mg/L	.0755		.00493	.00493	5	02/18/2021	02/18/2021	WG174382
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/11/2021	02/11/2021	WG174388

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 02/28/2021
 Report Group: CHLS-P_022521

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

Client Sample ID: LEPS210216P	CollectDate: 02/16/2021
SDG/Lab Sample ID: 16057 / L76401-1	LoginDate: 02/18/2021
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	2.09	J	.05	.05		02/19/2021	02/22/2021	WG174495
Antimony, Total	10	mg/L	.0058		.003	.003		02/19/2021	02/22/2021	WG174495
Arsenic, Total	10	mg/L	.0498		.0005	.0005	1	02/19/2021	02/22/2021	WG174495
Barium, Total	10	mg/L	.0824		.005	.005		02/19/2021	02/22/2021	WG174495
Beryllium, Total	10	mg/L	<.000999	U	.000999	.000999		02/19/2021	02/22/2021	WG174495
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/19/2021	02/22/2021	WG174495
Calcium, Total	10	mg/L	101		.5	.5		02/19/2021	02/22/2021	WG174495
Chromium, Total	10	mg/L	.0413		.002	.002	2.75	02/19/2021	02/22/2021	WG174495
Cobalt, Total	10	mg/L	.0116		.0005	.0005		02/19/2021	02/22/2021	WG174495
Copper, Total	10	mg/L	.0112		.002	.002	3	02/19/2021	02/22/2021	WG174495
Iron, Total	10	mg/L	9.67		.0999	.0999		02/19/2021	02/22/2021	WG174495
Lead, Total	10	mg/L	.00168		.000999	.000999	2	02/19/2021	02/22/2021	WG174495
Magnesium, Total	10	mg/L	29.5		.5	.5		02/19/2021	02/22/2021	WG174495
Manganese, Total	10	mg/L	1.26		.000999	.000999		02/19/2021	02/22/2021	WG174495
Nickel, Total	10	mg/L	.0457		.000999	.000999	2.5	02/19/2021	02/22/2021	WG174495
Phosphorus, Total	10	mg/L	2.54		.999	.999		02/19/2021	02/22/2021	WG174495
Potassium, Total	10	mg/L	115		.999	.999		02/19/2021	02/22/2021	WG174495
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/19/2021	02/22/2021	WG174495
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/19/2021	02/22/2021	WG174495
Sodium, Total	10	mg/L	324		.999	.999		02/19/2021	02/22/2021	WG174495
Thallium, Total	10	mg/L	<.000999	U	.000999	.000999		02/19/2021	02/22/2021	WG174495
Tin, Total	10	mg/L	.00524		.005	.005		02/19/2021	02/22/2021	WG174495
Vanadium, Total	10	mg/L	.0153		.000749	.000749		02/19/2021	02/22/2021	WG174495
Zinc, Total	10	mg/L	.131		.005	.005	5	02/19/2021	02/22/2021	WG174495
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/22/2021	02/23/2021	WG174524

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 03/05/2021
 Report Group: CHLS-P_030321

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

Client Sample ID: LEPS210223P	CollectDate: 02/23/2021
SDG/Lab Sample ID: 16141 / L76438-1	LoginDate: 02/24/2021
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	.67		.0502	.0502		02/25/2021	03/01/2021	WG174571
Antimony, Total	10	mg/L	.00567		.00301	.00301		02/25/2021	03/01/2021	WG174571
Arsenic, Total	10	mg/L	.0467		.000502	.000502	1	02/25/2021	03/01/2021	WG174571
Barium, Total	10	mg/L	.062		.00502	.00502		02/25/2021	03/01/2021	WG174571
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/25/2021	03/01/2021	WG174571
Cadmium, Total	10	mg/L	<.000502	U	.000502	.000502	0.5	02/25/2021	03/01/2021	WG174571
Calcium, Total	10	mg/L	95.1		.502	.502		02/25/2021	03/01/2021	WG174571
Chromium, Total	10	mg/L	.0367		.00201	.00201	2.75	02/25/2021	03/01/2021	WG174571
Cobalt, Total	10	mg/L	.0111		.000502	.000502		02/25/2021	03/01/2021	WG174571
Copper, Total	10	mg/L	.00671		.00201	.00201	3	02/25/2021	03/01/2021	WG174571
Iron, Total	10	mg/L	8.86		.1	.1		02/25/2021	03/01/2021	WG174571
Lead, Total	10	mg/L	.00107		.001	.001	2	02/25/2021	03/01/2021	WG174571
Magnesium, Total	10	mg/L	28.8		.502	.502		02/25/2021	03/01/2021	WG174571
Manganese, Total	10	mg/L	.829		.001	.001		02/25/2021	03/01/2021	WG174571
Nickel, Total	10	mg/L	.0452		.001	.001	2.5	02/25/2021	03/01/2021	WG174571
Phosphorus, Total	10	mg/L	2.41		1	1		02/25/2021	03/01/2021	WG174571
Potassium, Total	10	mg/L	112		1	1		02/25/2021	03/01/2021	WG174571
Selenium, Total	10	mg/L	<.000502	U	.00502	.00502		02/25/2021	03/01/2021	WG174571
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	02/25/2021	03/01/2021	WG174571
Sodium, Total	10	mg/L	316		1	1		02/25/2021	03/01/2021	WG174571
Thallium, Total	10	mg/L	<.001	U	.001	.001		02/25/2021	03/01/2021	WG174571
Tin, Total	10	mg/L	<.00502	U	.00502	.00502		02/25/2021	03/01/2021	WG174571
Vanadium, Total	10	mg/L	.0122		.000753	.000753		02/25/2021	03/01/2021	WG174571
Zinc, Total	10	mg/L	.105		.00502	.00502	5	02/25/2021	03/01/2021	WG174571
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/25/2021	02/26/2021	WG174587

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	12/10/20 @ 11:22 and 02/12/21 @ 11:44
Sample Count	Interval Time (sec)	Bump Test Date
23093	30	02/01/21 @ 07:53
H2S Readings		
Date	Daily Max	Daily Average
2/1/2021	0	0
2/2/2021	0	0
2/3/2021	0	0
Battery failure occurred on 2/3-- put Eagle meter back in on 2/17 to fulfill permit requirements		
2/17/2021	0	0
2/18/2021	0	0
2/19/2021	0	0
2/20/2021	0	0
2/21/2021	0	0
2/22/2021	0	0
2/23/2021	0	0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: FEBRUARY
YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS		
	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.				
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000			
1															
2		3.00						4.00							
3		2.00						2.00							
4								2.00							
5								4.00							
6				2.00				2.00							
7								2.00							
8		2.00		1.00				2.00							
9															
10		4.00													
11								2.00							
12		2.00						1.00							
13															
14															
15															
16								2.00							
17		3.00						2.00							
18								4.00							
19		2.00						2.00							
20		0.00						2.00							
21								1.00	1.00						
22		3.00		1.00				2.00							
23		2.00						2.00							
24															
25		2.00						1.00							
26															
27				2.00											
28															
29															
30															
31															
TOTAL	0	#####	0	42000.00	0	0.00	0	273000.00	0	7000.00	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 5701

Seattle, WA 98104-3855


206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

April 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of March 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 3/2/21, 3/10/21, 3/16/21, 3/23/21 and 3/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 3/1/21-3/9/21)
- Leachate Hauling Report (for March)

At monitoring location A90021, there were three arsenic loading exceedances measured during the month of March. All other results met permit-specified limits. KCIW was notified of the exceedances as follows:

Date of Exceedance	Date Reported to KCIW
3/16/21	3/29/21
3/23/21	4/2/21
3/30/21	4/8/21

Details of these exceedances will be provided in one 14-day report appended to this SMR, per KCIW guidance.

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)
Laura Belt, Interim Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD

Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: MARCH 2021

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												876,400	
2	C	8.15	0.0427	0.1575	<0.0005	0.0009	0.0344	0.1269	0.00801	0.0295	< 0.1	442,200	
3												992,500	
4												437,500	
5												1,023,100	
6												420,600	
7												420,600	
8												414,600	
9												577,200	
10	C	8.16	0.0535	0.1975	<0.0005	0.0009	0.0443	0.1635	0.00725	0.0268	< 0.1	442,600	
11												0	
12												0	
13												514,900	
14												524,000	
15												0	
16	C	8.11	0.156	0.7143	<0.0005	0.0011	0.054	0.2472	0.00654	0.0299	< 0.1	549,000	
17												417,700	
18												466,100	
19												541,900	
20												0	
21												0	
22												517,600	
23	C	8.26	0.203	0.9574	<0.0005	0.0012	0.0562	0.2651	0.00574	0.0271	< 0.1	565,500	
24												96,600	
25												908,300	
26												557,100	
27												558,500	
28												556,000	
29												567,100	
30	C	8.20	0.17	0.7852	<0.0005	0.0012	0.0601	0.2776	0.00677	0.0313	< 0.1	553,800	
31												114,600	

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.

4/15/2021

Orange Kume

Signature of Representative or Authorized Agent

Date

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

Monthly Min pH: 8.11
 Monthly Max pH: 8.26

3/16/21
 3/23/21

Total Monthly Flow (gallons): 14,056,000
 Maximum Daily Flow: 1,023,100

3/5/2021

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

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: MARCH 2021

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	0.0012	0.00443	<0.0001	0.00018	0.0424	0.156	<0.0004	0.0007	0.116	0.428	
3												
4												
5												
6												
7												
8												
9												
10	C	0.00104	0.00384	<0.0001	0.00018	0.0478	0.176	<0.0004	0.0007	0.128	0.472	
11												
12												
13												
14												
15												
16	C	0.00102	0.00467	<0.0001	0.00023	0.0577	0.264	<0.0004	0.0009	0.122	0.559	
17												
18												
19												
20												
21												
22												
23	C	<0.00101	0.00238	<0.0001	0.00024	0.058	0.274	<0.0004	0.0009	0.123	0.580	
24												
25												
26												
27												
28												
29												
30	C	0.00107	0.00494	<0.0001	0.00023	0.0621	0.287	<0.0004	0.0009	0.142	0.656	
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.

Christine J. Kuntz
Signature of Principal Executive or Authorized Agent

4/15/2021

Date

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

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: MARCH 2021

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	0.0	0.0	Y	<p>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.</p> <p>DocuSigned by: <i>Orange Kunn</i> A70F569A4E93E44A Signature of Principal Executive or Authorized Agent</p> <p style="text-align: right;">Date <u>4/15/2021</u></p>
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				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	0.0			
Monthly AVG	0.0			

3/1/21-3/9/21

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

DocuSign Envelope ID: 15DAEDB8-F0D0-4A49-A039-E6D02A571A3D

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 03/11/2021
 Report Group: CHLS-P_031021

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

Client Sample ID: LEPS210302P	CollectDate: 03/02/2021
SDG/Lab Sample ID: 16102 / L76471-1	LoginDate: 03/03/2021
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	1.12		.0501	.0501		03/04/2021	03/05/2021	WG174673
Antimony, Total	10	mg/L	.00525		.003	.003		03/04/2021	03/05/2021	WG174673
Arsenic, Total	10	mg/L	.0427		.000501	.000501	1	03/04/2021	03/05/2021	WG174673
Barium, Total	10	mg/L	.067		.00501	.00501		03/04/2021	03/05/2021	WG174673
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/04/2021	03/05/2021	WG174673
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	03/04/2021	03/05/2021	WG174673
Calcium, Total	10	mg/L	103		.501	.501		03/04/2021	03/05/2021	WG174673
Chromium, Total	10	mg/L	.0344		.002	.002	2.75	03/04/2021	03/05/2021	WG174673
Cobalt, Total	10	mg/L	.0103		.000501	.000501		03/04/2021	03/05/2021	WG174673
Copper, Total	10	mg/L	.00801		.002	.002	3	03/04/2021	03/05/2021	WG174673
Iron, Total	10	mg/L	9.51		.1	.1		03/04/2021	03/05/2021	WG174673
Lead, Total	10	mg/L	.0012		.001	.001	2	03/04/2021	03/05/2021	WG174673
Magnesium, Total	10	mg/L	27.2		.501	.501		03/04/2021	03/05/2021	WG174673
Manganese, Total	10	mg/L	1.1		.001	.001		03/04/2021	03/05/2021	WG174673
Nickel, Total	10	mg/L	.0424		.001	.001	2.5	03/04/2021	03/05/2021	WG174673
Phosphorus, Total	10	mg/L	2.38		1	1		03/04/2021	03/05/2021	WG174673
Potassium, Total	10	mg/L	105		1	1		03/04/2021	03/05/2021	WG174673
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		03/04/2021	03/05/2021	WG174673
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	03/04/2021	03/05/2021	WG174673
Sodium, Total	10	mg/L	286		1	1		03/04/2021	03/05/2021	WG174673
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/04/2021	03/05/2021	WG174673
Tin, Total	10	mg/L	.00509		.00501	.00501		03/04/2021	03/05/2021	WG174673
Vanadium, Total	10	mg/L	.0119		.000751	.000751		03/04/2021	03/05/2021	WG174673
Zinc, Total	10	mg/L	.116		.00501	.00501	5	03/04/2021	03/05/2021	WG174673
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/04/2021	03/05/2021	WG174681

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 03/23/2021
 Report Group: CHLS-P_031721

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

Client Sample ID: LEPS210310P	CollectDate: 03/10/2021
SDG/Lab Sample ID: 16071 / L76541-1	LoginDate: 03/10/2021
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	1.04		.0494	.0494		03/11/2021	03/11/2021	WG174771
Antimony, Total	10	mg/L	.00691		.00296	.00296		03/11/2021	03/11/2021	WG174771
Arsenic, Total	10	mg/L	.0535		.000494	.000494	1	03/11/2021	03/11/2021	WG174771
Barium, Total	10	mg/L	.0751		.00494	.00494		03/11/2021	03/11/2021	WG174771
Beryllium, Total	10	mg/L	<.000988	U	.000988	.000988		03/11/2021	03/11/2021	WG174771
Cadmium, Total	10	mg/L	<.000494	U	.000494	.000494	0.5	03/11/2021	03/11/2021	WG174771
Calcium, Total	10	mg/L	114		.494	.494		03/11/2021	03/11/2021	WG174771
Chromium, Total	10	mg/L	.0443		.00198	.00198	2.75	03/11/2021	03/11/2021	WG174771
Cobalt, Total	10	mg/L	.0123		.000494	.000494		03/11/2021	03/11/2021	WG174771
Copper, Total	10	mg/L	.00725		.00198	.00198	3	03/11/2021	03/11/2021	WG174771
Iron, Total	10	mg/L	9.37		.0988	.0988		03/11/2021	03/11/2021	WG174771
Lead, Total	10	mg/L	.00104		.000988	.000988	2	03/11/2021	03/11/2021	WG174771
Magnesium, Total	10	mg/L	31.3		.494	.494		03/11/2021	03/11/2021	WG174771
Manganese, Total	10	mg/L	1.22		.000988	.000988		03/11/2021	03/11/2021	WG174771
Nickel, Total	10	mg/L	.0478		.000988	.000988	2.5	03/11/2021	03/11/2021	WG174771
Phosphorus, Total	10	mg/L	2.76		.988	.988		03/11/2021	03/11/2021	WG174771
Potassium, Total	10	mg/L	122		.988	.988		03/11/2021	03/11/2021	WG174771
Selenium, Total	10	mg/L	<.00494	U	.00494	.00494		03/11/2021	03/11/2021	WG174771
Silver, Total	10	mg/L	<.000395	U	.000395	.000395	1	03/11/2021	03/11/2021	WG174771
Sodium, Total	10	mg/L	349		.988	.988		03/11/2021	03/11/2021	WG174771
Thallium, Total	10	mg/L	<.000988	U	.000988	.000988		03/11/2021	03/11/2021	WG174771
Tin, Total	10	mg/L	.00585		.00494	.00494		03/11/2021	03/11/2021	WG174771
Vanadium, Total	10	mg/L	.014		.000741	.000741		03/11/2021	03/11/2021	WG174771
Zinc, Total	10	mg/L	.128		.00494	.00494	5	03/11/2021	03/11/2021	WG174771
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/11/2021	03/15/2021	WG174797

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 03/26/2021
 Report Group: CHLS-P_032421

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

Client Sample ID: LEPS210316P	CollectDate: 03/16/2021
SDG/Lab Sample ID: 16147 / L76551-1	LoginDate: 03/17/2021
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	.864		.0501	.0501		03/18/2021	03/18/2021	WG174892
Antimony, Total	10	mg/L	.0211		.00301	.00301		03/18/2021	03/18/2021	WG174892
Arsenic, Total	10	mg/L	.156		.000501	.000501	1	03/18/2021	03/18/2021	WG174892
Barium, Total	10	mg/L	.0828		.00501	.00501		03/18/2021	03/18/2021	WG174892
Beryllium, Total	10	mg/L	<.001	U	.001	.001		03/18/2021	03/18/2021	WG174892
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	03/18/2021	03/18/2021	WG174892
Calcium, Total	10	mg/L	120		.501	.501		03/18/2021	03/18/2021	WG174892
Chromium, Total	10	mg/L	.054		.00201	.00201	2.75	03/18/2021	03/18/2021	WG174892
Cobalt, Total	10	mg/L	.0139		.000501	.000501		03/18/2021	03/18/2021	WG174892
Copper, Total	10	mg/L	.00654		.00201	.00201	3	03/18/2021	03/18/2021	WG174892
Iron, Total	10	mg/L	10.1		.1	.1		03/18/2021	03/18/2021	WG174892
Lead, Total	10	mg/L	.00102		.001	.001	2	03/18/2021	03/18/2021	WG174892
Magnesium, Total	10	mg/L	36.1		.501	.501		03/18/2021	03/18/2021	WG174892
Manganese, Total	10	mg/L	1.24		.001	.001		03/18/2021	03/18/2021	WG174892
Nickel, Total	10	mg/L	.0577		.001	.001	2.5	03/18/2021	03/18/2021	WG174892
Phosphorus, Total	10	mg/L	3.03		1	1		03/18/2021	03/18/2021	WG174892
Potassium, Total	10	mg/L	146		1	1		03/18/2021	03/18/2021	WG174892
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		03/18/2021	03/18/2021	WG174892
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	03/18/2021	03/18/2021	WG174892
Sodium, Total	10	mg/L	402		1	1		03/18/2021	03/18/2021	WG174892
Thallium, Total	10	mg/L	<.001	U	.001	.001		03/18/2021	03/18/2021	WG174892
Tin, Total	10	mg/L	.00693		.00501	.00501		03/18/2021	03/18/2021	WG174892
Vanadium, Total	10	mg/L	.0159	D	.000752	.000752		03/18/2021	03/19/2021	WG174892
Zinc, Total	10	mg/L	.122		.00501	.00501	5	03/18/2021	03/18/2021	WG174892
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/17/2021	03/18/2021	WG174903

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 04/01/2021
 Report Group: CHLS-P_033121

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

Client Sample ID: LEPS210323P	CollectDate: 03/23/2021
SDG/Lab Sample ID: 16081 / L76580-1	LoginDate: 03/24/2021
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	.792		.0503	.0503		03/25/2021	03/25/2021	WG174975
Antimony, Total	10	mg/L	.0235		.00302	.00302		03/25/2021	03/25/2021	WG174975
Arsenic, Total	10	mg/L	.203		.000503	.000503	1	03/25/2021	03/25/2021	WG174975
Barium, Total	10	mg/L	.0815		.00503	.00503		03/25/2021	03/25/2021	WG174975
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		03/25/2021	03/25/2021	WG174975
Cadmium, Total	10	mg/L	<.000503	U	.000503	.000503	0.5	03/25/2021	03/25/2021	WG174975
Calcium, Total	10	mg/L	117		.503	.503		03/25/2021	03/25/2021	WG174975
Chromium, Total	10	mg/L	.0562		.00201	.00201	2.75	03/25/2021	03/25/2021	WG174975
Cobalt, Total	10	mg/L	.0146		.000503	.000503		03/25/2021	03/25/2021	WG174975
Copper, Total	10	mg/L	.00574		.00201	.00201	3	03/25/2021	03/25/2021	WG174975
Iron, Total	10	mg/L	9.57		.101	.101		03/25/2021	03/25/2021	WG174975
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	03/25/2021	03/25/2021	WG174975
Magnesium, Total	10	mg/L	38.4		.503	.503		03/25/2021	03/25/2021	WG174975
Manganese, Total	10	mg/L	.87		.00101	.00101		03/25/2021	03/25/2021	WG174975
Nickel, Total	10	mg/L	.058		.00101	.00101	2.5	03/25/2021	03/25/2021	WG174975
Phosphorus, Total	10	mg/L	3.48		1.01	1.01		03/25/2021	03/25/2021	WG174975
Potassium, Total	10	mg/L	167		1.01	1.01		03/25/2021	03/25/2021	WG174975
Selenium, Total	10	mg/L	<.00503	U	.00503	.00503		03/25/2021	03/25/2021	WG174975
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	03/25/2021	03/25/2021	WG174975
Sodium, Total	10	mg/L	464		1.01	1.01		03/25/2021	03/25/2021	WG174975
Thallium, Total	10	mg/L	<.00101	U	.00101	.00101		03/25/2021	03/25/2021	WG174975
Tin, Total	10	mg/L	.00707		.00503	.00503		03/25/2021	03/25/2021	WG174975
Vanadium, Total	10	mg/L	.0184		.000754	.000754		03/25/2021	03/25/2021	WG174975
Zinc, Total	10	mg/L	.123		.00503	.00503	5	03/25/2021	03/25/2021	WG174975
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/26/2021	03/29/2021	WG175005

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 04/07/2021
 Report Group: CHLS-P_040621

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

Client Sample ID: LEPS210330P	CollectDate: 03/30/2021
SDG/Lab Sample ID: 16117 / L76583-1	LoginDate: 03/30/2021
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
Antimony, Total	10	mg/L	.0218		.003	.003		03/31/2021	04/02/2021	WG175039
Arsenic, Total	10	mg/L	.17		.0005	.0005	1	03/31/2021	04/02/2021	WG175039
Barium, Total	10	mg/L	.0854		.005	.005		03/31/2021	04/02/2021	WG175039
Beryllium, Total	10	mg/L	<.000999	U	.000999	.000999		03/31/2021	04/02/2021	WG175039
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/31/2021	04/02/2021	WG175039
Calcium, Total	10	mg/L	123		.5	.5		03/31/2021	04/02/2021	WG175039
Chromium, Total	10	mg/L	.0601		.002	.002	2.75	03/31/2021	04/02/2021	WG175039
Cobalt, Total	10	mg/L	.0162		.0005	.0005		03/31/2021	04/02/2021	WG175039
Copper, Total	10	mg/L	.00677		.002	.002	3	03/31/2021	04/02/2021	WG175039
Iron, Total	10	mg/L	10.5		.0999	.0999		03/31/2021	04/02/2021	WG175039
Lead, Total	10	mg/L	.00107		.000999	.000999	2	03/31/2021	04/02/2021	WG175039
Magnesium, Total	10	mg/L	40.9		.5	.5		03/31/2021	04/02/2021	WG175039
Manganese, Total	10	mg/L	1.05		.000999	.000999		03/31/2021	04/02/2021	WG175039
Nickel, Total	10	mg/L	.0621	D	.000999	.000999	2.5	03/31/2021	04/02/2021	WG175039
Phosphorus, Total	10	mg/L	3.54		.999	.999		03/31/2021	04/02/2021	WG175039
Potassium, Total	10	mg/L	175		.999	.999		03/31/2021	04/02/2021	WG175039
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/31/2021	04/02/2021	WG175039
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/31/2021	04/02/2021	WG175039
Sodium, Total	10	mg/L	494		.999	.999		03/31/2021	04/02/2021	WG175039
Thallium, Total	10	mg/L	<.000999	U	.000999	.000999		03/31/2021	04/02/2021	WG175039
Tin, Total	10	mg/L	.00712		.005	.005		03/31/2021	04/02/2021	WG175039
Vanadium, Total	10	mg/L	.02		.000749	.000749		03/31/2021	04/02/2021	WG175039
Zinc, Total	10	mg/L	.142		.005	.005	5	03/31/2021	04/02/2021	WG175039
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/01/2021	04/02/2021	WG175060
Aluminum, Total	10	mg/L	.869		.0502	.0502		04/02/2021	04/05/2021	WG175073

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	03/01/21 @ 09:42
Sample Count	Interval Time (sec)	Bump Test Date
23365	30	03/01/21 @ 09:44
H2S Readings		
Date	Daily Max	Daily Average
3/1/2021	0.0	0.0
3/2/2021	0.0	0.0
3/3/2021	0.0	0.0
3/4/2021	0.0	0.0
3/5/2021	0.0	0.0
3/6/2021	0.0	0.0
3/7/2021	0.0	0.0
3/8/2021	0.0	0.0
3/9/2021	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MARCH
YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS	
	BRIGHT		C.H.		SPOK.		C.H.		C.H.		C.H.			
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000		
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
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19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
TOTAL	0	56000	0	14000	0	0	0	14000	0	0	0	0	0	



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

May 13, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

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

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

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of April 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 4/7/21, 4/13/21, 4/20/21, and 4/27/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 4/1/21-4/12/21)
- Leachate Hauling Report (for April)

All results met permit-specified limits. 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)
Laura Belt, Interim Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Isabel McClure, Interim Supervising Engineer, SWD
Dan Swope, Engineer III, SWD
Toraj Ghofrani, Engineer III, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD



King County

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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: APRIL 2021

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)

Table with columns: Sample Date, Sample Type, pH, Arsenic, As (LIMIT, LOAD), Cadmium, Cd (LIMIT, LOAD), Chromium, Cr (LIMIT, LOAD), Copper, Cu (LIMIT, LOAD), Total Soluble Sulfides, Daily Industrial Flow, Notes. Rows 1-31.

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

5/13/2021 Date

Monthly Min pH 7.54

Monthly Max pH 8.28

4/13/21

4/20/21

Total Monthly Flow (gallons) 7,810,900

Maximum Daily Flow 1,035,400

4/5/2021

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

DocuSign Envelope ID: 9C83AE42-04A5-4759-A43F-4667627500E0



King County

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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: APRIL 2021

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)

Table with columns: Sample Date (circle), Sample Type*, Lead, Pb (LIMIT 2.0, LOAD 1.2), Mercury, Hg (LIMIT 0.1, LOAD 0.06), Nickel, Ni (LIMIT 2.5, LOAD 2.49), Silver, Ag (LIMIT 1.0, LOAD 0.44), Zinc, Zn (LIMIT 5.0, LOAD 12.31), Notes (indicate Batch Discharge where applicable). Rows 1-31.

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 Permit Executive or Authorized Agent

5/13/2021

Date

DocuSign Envelope ID: 9C83AE42-04A5-4759-A43F-4667627500E0

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: APRIL 2021

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	0.0	0.0	Y	
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	0.0	0.0	Y	
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	0.0			
Monthly AVG	0.0			
				4/1/21-4/12/21

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.

DocuSigned by:

5/13/2021

Signature of Principal Executive or Authorized Agent

Date

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 04/16/2021
 Report Group: CHLS-P_041421

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

Client Sample ID: LEPS210407P	CollectDate: 04/07/2021
SDG/Lab Sample ID: 16157 / L76651-1	LoginDate: 04/07/2021
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	.562			.05	.05		04/08/2021	04/08/2021	WG175135
Antimony, Total	10	mg/L	.0171			.003	.003		04/08/2021	04/08/2021	WG175135
Arsenic, Total	10	mg/L	.137			.0005	.0005	1	04/08/2021	04/08/2021	WG175135
Barium, Total	10	mg/L	.0907			.005	.005		04/08/2021	04/08/2021	WG175135
Beryllium, Total	10	mg/L	<.000999	U		.000999	.000999		04/08/2021	04/08/2021	WG175135
Cadmium, Total	10	mg/L	<.0005	U		.0005	.0005	0.5	04/08/2021	04/08/2021	WG175135
Calcium, Total	10	mg/L	116			.5	.5		04/08/2021	04/08/2021	WG175135
Chromium, Total	10	mg/L	.0643			.002	.002	2.75	04/08/2021	04/08/2021	WG175135
Cobalt, Total	10	mg/L	.0165			.0005	.0005		04/08/2021	04/08/2021	WG175135
Copper, Total	10	mg/L	.00611			.002	.002	3	04/08/2021	04/08/2021	WG175135
Iron, Total	10	mg/L	9.2			.0999	.0999		04/08/2021	04/08/2021	WG175135
Lead, Total	10	mg/L	.00116			.000999	.000999	2	04/08/2021	04/08/2021	WG175135
Magnesium, Total	10	mg/L	39.4			.5	.5		04/08/2021	04/08/2021	WG175135
Manganese, Total	10	mg/L	1.06			.000999	.000999		04/08/2021	04/08/2021	WG175135
Nickel, Total	10	mg/L	.0665			.000999	.000999	2.5	04/08/2021	04/08/2021	WG175135
Phosphorus, Total	10	mg/L	3.29			.999	.999		04/08/2021	04/08/2021	WG175135
Potassium, Total	10	mg/L	178			.999	.999		04/08/2021	04/08/2021	WG175135
Selenium, Total	10	mg/L	<.005	U		.005	.005		04/08/2021	04/08/2021	WG175135
Silver, Total	10	mg/L	<.0004	U		.0004	.0004	1	04/08/2021	04/08/2021	WG175135
Sodium, Total	10	mg/L	500			.999	.999		04/08/2021	04/08/2021	WG175135
Thallium, Total	10	mg/L	<.000999	U		.000999	.000999		04/08/2021	04/08/2021	WG175135
Tin, Total	10	mg/L	.0083			.005	.005		04/08/2021	04/08/2021	WG175135
Vanadium, Total	10	mg/L	.0196			.000749	.000749		04/08/2021	04/08/2021	WG175135
Zinc, Total	10	mg/L	.12			.005	.005	5	04/08/2021	04/08/2021	WG175135
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		04/08/2021	04/09/2021	WG175162

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 04/22/2021
 Report Group: CHLS-P_042021

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

Client Sample ID: LEPS210413P	CollectDate: 04/13/2021
SDG/Lab Sample ID: 16160 / L76726-1	LoginDate: 04/13/2021
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	.321			.0508	.0508		04/14/2021	04/15/2021	WG175217
Antimony, Total	10	mg/L	.015			.00305	.00305		04/14/2021	04/15/2021	WG175217
Arsenic, Total	10	mg/L	.119			.000508	.000508	1	04/14/2021	04/15/2021	WG175217
Barium, Total	10	mg/L	.0867			.00508	.00508		04/14/2021	04/15/2021	WG175217
Beryllium, Total	10	mg/L	<.00102	U		.00102	.00102		04/14/2021	04/15/2021	WG175217
Cadmium, Total	10	mg/L	<.000508	U		.000508	.000508	0.5	04/14/2021	04/15/2021	WG175217
Calcium, Total	10	mg/L	115			.508	.508		04/14/2021	04/15/2021	WG175217
Chromium, Total	10	mg/L	.0614			.00203	.00203	2.75	04/14/2021	04/15/2021	WG175217
Cobalt, Total	10	mg/L	.0158			.000508	.000508		04/14/2021	04/15/2021	WG175217
Copper, Total	10	mg/L	.00555			.00203	.00203	3	04/14/2021	04/15/2021	WG175217
Iron, Total	10	mg/L	8.15			.102	.102		04/14/2021	04/15/2021	WG175217
Lead, Total	10	mg/L	.00105			.00102	.00102	2	04/14/2021	04/15/2021	WG175217
Magnesium, Total	10	mg/L	40.8			.508	.508		04/14/2021	04/15/2021	WG175217
Manganese, Total	10	mg/L	1.03			.00102	.00102		04/14/2021	04/15/2021	WG175217
Nickel, Total	10	mg/L	.0659			.00102	.00102	2.5	04/14/2021	04/15/2021	WG175217
Phosphorus, Total	10	mg/L	3.01			1.02	1.02		04/14/2021	04/15/2021	WG175217
Potassium, Total	10	mg/L	179			1.02	1.02		04/14/2021	04/15/2021	WG175217
Selenium, Total	10	mg/L	<.00508	U		.00508	.00508		04/14/2021	04/15/2021	WG175217
Silver, Total	10	mg/L	<.000406	U		.000406	.000406	1	04/14/2021	04/15/2021	WG175217
Sodium, Total	10	mg/L	504			1.02	1.02		04/14/2021	04/15/2021	WG175217
Thallium, Total	10	mg/L	<.00102	U		.00102	.00102		04/14/2021	04/15/2021	WG175217
Tin, Total	10	mg/L	.00812			.00508	.00508		04/14/2021	04/15/2021	WG175217
Vanadium, Total	10	mg/L	.0191	D		.000762	.000762		04/14/2021	04/15/2021	WG175217
Zinc, Total	10	mg/L	.103			.00508	.00508	5	04/14/2021	04/15/2021	WG175217
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		04/15/2021	04/16/2021	WG175251

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 04/27/2021
 Report Group: CHLS-P_042721

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

Client Sample ID: LEPS-210420P	CollectDate: 04/20/2021
SDG/Lab Sample ID: 16094 / L76733-1	LoginDate: 04/20/2021
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	.435			.0501	.0501		04/21/2021	04/26/2021	WG175352
Antimony, Total	10	mg/L	.013			.00301	.00301		04/21/2021	04/26/2021	WG175352
Arsenic, Total	10	mg/L	.112			.000501	.000501	1	04/21/2021	04/26/2021	WG175352
Barium, Total	10	mg/L	.0827			.00501	.00501		04/21/2021	04/26/2021	WG175352
Beryllium, Total	10	mg/L	<.001		U	.001	.001		04/21/2021	04/26/2021	WG175352
Cadmium, Total	10	mg/L	<.000501		U	.000501	.000501	0.5	04/21/2021	04/26/2021	WG175352
Calcium, Total	10	mg/L	111			.501	.501		04/21/2021	04/26/2021	WG175352
Chromium, Total	10	mg/L	.0611			.00201	.00201	2.75	04/21/2021	04/26/2021	WG175352
Cobalt, Total	10	mg/L	.0154			.000501	.000501		04/21/2021	04/26/2021	WG175352
Copper, Total	10	mg/L	.00581			.00201	.00201	3	04/21/2021	04/26/2021	WG175352
Iron, Total	10	mg/L	7.78			.1	.1		04/21/2021	04/26/2021	WG175352
Lead, Total	10	mg/L	.00105			.001	.001	2	04/21/2021	04/26/2021	WG175352
Magnesium, Total	10	mg/L	39.8			.501	.501		04/21/2021	04/26/2021	WG175352
Manganese, Total	10	mg/L	.958			.001	.001		04/21/2021	04/26/2021	WG175352
Nickel, Total	10	mg/L	.0608			.001	.001	2.5	04/21/2021	04/26/2021	WG175352
Phosphorus, Total	10	mg/L	2.77			1	1		04/21/2021	04/26/2021	WG175352
Potassium, Total	10	mg/L	182			1	1		04/21/2021	04/26/2021	WG175352
Selenium, Total	10	mg/L	<.00501		U	.00501	.00501		04/21/2021	04/26/2021	WG175352
Silver, Total	10	mg/L	<.000401		U	.000401	.000401	1	04/21/2021	04/26/2021	WG175352
Sodium, Total	10	mg/L	530			1	1		04/21/2021	04/26/2021	WG175352
Thallium, Total	10	mg/L	<.001		U	.001	.001		04/21/2021	04/26/2021	WG175352
Tin, Total	10	mg/L	.0073			.00501	.00501		04/21/2021	04/26/2021	WG175352
Vanadium, Total	10	mg/L	.02			.000752	.000752		04/21/2021	04/26/2021	WG175352
Zinc, Total	10	mg/L	.0999			.00501	.00501	5	04/21/2021	04/26/2021	WG175352
Mercury, Total	2	mg/L	<.0001		U	.0001	.0001		04/22/2021	04/23/2021	WG175380

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 05/07/2021
 Report Group: CHLS-P_050421

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

Client Sample ID: LEPS210427P	CollectDate: 04/27/2021
SDG/Lab Sample ID: 16134 / L76739-1	LoginDate: 04/27/2021
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	.658			.0499	.0499		04/28/2021	04/30/2021	WG175443
Antimony, Total	10	mg/L	.0146			.00299	.00299		04/28/2021	04/30/2021	WG175443
Arsenic, Total	10	mg/L	.118			.000499	.000499	1	04/28/2021	04/30/2021	WG175443
Barium, Total	10	mg/L	.0845			.00499	.00499		04/28/2021	04/30/2021	WG175443
Beryllium, Total	10	mg/L	<.000997	U		.000997	.000997		04/28/2021	04/30/2021	WG175443
Cadmium, Total	10	mg/L	<.000499	U		.000499	.000499	0.5	04/28/2021	04/30/2021	WG175443
Calcium, Total	10	mg/L	106			.499	.499		04/28/2021	04/30/2021	WG175443
Chromium, Total	10	mg/L	.076			.00199	.00199	2.75	04/28/2021	04/30/2021	WG175443
Cobalt, Total	10	mg/L	.0182			.000499	.000499		04/28/2021	04/30/2021	WG175443
Copper, Total	10	mg/L	.00656			.00199	.00199	3	04/28/2021	04/30/2021	WG175443
Iron, Total	10	mg/L	8.3			.0997	.0997		04/28/2021	04/30/2021	WG175443
Lead, Total	10	mg/L	.00125			.000997	.000997	2	04/28/2021	04/30/2021	WG175443
Magnesium, Total	10	mg/L	44.5			.499	.499		04/28/2021	04/30/2021	WG175443
Manganese, Total	10	mg/L	.904			.000997	.000997		04/28/2021	04/30/2021	WG175443
Nickel, Total	10	mg/L	.0756			.000997	.000997	2.5	04/28/2021	04/30/2021	WG175443
Phosphorus, Total	10	mg/L	3.47			.997	.997		04/28/2021	04/30/2021	WG175443
Potassium, Total	10	mg/L	203			.997	.997		04/28/2021	04/30/2021	WG175443
Selenium, Total	10	mg/L	<.00499	U		.00499	.00499		04/28/2021	04/30/2021	WG175443
Silver, Total	10	mg/L	<.000399	U		.000399	.000399	1	04/28/2021	04/30/2021	WG175443
Sodium, Total	10	mg/L	576			.997	.997		04/28/2021	04/30/2021	WG175443
Thallium, Total	10	mg/L	<.000997	U		.000997	.000997		04/28/2021	04/30/2021	WG175443
Tin, Total	10	mg/L	.0078			.00499	.00499		04/28/2021	04/30/2021	WG175443
Vanadium, Total	10	mg/L	.0226			.000748	.000748		04/28/2021	04/30/2021	WG175443
Zinc, Total	10	mg/L	.122			.00499	.00499	5	04/28/2021	04/30/2021	WG175443
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		04/28/2021	04/29/2021	WG175457

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	03/26/21 @ 14:56
Sample Count	Interval Time (sec)	Bump Test Date
31452	30	03/30/21 @ 14:01

H2S Readings

Date	Daily Max	Daily Average
4/1/2021	0.0	0.0
4/2/2021	0.0	0.0
4/3/2021	0.0	0.0
4/4/2021	0.0	0.0
4/5/2021	0.0	0.0
4/6/2021	0.0	0.0
4/7/2021	0.0	0.0
4/8/2021	0.0	0.0
4/9/2021	0.0	0.0
4/10/2021	0.0	0.0
4/11/2021	0.0	0.0
4/12/2021	0.0	0.0



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

June 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division

DS
MC 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of May 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 5/4/21, 5/12/21, 5/18/21, and 5/25/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 5/4/21-5/13/21)
- Leachate Hauling Report (for May)

At monitoring location A90021, there was one arsenic loading exceedance measured during the month of May. All other results met permit-specified limits. KCIW was notified of the exceedance as follows:

Date of Exceedance	Date Reported to KCIW
5/12/21	5/24/21

Details of this exceedance will be provided in one 14-day report appended to this SMR, per KCIW guidance.

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)
 Laura Belt, Interim Section Manager, SWD
 Jennifer Keune, Environmental Compliance Coordinator, SWD
 Jamey Barker, Supervising Engineer, SWD
 Dan Swope, Engineer III, SWD
 Toraj Ghofrani, Engineer III, SWD

Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist II, SWD

Certificate Of Completion

Envelope Id: 2618DE42D729413CA668066BB4B0B913	Status: Completed
Subject: Please DocuSign: MAY_CoverLetter_SMR.docx	
Source Envelope:	
Document Pages: 2	Signatures: 0
Certificate Pages: 1	Initials: 1
AutoNav: Disabled	Envelope Originator:
Envelope Stamping: Disabled	Nina Wester
Time Zone: (UTC-08:00) Pacific Time (US & Canada)	401 5th Ave
	Suite 100
	Seattle, WA 98104
	Nina.Wester@kingcounty.gov
	IP Address: 198.49.222.20


Record Tracking

Status: Original	Holder: Nina Wester	Location: DocuSign
6/15/2021 10:48:43 AM	Nina.Wester@kingcounty.gov	
Security Appliance Status: Connected	Pool: FedRamp	
Storage Appliance Status: Connected	Pool: King County General (ITD)	Location: DocuSign

Signer Events

Nina Wester
 Nina.Wester@kingcounty.gov
 King County
 Security Level: Email, Account Authentication (None)

Signature



Signature Adoption: Pre-selected Style
 Using IP Address: 198.49.222.20

Timestamp

Sent: 6/15/2021 10:49:06 AM
 Viewed: 6/15/2021 10:49:16 AM
 Signed: 6/15/2021 10:56:38 AM
 Freeform Signing

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	6/15/2021 10:49:06 AM
Certified Delivered	Security Checked	6/15/2021 10:49:16 AM
Signing Complete	Security Checked	6/15/2021 10:56:38 AM
Completed	Security Checked	6/15/2021 10:56:38 AM
Payment Events	Status	Timestamps



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 Sample Site No. A90021 Permit No.: 7842-03

Please Specify Month & Year: Month: MAY 2021 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												203,600	
4	C	8.34	0.126	0.2221	<0.0005	0.0004	0.0835	0.1472	0.007	0.0123	< 0.1 ppm	211,400	
5												262,800	
6												211,200	
7												212,200	
8												212,400	
9												216,100	
10												62,100	
11												207,200	
12	C	8.38	0.139	0.3377	<0.0005	0.0006	0.0881	0.2140	0.00702	0.0171	< 0.1 ppm	291,300	
13												213,400	
14												202,400	
15												112,900	
16												0	
17												173,400	
18	C	8.25	0.144	0.1795	<0.0005	0.0003	0.0926	0.1155	0.00645	0.0080	< 0.1 ppm	149,500	
19												156,000	
20												163,300	
21												164,600	
22												164,400	
23												162,000	
24												163,000	
25	C	8.47	0.155	0.2125	<0.0005	0.0003	0.103	0.1412	0.00487	0.0067	< 0.1 ppm	164,400	
26												139,700	
27												163,200	
28												164,700	
29												191,800	
30												164,300	
31												157,100	

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.

DocuSigned by:

 Orange Du Kuan
 Executive or Authorized Agent
 Date: Jun 15, 2021

Monthly Min pH: 8.25 5/18/21 Total Monthly Flow (gallons): 5,060,400
 Monthly Max pH: 8.47 5/25/21 Maximum Daily Flow: 291,300

5/12/2021

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

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: MAY 2021

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	C	0.0011	0.00194	<0.0001	0.00009	0.0837	0.148	<0.0004	0.0004	0.129	0.227	
5												
6												
7												
8												
9												
10												
11												
12	C	0.00118	0.00287	<0.0001	0.00012	0.0916	0.223	<0.0004	0.0005	0.156	0.379	
13												
14												
15												
16												
17												
18	C	0.0012	0.00150	<0.0001	0.00006	0.0914	0.114	<0.0004	0.0002	0.162	0.202	
19												
20												
21												
22												
23												
24												
25	C	<0.000996	0.00069	<0.0001	0.00007	0.106	0.145	<0.0004	0.0003	0.112	0.154	
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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent
 Date: Jun 15, 2021

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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



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 2021

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>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.</p> <p style="text-align: right;">DocuSigned by: <i>Orange Kunn</i> Signature of Project Engineer or Authorized Agent</p> <p style="text-align: right;">Jun 15, 2021 Date</p>
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				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	0.0		5/4/21-5/13/21	
Monthly AVG	0.0			

DocuSign Envelope ID: 1CAF5101-ECD3-4868-BE6C-DD589DB46D07

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: 05/12/2021
 Report Group: CHLS-P_051121

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

Client Sample ID: LEPS210504P	CollectDate: 05/04/2021
SDG/Lab Sample ID: 16135 / L76813-1	LoginDate: 05/04/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.593		.0505	.0505		05/06/2021	05/10/2021	WG175584
Antimony, Total	10	mg/L	.0169		.00303	.00303		05/06/2021	05/10/2021	WG175584
Arsenic, Total	10	mg/L	.126		.000505	.000505	1	05/06/2021	05/10/2021	WG175584
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		05/06/2021	05/10/2021	WG175584
Cadmium, Total	10	mg/L	<.000505	U	.000505	.000505	0.5	05/06/2021	05/10/2021	WG175584
Calcium, Total	10	mg/L	80.2		.505	.505		05/06/2021	05/10/2021	WG175584
Chromium, Total	10	mg/L	.0835		.00202	.00202	2.75	05/06/2021	05/10/2021	WG175584
Cobalt, Total	10	mg/L	.0202		.000505	.000505		05/06/2021	05/10/2021	WG175584
Copper, Total	10	mg/L	.007		.00202	.00202	3	05/06/2021	05/10/2021	WG175584
Iron, Total	10	mg/L	8.01		.101	.101		05/06/2021	05/10/2021	WG175584
Lead, Total	10	mg/L	.0011		.00101	.00101	2	05/06/2021	05/10/2021	WG175584
Magnesium, Total	10	mg/L	49.7		.505	.505		05/06/2021	05/10/2021	WG175584
Manganese, Total	10	mg/L	.443		.00101	.00101		05/06/2021	05/10/2021	WG175584
Nickel, Total	10	mg/L	.0837		.00101	.00101	2.5	05/06/2021	05/10/2021	WG175584
Phosphorus, Total	10	mg/L	3.93		1.01	1.01		05/06/2021	05/10/2021	WG175584
Potassium, Total	10	mg/L	242		1.01	1.01		05/06/2021	05/10/2021	WG175584
Selenium, Total	10	mg/L	<.00505	U	.00505	.00505		05/06/2021	05/10/2021	WG175584
Silver, Total	10	mg/L	<.000404	U	.000404	.000404	1	05/06/2021	05/10/2021	WG175584
Sodium, Total	10	mg/L	667		1.01	1.01		05/06/2021	05/10/2021	WG175584
Thallium, Total	10	mg/L	<.00101	U	.00101	.00101		05/06/2021	05/10/2021	WG175584
Tin, Total	10	mg/L	.00798		.00505	.00505		05/06/2021	05/10/2021	WG175584
Vanadium, Total	10	mg/L	.0263		.000757	.000757		05/06/2021	05/10/2021	WG175584
Zinc, Total	10	mg/L	.129		.00505	.00505	5	05/06/2021	05/10/2021	WG175584
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/06/2021	05/06/2021	WG175591
Barium, Total	10	mg/L	.0551		.00512	.00512		05/10/2021	05/11/2021	WG175666

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 05/19/2021
 Report Group: CHLS-P_051921

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

Client Sample ID: LEPS210512P	CollectDate: 05/12/2021
SDG/Lab Sample ID: 16258 / L76882-1	LoginDate: 05/12/2021
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	.597			.0504	.0504		05/13/2021	05/17/2021	WG175732
Antimony, Total	10	mg/L	.015			.00303	.00303		05/13/2021	05/17/2021	WG175732
Arsenic, Total	10	mg/L	.139			.000504	.000504	1	05/13/2021	05/17/2021	WG175732
Barium, Total	10	mg/L	.0581			.00504	.00504		05/13/2021	05/17/2021	WG175732
Beryllium, Total	10	mg/L	<.00101	U		.00101	.00101		05/13/2021	05/17/2021	WG175732
Cadmium, Total	10	mg/L	<.000504	U		.000504	.000504	0.5	05/13/2021	05/17/2021	WG175732
Calcium, Total	10	mg/L	84.3			.504	.504		05/13/2021	05/17/2021	WG175732
Chromium, Total	10	mg/L	.0881			.00202	.00202	2.75	05/13/2021	05/17/2021	WG175732
Cobalt, Total	10	mg/L	.0223			.000504	.000504		05/13/2021	05/17/2021	WG175732
Copper, Total	10	mg/L	.00702			.00202	.00202	3	05/13/2021	05/17/2021	WG175732
Iron, Total	10	mg/L	7.92			.101	.101		05/13/2021	05/17/2021	WG175732
Lead, Total	10	mg/L	.00118			.00101	.00101	2	05/13/2021	05/17/2021	WG175732
Magnesium, Total	10	mg/L	51.4			.504	.504		05/13/2021	05/17/2021	WG175732
Manganese, Total	10	mg/L	.549			.00101	.00101		05/13/2021	05/17/2021	WG175732
Nickel, Total	10	mg/L	.0916			.00101	.00101	2.5	05/13/2021	05/17/2021	WG175732
Phosphorus, Total	10	mg/L	4.62			1.01	1.01		05/13/2021	05/17/2021	WG175732
Potassium, Total	10	mg/L	258			1.01	1.01		05/13/2021	05/17/2021	WG175732
Selenium, Total	10	mg/L	<.00504	U		.00504	.00504		05/13/2021	05/17/2021	WG175732
Silver, Total	10	mg/L	<.000403	U		.000403	.000403	1	05/13/2021	05/17/2021	WG175732
Sodium, Total	10	mg/L	721			1.01	1.01		05/13/2021	05/17/2021	WG175732
Thallium, Total	10	mg/L	<.00101	U		.00101	.00101		05/13/2021	05/17/2021	WG175732
Tin, Total	10	mg/L	.0079			.00504	.00504		05/13/2021	05/17/2021	WG175732
Vanadium, Total	10	mg/L	.0292			.000757	.000757		05/13/2021	05/17/2021	WG175732
Zinc, Total	10	mg/L	.156			.00504	.00504	5	05/13/2021	05/17/2021	WG175732
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		05/17/2021	05/18/2021	WG175780

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 05/26/2021
 Report Group: CHLS-P_052521

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

Client Sample ID: LEPS210518P	CollectDate: 05/18/2021
SDG/Lab Sample ID: 16194 / L76907-1	LoginDate: 05/18/2021
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	.684			.0515	.0515		05/19/2021	05/20/2021	WG175819
Antimony, Total	10	mg/L	.0157			.00309	.00309		05/19/2021	05/20/2021	WG175819
Arsenic, Total	10	mg/L	.144			.000515	.000515	1	05/19/2021	05/20/2021	WG175819
Barium, Total	10	mg/L	.0597			.00515	.00515		05/19/2021	05/20/2021	WG175819
Beryllium, Total	10	mg/L	<.00103	U		.00103	.00103		05/19/2021	05/20/2021	WG175819
Cadmium, Total	10	mg/L	<.000515	U		.000515	.000515	0.5	05/19/2021	05/20/2021	WG175819
Calcium, Total	10	mg/L	83.5			.515	.515		05/19/2021	05/20/2021	WG175819
Chromium, Total	10	mg/L	.0926			.00206	.00206	2.75	05/19/2021	05/20/2021	WG175819
Cobalt, Total	10	mg/L	.0231			.000515	.000515		05/19/2021	05/20/2021	WG175819
Copper, Total	10	mg/L	.00645			.00206	.00206	3	05/19/2021	05/20/2021	WG175819
Iron, Total	10	mg/L	7.79			.103	.103		05/19/2021	05/20/2021	WG175819
Lead, Total	10	mg/L	.0012			.00103	.00103	2	05/19/2021	05/20/2021	WG175819
Magnesium, Total	10	mg/L	52.1			.515	.515		05/19/2021	05/20/2021	WG175819
Manganese, Total	10	mg/L	.575			.00103	.00103		05/19/2021	05/20/2021	WG175819
Nickel, Total	10	mg/L	.0914			.00103	.00103	2.5	05/19/2021	05/20/2021	WG175819
Phosphorus, Total	10	mg/L	4.59			1.03	1.03		05/19/2021	05/20/2021	WG175819
Potassium, Total	10	mg/L	272			1.03	1.03		05/19/2021	05/20/2021	WG175819
Selenium, Total	10	mg/L	<.00515	U		.00515	.00515		05/19/2021	05/20/2021	WG175819
Silver, Total	10	mg/L	<.000412	U		.000412	.000412	1	05/19/2021	05/20/2021	WG175819
Sodium, Total	10	mg/L	751			1.03	1.03		05/19/2021	05/20/2021	WG175819
Thallium, Total	10	mg/L	<.00103	U		.00103	.00103		05/19/2021	05/20/2021	WG175819
Tin, Total	10	mg/L	.009			.00515	.00515		05/19/2021	05/20/2021	WG175819
Vanadium, Total	10	mg/L	.0306			.000772	.000772		05/19/2021	05/20/2021	WG175819
Zinc, Total	10	mg/L	.162			.00515	.00515	5	05/19/2021	05/20/2021	WG175819
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		05/19/2021	05/20/2021	WG175845

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 06/04/2021
 Report Group: CHLS-P_060121

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210525P	CollectDate: 05/25/2021
SDG/Lab Sample ID: 16201 / L76952-1	LoginDate: 05/25/2021
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	.291			.0498	.0498		05/26/2021	05/27/2021	WG175971
Antimony, Total	10	mg/L	.0172			.00299	.00299		05/26/2021	05/27/2021	WG175971
Arsenic, Total	10	mg/L	.155			.000498	.000498	1	05/26/2021	05/27/2021	WG175971
Barium, Total	10	mg/L	.0295			.00498	.00498		05/26/2021	05/27/2021	WG175971
Beryllium, Total	10	mg/L	<.000996	U		.000996	.000996		05/26/2021	05/27/2021	WG175971
Cadmium, Total	10	mg/L	<.000498	U		.000498	.000498	0.5	05/26/2021	05/27/2021	WG175971
Calcium, Total	10	mg/L	58			.498	.498		05/26/2021	05/27/2021	WG175971
Chromium, Total	10	mg/L	.103			.00199	.00199	2.75	05/26/2021	05/27/2021	WG175971
Cobalt, Total	10	mg/L	.024			.000498	.000498		05/26/2021	05/27/2021	WG175971
Copper, Total	10	mg/L	.00487			.00199	.00199	3	05/26/2021	05/27/2021	WG175971
Iron, Total	10	mg/L	6.42			.0996	.0996		05/26/2021	05/27/2021	WG175971
Lead, Total	10	mg/L	<.000996	U		.000996	.000996	2	05/26/2021	05/27/2021	WG175971
Magnesium, Total	10	mg/L	55.2			.498	.498		05/26/2021	05/27/2021	WG175971
Manganese, Total	10	mg/L	.21			.000996	.000996		05/26/2021	05/27/2021	WG175971
Nickel, Total	10	mg/L	.106			.000996	.000996	2.5	05/26/2021	05/27/2021	WG175971
Phosphorus, Total	10	mg/L	3.25			.996	.996		05/26/2021	05/27/2021	WG175971
Potassium, Total	10	mg/L	311			.996	.996		05/26/2021	05/27/2021	WG175971
Selenium, Total	10	mg/L	<.00498	U		.00498	.00498		05/26/2021	05/27/2021	WG175971
Silver, Total	10	mg/L	<.000398	U		.000398	.000398	1	05/26/2021	05/27/2021	WG175971
Sodium, Total	10	mg/L	830			.996	.996		05/26/2021	05/27/2021	WG175971
Thallium, Total	10	mg/L	<.000996	U		.000996	.000996		05/26/2021	05/27/2021	WG175971
Tin, Total	10	mg/L	.0104			.00498	.00498		05/26/2021	05/27/2021	WG175971
Vanadium, Total	10	mg/L	.032	D		.000747	.000747		05/26/2021	05/27/2021	WG175971
Zinc, Total	10	mg/L	.112			.00498	.00498	5	05/26/2021	05/27/2021	WG175971
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		05/26/2021	05/27/2021	WG175980

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	03/26/21 @ 14:56
Sample Count	Interval Time (sec)	Bump Test Date
25340	30	05/04/21 @ 10:17
H2S Readings		
Date	Daily Max	Daily Average
5/4/2021	0.0	0.0
5/5/2021	0.0	0.0
5/6/2021	0.0	0.0
5/7/2021	0.0	0.0
5/8/2021	0.0	0.0
5/9/2021	0.0	0.0
5/10/2021	0.0	0.0
5/11/2021	0.0	0.0
5/12/2021	0.0	0.0
5/13/2021	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: MAY
YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS
	BRIGHT		C.H.		SPOK.		C.H.		C.H.		C.H.		
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
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18													
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20													
21													
22													
23													
24													
25													
26													
27													
28													
29				2.00									
30													
31													
TOTAL	0	0.00	0	14000.00	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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

July 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division

DS
CC

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

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of June 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 6/2/21, 6/8/21, 6/15/21, 6/22/21 and 6/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 6//21-6//21)
- Leachate Hauling Report (for June)

At monitoring location A90021, there were two dissolved sulfide exceedances measured during the month of June. All other results met permit-specified limits. KCIW was notified of the exceedance as follows:

Date of Exceedance	Dissolved Sulfide
6/22/21	0.8
6/30/21	0.6

Details of these exceedances were provided in a 14-day report submitted to KCIW on July 9, 2021.

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)
 Theresa Thurlow, Section Manager, SWD
 Jennifer Keune, Environmental Compliance Coordinator, SWD
 Jamey Barker, Supervising Engineer, SWD



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: JUNE 2021

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 <small>(circle)</small>	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												166,700	
2	C	8.21	0.166	0.2246	<0.0005	0.0003	0.109	0.1474	0.00669	0.0090	< 0.1	162,200	
3												0	
4												0	
5												137,300	
6												165,200	
7												0	
8	C	8.47	0.158	0.2177	<0.0005	0.0003	0.104	0.1433	0.00514	0.0071	< 0.1	0	
9												0	
10												0	
11												163,100	
12												0	
13												163,100	
14												414,000	
15	C	9.71	0.174	0.1663	<0.0005	0.0002	0.109	0.1042	0.00519	0.0050	< 0.1	114,600	
16												919,400	
17												1,036,400	
18												165,600	
19												163,200	
20												165,100	
21												398,200	
22	C	8.52	.157	.2167	<0.0005	.0003	.107	.1477	.00349	.00482	0.8	165,500	
23												155,300	
24												700	
25												163,400	
26												165,000	
27												164,400	
28												161,900	
29												996,00	
30	C	8.48	.163	.1903	<0.0005	.0003	.0969	.1131	.00498	.0058	0.6	140,000	
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.

Date: 7/15/2021

Signature: Date: 7/15/2021

Monthly Min pH: 8.47
 Monthly Max pH: 9.71

6/8/21
6/15/21

Total Monthly Flow (gallons): 5,715,000
 Maximum Daily Flow: 1,1036,000

6/17/2021

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

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 2021

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	0.00124	0.00168	<0.0001	0.00007	0.116	0.157	<0.0004	0.0003	0.129	0.175	
3												
4												
5												
6												
7												
8	C	0.0005	0.00069	<0.0001	0.00007	0.104	0.143	<0.0004	0.0003	0.133	0.183	
9												
10												
11												
12												
13												
14												
15	C	0.0005	0.00048	<0.0001	0.00005	0.114	0.109	<0.0004	0.0002	0.167	0.160	
16												
17												
18												
19												
20												
21												
22	C	.00138	.0019	<0.0001	.00006	.118	.1629	<0.0004	.0002	.199	.2747	
23												
24												
25												
26												
27												
28												
29												
30	C	.0058	.0068	<0.0001	.00006	.11	.1284	<0.0004	.0002	.24	.2802	
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.

7/15/2021
Date

DocuSigned by:

 Principal Executive or Authorized Agent
 WA A70EECD0E02F44A...

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: JUNE 2021

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	0.0	0.0	N	<p>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.</p> <p style="text-align: right;">7/15/2021 Date</p> <p style="text-align: right;">DocuSign Envelope ID: A70EEC0A-2F44A... Signature of Principal Executive or Authorized Agent</p>
2	2.5	0.007	Y	
3	0.0	0.0	N	
4	0.0	0.0	N	
5	0.0	0.0	N	
6	4.0	0.04	Y	
7	3.5	0.01	Y	
8	2.5	0.03	Y	
9	0.0	0.0	N	
10	0.0	0.0	N	
11	0.0	0.0	N	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	4.0	6//21-6//21		
Monthly AVG	.007			

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: 06/10/2021
 Report Group: CHLS-P_060921

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210602P	CollectDate: 06/02/2021
SDG/Lab Sample ID: 16203 / L77042-1	LoginDate: 06/02/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.504		.0501	.0501		06/03/2021	06/08/2021	WG176092
Antimony, Total	10	mg/L	.0185		.00301	.00301		06/03/2021	06/08/2021	WG176092
Arsenic, Total	10	mg/L	.166		.000501	.000501	1	06/03/2021	06/08/2021	WG176092
Barium, Total	10	mg/L	.0596		.00501	.00501		06/03/2021	06/08/2021	WG176092
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/03/2021	06/08/2021	WG176092
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	06/03/2021	06/08/2021	WG176092
Calcium, Total	10	mg/L	80.1		.501	.501		06/03/2021	06/08/2021	WG176092
Chromium, Total	10	mg/L	.109		.002	.002	2.75	06/03/2021	06/08/2021	WG176092
Cobalt, Total	10	mg/L	.0268		.000501	.000501		06/03/2021	06/08/2021	WG176092
Copper, Total	10	mg/L	.00669		.002	.002	3	06/03/2021	06/08/2021	WG176092
Iron, Total	10	mg/L	6.73		.1	.1		06/03/2021	06/08/2021	WG176092
Lead, Total	10	mg/L	.00124		.001	.001	2	06/03/2021	06/08/2021	WG176092
Magnesium, Total	10	mg/L	58.7		.501	.501		06/03/2021	06/08/2021	WG176092
Manganese, Total	10	mg/L	.555		.001	.001		06/03/2021	06/08/2021	WG176092
Nickel, Total	10	mg/L	.116		.001	.001	2.5	06/03/2021	06/08/2021	WG176092
Phosphorus, Total	10	mg/L	3.66		1	1		06/03/2021	06/08/2021	WG176092
Potassium, Total	10	mg/L	328		1	1		06/03/2021	06/08/2021	WG176092
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		06/03/2021	06/08/2021	WG176092
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	06/03/2021	06/08/2021	WG176092
Sodium, Total	10	mg/L	936		1	1		06/03/2021	06/08/2021	WG176092
Thallium, Total	10	mg/L	<.001	U	.001	.001		06/03/2021	06/08/2021	WG176092
Tin, Total	10	mg/L	.0077		.00501	.00501		06/03/2021	06/08/2021	WG176092
Vanadium, Total	10	mg/L	.035		.000752	.000752		06/03/2021	06/08/2021	WG176092
Zinc, Total	10	mg/L	.184		.00501	.00501	5	06/03/2021	06/08/2021	WG176092
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/07/2021	06/08/2021	WG176152

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 06/17/2021
 Report Group: CHLS-P_061521

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210608P	CollectDate: 06/08/2021
SDG/Lab Sample ID: 16210 / L77089-1	LoginDate: 06/08/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.468		.0492	.0492		06/09/2021	06/10/2021	WG176179
Antimony, Total	10	mg/L	.017		.00295	.00295		06/09/2021	06/10/2021	WG176179
Arsenic, Total	10	mg/L	.158		.000492	.000492	1	06/09/2021	06/10/2021	WG176179
Barium, Total	10	mg/L	.0353		.00492	.00492		06/09/2021	06/10/2021	WG176179
Beryllium, Total	10	mg/L	<.000985	U	.000985	.000985		06/09/2021	06/10/2021	WG176179
Cadmium, Total	10	mg/L	<.000492	U	.000492	.000492	0.5	06/09/2021	06/10/2021	WG176179
Calcium, Total	10	mg/L	59		.492	.492		06/09/2021	06/10/2021	WG176179
Chromium, Total	10	mg/L	.104		.00197	.00197	2.75	06/09/2021	06/10/2021	WG176179
Cobalt, Total	10	mg/L	.0254		.000492	.000492		06/09/2021	06/10/2021	WG176179
Copper, Total	10	mg/L	.00514		.00197	.00197	3	06/09/2021	06/10/2021	WG176179
Iron, Total	10	mg/L	5.82		.0985	.0985		06/09/2021	06/10/2021	WG176179
Lead, Total	10	mg/L	<.000985	U	.000985	.000985	2	06/09/2021	06/10/2021	WG176179
Magnesium, Total	10	mg/L	59.1		.492	.492		06/09/2021	06/10/2021	WG176179
Manganese, Total	10	mg/L	.3		.000985	.000985		06/09/2021	06/10/2021	WG176179
Nickel, Total	10	mg/L	.104		.000985	.000985	2.5	06/09/2021	06/10/2021	WG176179
Phosphorus, Total	10	mg/L	3.83		.985	.985		06/09/2021	06/10/2021	WG176179
Potassium, Total	10	mg/L	323		.985	.985		06/09/2021	06/10/2021	WG176179
Selenium, Total	10	mg/L	<.00492	U	.00492	.00492		06/09/2021	06/10/2021	WG176179
Silver, Total	10	mg/L	<.000394	U	.000394	.000394	1	06/09/2021	06/10/2021	WG176179
Sodium, Total	10	mg/L	895		.985	.985		06/09/2021	06/10/2021	WG176179
Thallium, Total	10	mg/L	<.000985	U	.000985	.000985		06/09/2021	06/10/2021	WG176179
Tin, Total	10	mg/L	.0102		.00492	.00492		06/09/2021	06/10/2021	WG176179
Vanadium, Total	10	mg/L	.0348		.000738	.000738		06/09/2021	06/10/2021	WG176179
Zinc, Total	10	mg/L	.133		.00492	.00492	5	06/09/2021	06/10/2021	WG176179
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/09/2021	06/11/2021	WG176185

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 06/23/2021
 Report Group: CHLS-P_062221

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210615P	CollectDate: 06/15/2021
SDG/Lab Sample ID: 16189 / L77124-1	LoginDate: 06/15/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.411		.0496	.0496		06/16/2021	06/17/2021	WG176325
Antimony, Total	10	mg/L	.018		.00298	.00298		06/16/2021	06/17/2021	WG176325
Arsenic, Total	10	mg/L	.174		.000496	.000496	1	06/16/2021	06/17/2021	WG176325
Barium, Total	10	mg/L	.0376		.00496	.00496		06/16/2021	06/17/2021	WG176325
Beryllium, Total	10	mg/L	<.000992	U	.000992	.000992		06/16/2021	06/17/2021	WG176325
Cadmium, Total	10	mg/L	<.000496	U	.000496	.000496	0.5	06/16/2021	06/17/2021	WG176325
Calcium, Total	10	mg/L	62.9		.496	.496		06/16/2021	06/17/2021	WG176325
Chromium, Total	10	mg/L	.109		.00198	.00198	2.75	06/16/2021	06/17/2021	WG176325
Cobalt, Total	10	mg/L	.0277		.000496	.000496		06/16/2021	06/17/2021	WG176325
Copper, Total	10	mg/L	.00519		.00198	.00198	3	06/16/2021	06/17/2021	WG176325
Iron, Total	10	mg/L	6.62		.0992	.0992		06/16/2021	06/17/2021	WG176325
Lead, Total	10	mg/L	<.000992	U	.000992	.000992	2	06/16/2021	06/17/2021	WG176325
Magnesium, Total	10	mg/L	63.5		.496	.496		06/16/2021	06/17/2021	WG176325
Manganese, Total	10	mg/L	.336		.000992	.000992		06/16/2021	06/17/2021	WG176325
Nickel, Total	10	mg/L	.114		.000992	.000992	2.5	06/16/2021	06/17/2021	WG176325
Phosphorus, Total	10	mg/L	4		.992	.992		06/16/2021	06/17/2021	WG176325
Potassium, Total	10	mg/L	357		.992	.992		06/16/2021	06/17/2021	WG176325
Selenium, Total	10	mg/L	<.00496	U	.00496	.00496		06/16/2021	06/17/2021	WG176325
Silver, Total	10	mg/L	<.000397	U	.000397	.000397	1	06/16/2021	06/17/2021	WG176325
Sodium, Total	10	mg/L	1000		.992	.992		06/16/2021	06/17/2021	WG176325
Thallium, Total	10	mg/L	<.000744	U	.000744	.000744		06/16/2021	06/17/2021	WG176325
Tin, Total	10	mg/L	.00927		.00496	.00496		06/16/2021	06/17/2021	WG176325
Vanadium, Total	10	mg/L	.0377		.000744	.000744		06/16/2021	06/17/2021	WG176325
Zinc, Total	10	mg/L	.167		.00496	.00496	5	06/16/2021	06/17/2021	WG176325
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/16/2021	06/17/2021	WG176342

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 07/01/2021
 Report Group: CHLS-P_062921

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210622P	CollectDate: 06/22/2021
SDG/Lab Sample ID: 16260 / L77158-1	LoginDate: 06/22/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.369		.0498	.0498		06/23/2021	06/28/2021	WG176437
Antimony, Total	10	mg/L	.0158		.00299	.00299		06/23/2021	06/28/2021	WG176437
Arsenic, Total	10	mg/L	.157		.000498	.000498	1	06/23/2021	06/28/2021	WG176437
Barium, Total	10	mg/L	.0507		.00498	.00498		06/23/2021	06/28/2021	WG176437
Beryllium, Total	10	mg/L	<.000995	U	.000995	.000995		06/23/2021	06/28/2021	WG176437
Cadmium, Total	10	mg/L	<.000498	U	.000498	.000498	0.5	06/23/2021	06/28/2021	WG176437
Calcium, Total	10	mg/L	71.8		.498	.498		06/23/2021	06/28/2021	WG176437
Chromium, Total	10	mg/L	.107		.00199	.00199	2.75	06/23/2021	06/28/2021	WG176437
Cobalt, Total	10	mg/L	.0244		.000498	.000498		06/23/2021	06/28/2021	WG176437
Copper, Total	10	mg/L	.00349		.00199	.00199	3	06/23/2021	06/28/2021	WG176437
Iron, Total	10	mg/L	6.29		.0995	.0995		06/23/2021	06/28/2021	WG176437
Lead, Total	10	mg/L	.00138		.000995	.000995	2	06/23/2021	06/28/2021	WG176437
Magnesium, Total	10	mg/L	63.4		.498	.498		06/23/2021	06/28/2021	WG176437
Manganese, Total	10	mg/L	.483		.000995	.000995		06/23/2021	06/28/2021	WG176437
Nickel, Total	10	mg/L	.118		.000995	.000995	2.5	06/23/2021	06/28/2021	WG176437
Phosphorus, Total	10	mg/L	3.1		.995	.995		06/23/2021	06/28/2021	WG176437
Potassium, Total	10	mg/L	340		.995	.995		06/23/2021	06/28/2021	WG176437
Selenium, Total	10	mg/L	<.00498	U	.00498	.00498		06/23/2021	06/28/2021	WG176437
Silver, Total	10	mg/L	<.000398	U	.000398	.000398	1	06/23/2021	06/28/2021	WG176437
Sodium, Total	10	mg/L	957		.995	.995		06/23/2021	06/28/2021	WG176437
Thallium, Total	10	mg/L	<.000746	U	.000746	.000746		06/23/2021	06/28/2021	WG176437
Tin, Total	10	mg/L	.00671		.00498	.00498		06/23/2021	06/28/2021	WG176437
Vanadium, Total	10	mg/L	.0351		.000746	.000746		06/23/2021	06/28/2021	WG176437
Zinc, Total	10	mg/L	.199		.00498	.00498	5	06/23/2021	06/28/2021	WG176437
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/23/2021	06/29/2021	WG176457

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	03/26/21 @ 14:56
Sample Count	Interval Time (sec)	Bump Test Date
29152	30	05/13/21 @ 10:08
H2S Readings		
Date	Daily Max	Daily Average
6/1/2021	0.0	0.0
6/2/2021	2.5	0.007
6/3/2021	0.0	0.0
6/4/2021	0.0	0.0
6/5/2021	0.0	0.0
6/6/2021	4.0	0.04
6/7/2021	3.5	0.01
6/8/2021	2.5	0.03
6/9/2021	0.0	0.0
6/10/2021	0.0	0.0
6/11/2021	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: APRIL
 YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS
	BRIGHT		C.H.		SPOK.		C.H.		C.H.		C.H.		
LOAD	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		3.00		1.00									
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
TOTAL	0	21000.00	0	7000.00	0	0.00	0	0.00	0	0.00	0	0.00	

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JUNE
 YEAR: 2021

DATE	DUVALL						VASHON				HOBART		OTHER		REMARKS
	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		
LOAD	6000	7000	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								2							
16								2							
17								2							
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
TOTAL	0	0	0	0	0	0	0	42000	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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

August 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist, Solid Waste Division **NW**

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

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of July 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 7/7/21, 7/13/21, 7/23/21, and 7/29/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 7/1/21-7/9/21)
- Leachate Hauling Report (for July)

All results met permit-specified limits. Please contact me if you have any questions. I can be reached at (206) 263-3224. You may also contact me by e-mail at nina.wester@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD
Terri Barker, Environmental Scientist, SWD
Dan Swope, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD



King County

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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: July 2021

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)

Table with columns: Sample Date, Sample Type, pH, Arsenic, As (LIMIT, LOAD), Cadmium, Cd (LIMIT, LOAD), Chromium, Cr (LIMIT, LOAD), Copper, Cu (LIMIT, LOAD), Total Soluble Sulfides, Daily Industrial Flow, Notes. Rows 1-31.

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: [Handwritten Signature]

Date: 8/12/2021

Signature of Executive or Authorized Agent

Monthly Min pH 8.63
Monthly Max pH 8.69

7/7/2021
7/29/2021

Total Monthly Flow (gallons) 2,083,120
Maximum Daily Flow 312,800

7/14/2021

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: July 2021

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	0.00167	0.00227	<0.0001	0.00007	0.114	0.155	<0.0004	0.0003	0.229	0.311	
8												
9												
10												
11												
12												
13	C	0.00174	0.00234	<0.0001	0.00007	0.114	0.154	<0.0004	0.0003	0.166	0.224	
14												
15												
16												
17												
18												
19												
20												
21												
22												
23	C	0.00157	0.00145	<0.0001	0.00005	0.126	0.116	<0.0004	0.0002	0.137	0.126	
24												
25												
26												
27												
28												
29	C	0.00223	0.00208	<0.0001	0.00005	0.127	0.118	<0.0004	0.0002	0.151	0.141	
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.

Orange Kume

Signature of the Permittee, Executive or Authorized Agent

8/12/2021

Date

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7

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: July 2021

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	0.0	0.00	Y	<table border="1"> <tr><td>Parameter</td><td colspan="3">H2S - Air</td></tr> <tr><td>Monitoring Period</td><td colspan="3">July 1 - July 9, 2021</td></tr> <tr><td>Limit Type</td><td>15-min average</td><td>8-hr average</td><td>7- day average</td></tr> <tr><td>Limit</td><td>15.0 ppm</td><td>10.0 ppm</td><td>3.0 ppm</td></tr> <tr><td>Max Value</td><td>9.47 ppm</td><td>0.46 ppm</td><td>n/a</td></tr> <tr><td>Value</td><td>n/a</td><td>n/a</td><td>0.078 ppm</td></tr> </table> <p>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.</p> <p>DocuSigned by: <i>Orange Juana</i> Signature of Principal Executive or Authorized Agent</p> <p>8/12/2021 Date</p>	Parameter	H2S - Air			Monitoring Period	July 1 - July 9, 2021			Limit Type	15-min average	8-hr average	7- day average	Limit	15.0 ppm	10.0 ppm	3.0 ppm	Max Value	9.47 ppm	0.46 ppm	n/a	Value	n/a	n/a	0.078 ppm
Parameter	H2S - Air																											
Monitoring Period	July 1 - July 9, 2021																											
Limit Type	15-min average	8-hr average	7- day average																									
Limit	15.0 ppm	10.0 ppm	3.0 ppm																									
Max Value	9.47 ppm	0.46 ppm	n/a																									
Value	n/a	n/a	0.078 ppm																									
2	4.5	0.05	N																									
3	7.0	0.13	N																									
4	9.5	0.07	N																									
5	7.5	0.07	N																									
6	0.0	0.00	Y																									
7	17.0	0.15	N																									
8	11.5	0.12	N																									
9	3.0	0.04	N																									
10																												
11																												
12																												
13																												
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29																												
30																												
31																												

Monthly MAX	17.0
Monthly AVG	0.07

7/1/21-7/9/21

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

DocuSign Envelope ID: 4B1D8456-2B8B-41C9-8B5B-CA646F5B9FA7

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 07/14/2021
 Report Group: CHLS-P_071421

Report To: Nalaya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210707P	CollectDate: 07/07/2021
SDG/Lab Sample ID: 16221 / L77244-1	LoginDate: 07/07/2021
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	.454			.0495	.0495		07/08/2021	07/09/2021	WG176651
Antimony, Total	10	mg/L	.016			.00297	.00297		07/08/2021	07/09/2021	WG176651
Arsenic, Total	10	mg/L	.172			.000495	.000495	1	07/08/2021	07/09/2021	WG176651
Barium, Total	10	mg/L	.0557			.00495	.00495		07/08/2021	07/09/2021	WG176651
Beryllium, Total	10	mg/L	<.000989	U		.000989	.000989		07/08/2021	07/09/2021	WG176651
Cadmium, Total	10	mg/L	<.000495	U		.000495	.000495	0.5	07/08/2021	07/09/2021	WG176651
Calcium, Total	10	mg/L	67.6			.495	.495		07/08/2021	07/09/2021	WG176651
Chromium, Total	10	mg/L	.0993			.00198	.00198	2.75	07/08/2021	07/09/2021	WG176651
Cobalt, Total	10	mg/L	.0256			.000495	.000495		07/08/2021	07/09/2021	WG176651
Copper, Total	10	mg/L	.00805			.00198	.00198	3	07/08/2021	07/09/2021	WG176651
Iron, Total	10	mg/L	6.49			.0989	.0989		07/08/2021	07/09/2021	WG176651
Lead, Total	10	mg/L	.00167			.000989	.000989	2	07/08/2021	07/09/2021	WG176651
Magnesium, Total	10	mg/L	63.1			.495	.495		07/08/2021	07/09/2021	WG176651
Manganese, Total	10	mg/L	.461			.000989	.000989		07/08/2021	07/09/2021	WG176651
Nickel, Total	10	mg/L	.114			.000989	.000989	2.5	07/08/2021	07/09/2021	WG176651
Phosphorus, Total	10	mg/L	3.25			.989	.989		07/08/2021	07/09/2021	WG176651
Potassium, Total	10	mg/L	349			.989	.989		07/08/2021	07/09/2021	WG176651
Selenium, Total	10	mg/L	<.00495	U		.00495	.00495		07/08/2021	07/09/2021	WG176651
Silver, Total	10	mg/L	<.000396	U		.000396	.000396	1	07/08/2021	07/09/2021	WG176651
Sodium, Total	10	mg/L	1010			.989	.989		07/08/2021	07/09/2021	WG176651
Thallium, Total	10	mg/L	<.000742	U		.000742	.000742		07/08/2021	07/09/2021	WG176651
Tin, Total	10	mg/L	.00887			.00495	.00495		07/08/2021	07/09/2021	WG176651
Vanadium, Total	10	mg/L	.0375			.000742	.000742		07/08/2021	07/09/2021	WG176651
Zinc, Total	10	mg/L	229			.00495	.00495	5	07/08/2021	07/09/2021	WG176651
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		07/08/2021	07/09/2021	WG176667

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 07/22/2021
 Report Group: CHLS-P_072021

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210713P	Collect Date: 07/13/2021
SDG/Lab Sample ID: 16305 / L77306-1	Login Date: 07/13/2021
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	.371		.0498	.0498		07/14/2021	07/15/2021	WG176769
Antimony, Total	10	mg/L	.0173		.00299	.00299		07/14/2021	07/15/2021	WG176769
Arsenic, Total	10	mg/L	.178		.000498	.000498	1	07/14/2021	07/15/2021	WG176769
Barium, Total	10	mg/L	.0526		.00498	.00498		07/14/2021	07/15/2021	WG176769
Beryllium, Total	10	mg/L	<.000996	U	.000996	.000996		07/14/2021	07/15/2021	WG176769
Cadmium, Total	10	mg/L	<.000498	U	.000498	.000498	0.5	07/14/2021	07/15/2021	WG176769
Calcium, Total	10	mg/L	59.9		.498	.498		07/14/2021	07/15/2021	WG176769
Chromium, Total	10	mg/L	.105		.00199	.00199	2.75	07/14/2021	07/15/2021	WG176769
Cobalt, Total	10	mg/L	.0249		.000498	.000498		07/14/2021	07/15/2021	WG176769
Copper, Total	10	mg/L	.0076		.00199	.00199	3	07/14/2021	07/15/2021	WG176769
Iron, Total	10	mg/L	6.34		.0996	.0996		07/14/2021	07/15/2021	WG176769
Lead, Total	10	mg/L	.00174		.000996	.000996	2	07/14/2021	07/15/2021	WG176769
Magnesium, Total	10	mg/L	63.2		.498	.498		07/14/2021	07/15/2021	WG176769
Manganese, Total	10	mg/L	.404		.000996	.000996		07/14/2021	07/15/2021	WG176769
Nickel, Total	10	mg/L	.114		.000996	.000996	2.5	07/14/2021	07/15/2021	WG176769
Phosphorus, Total	10	mg/L	2.18		.996	.996		07/14/2021	07/15/2021	WG176769
Potassium, Total	10	mg/L	365		.996	.996		07/14/2021	07/15/2021	WG176769
Selenium, Total	10	mg/L	<.00498	U	.00498	.00498		07/14/2021	07/15/2021	WG176769
Silver, Total	10	mg/L	<.000399	U	.000399	.000399	1	07/14/2021	07/15/2021	WG176769
Sodium, Total	10	mg/L	991		.996	.996		07/14/2021	07/15/2021	WG176769
Thallium, Total	10	mg/L	<.000747	U	.000747	.000747		07/14/2021	07/15/2021	WG176769
Tin, Total	10	mg/L	.00949		.00498	.00498		07/14/2021	07/15/2021	WG176769
Vanadium, Total	10	mg/L	.0383		.000747	.000747		07/14/2021	07/15/2021	WG176769
Zinc, Total	10	mg/L	.166		.00498	.00498	5	07/14/2021	07/15/2021	WG176769
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/19/2021	07/20/2021	WG176878

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 08/05/2021
 Report Group: CHLS-P_073021

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210723P	CollectDate: 07/23/2021
SDG/Lab Sample ID: 16310 / L77331-1	LoginDate: 07/23/2021
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	.355		.0494	.0494		07/26/2021	07/27/2021	WG176991
Antimony, Total	10	mg/L	.0173		.00296	.00296		07/26/2021	07/27/2021	WG176991
Arsenic, Total	10	mg/L	.19		.000494	.000494	1	07/26/2021	07/27/2021	WG176991
Barium, Total	10	mg/L	.0434		.00494	.00494		07/26/2021	07/27/2021	WG176991
Beryllium, Total	10	mg/L	<.000987	U	.000987	.000987		07/26/2021	07/27/2021	WG176991
Cadmium, Total	10	mg/L	<.000494	U	.000494	.000494	0.5	07/26/2021	07/27/2021	WG176991
Calcium, Total	10	mg/L	47.5		.494	.494		07/26/2021	07/27/2021	WG176991
Chromium, Total	10	mg/L	.106		.00197	.00197	2.75	07/26/2021	07/27/2021	WG176991
Cobalt, Total	10	mg/L	.0252		.000494	.000494		07/26/2021	07/27/2021	WG176991
Copper, Total	10	mg/L	.00771		.00197	.00197	3	07/26/2021	07/27/2021	WG176991
Iron, Total	10	mg/L	5.83		.0987	.0987		07/26/2021	07/27/2021	WG176991
Lead, Total	10	mg/L	.00157		.000987	.000987	2	07/26/2021	07/27/2021	WG176991
Magnesium, Total	10	mg/L	63.8		.494	.494		07/26/2021	07/27/2021	WG176991
Manganese, Total	10	mg/L	.249		.000987	.000987		07/26/2021	07/27/2021	WG176991
Nickel, Total	10	mg/L	.126	D	.000987	.000987	2.5	07/26/2021	07/27/2021	WG176991
Phosphorus, Total	10	mg/L	2.86		.987	.987		07/26/2021	07/27/2021	WG176991
Potassium, Total	10	mg/L	360		.987	.987		07/26/2021	07/27/2021	WG176991
Selenium, Total	10	mg/L	<.00494	U	.00494	.00494		07/26/2021	07/27/2021	WG176991
Silver, Total	10	mg/L	<.000395	U	.000395	.000395	1	07/26/2021	07/27/2021	WG176991
Sodium, Total	10	mg/L	1060		.987	.987		07/26/2021	07/27/2021	WG176991
Thallium, Total	10	mg/L	<.00074	U	.00074	.00074		07/26/2021	07/27/2021	WG176991
Tin, Total	10	mg/L	.0085		.00494	.00494		07/26/2021	07/27/2021	WG176991
Vanadium, Total	10	mg/L	.0405		.00074	.00074		07/26/2021	07/27/2021	WG176991
Zinc, Total	10	mg/L	.137		.00494	.00494	5	07/26/2021	07/27/2021	WG176991
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/26/2021	07/27/2021	WG177001

Client Sample ID: LEPS210723F	CollectDate: 07/23/2021
SDG/Lab Sample ID: 16310 / L77331-2	LoginDate: 07/23/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	1	mg/L	<.005	U	.005	.005		07/26/2021	07/27/2021	WG176991
Antimony, Total	1	mg/L	<.0003	U	.0003	.0003		07/26/2021	07/27/2021	WG176991
Arsenic, Total	1	mg/L	<.00005	U	.00005	.00005	1	07/26/2021	07/27/2021	WG176991
Barium, Total	1	mg/L	<.0005	U	.0005	.0005		07/26/2021	07/27/2021	WG176991
Beryllium, Total	1	mg/L	<.0001	U	.0001	.0001		07/26/2021	07/27/2021	WG176991
Cadmium, Total	1	mg/L	<.00005	U	.00005	.00005	0.5	07/26/2021	07/27/2021	WG176991
Calcium, Total	1	mg/L	<.05	U	.05	.05		07/26/2021	07/27/2021	WG176991
Chromium, Total	1	mg/L	.000232		.0002	.0002	2.75	07/26/2021	07/27/2021	WG176991
Cobalt, Total	1	mg/L	<.00005	U	.00005	.00005		07/26/2021	07/27/2021	WG176991
Copper, Total	1	mg/L	<.0002	U	.0002	.0002	3	07/26/2021	07/27/2021	WG176991
Iron, Total	1	mg/L	<.01	U	.01	.01		07/26/2021	07/27/2021	WG176991
Lead, Total	1	mg/L	<.0001	U	.0001	.0001	2	07/26/2021	07/27/2021	WG176991
Magnesium, Total	1	mg/L	<.05	U	.05	.05		07/26/2021	07/27/2021	WG176991
Manganese, Total	1	mg/L	<.0001	U	.0001	.0001		07/26/2021	07/27/2021	WG176991

Page 1 of 2

Client Sample ID: **LEPS210723F**
SDG/Lab Sample ID: **16310 / L77331-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **07/23/2021**
LoginDate: **07/23/2021**
Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Nickel, Total	1	mg/L	<.0001	DU	.0001	.0001	2.5	07/26/2021	07/27/2021	WG176991
Phosphorus, Total	1	mg/L	<.1	U	.1	.1		07/26/2021	07/27/2021	WG176991
Potassium, Total	1	mg/L	<.1	U	.1	.1		07/26/2021	07/27/2021	WG176991
Selenium, Total	1	mg/L	<.0005	U	.0005	.0005		07/26/2021	07/27/2021	WG176991
Silver, Total	1	mg/L	<.00004	U	.00004	.00004	1	07/26/2021	07/27/2021	WG176991
Sodium, Total	1	mg/L	<.1	U	.1	.1		07/26/2021	07/27/2021	WG176991
Thallium, Total	1	mg/L	<.000075	U	.000075	.000075		07/26/2021	07/27/2021	WG176991
Tin, Total	1	mg/L	<.0005	U	.0005	.0005		07/26/2021	07/27/2021	WG176991
Vanadium, Total	1	mg/L	<.000075	U	.000075	.000075		07/26/2021	07/27/2021	WG176991
Zinc, Total	1	mg/L	<.0005	U	.0005	.0005	5	07/26/2021	07/27/2021	WG176991
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		07/26/2021	07/27/2021	WG177001

Target Parameter Count for SDG: **50**

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 08/05/2021
 Report Group: CHLS-P_080521

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS210729P	CollectDate: 07/29/2021
SDG/Lab Sample ID: 16333 / L77334-1	LoginDate: 07/29/2021
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	.536		.0499	.0499		07/30/2021	08/02/2021	WG177099
Antimony, Total	10	mg/L	.0192		.00299	.00299		07/30/2021	08/02/2021	WG177099
Arsenic, Total	10	mg/L	.199		.000499	.000499	1	07/30/2021	08/02/2021	WG177099
Barium, Total	10	mg/L	.0493		.00499	.00499		07/30/2021	08/02/2021	WG177099
Beryllium, Total	10	mg/L	<.000997	U	.000997	.000997		07/30/2021	08/02/2021	WG177099
Cadmium, Total	10	mg/L	<.000499	U	.000499	.000499	0.5	07/30/2021	08/02/2021	WG177099
Calcium, Total	10	mg/L	45.9		.499	.499		07/30/2021	08/02/2021	WG177099
Chromium, Total	10	mg/L	.122		.00199	.00199	2.75	07/30/2021	08/02/2021	WG177099
Cobalt, Total	10	mg/L	.0266		.000499	.000499		07/30/2021	08/02/2021	WG177099
Copper, Total	10	mg/L	.0099		.00199	.00199	3	07/30/2021	08/02/2021	WG177099
Iron, Total	10	mg/L	6.02		.0997	.0997		07/30/2021	08/02/2021	WG177099
Lead, Total	10	mg/L	.00223		.000997	.000997	2	07/30/2021	08/02/2021	WG177099
Magnesium, Total	10	mg/L	63.1		.499	.499		07/30/2021	08/02/2021	WG177099
Manganese, Total	10	mg/L	.248		.000997	.000997		07/30/2021	08/02/2021	WG177099
Nickel, Total	10	mg/L	.127		.000997	.000997	2.5	07/30/2021	08/02/2021	WG177099
Phosphorus, Total	10	mg/L	2.53		.997	.997		07/30/2021	08/02/2021	WG177099
Potassium, Total	10	mg/L	375		.997	.997		07/30/2021	08/02/2021	WG177099
Selenium, Total	10	mg/L	<.00499	U	.00499	.00499		07/30/2021	08/02/2021	WG177099
Silver, Total	10	mg/L	<.000399	U	.000399	.000399	1	07/30/2021	08/02/2021	WG177099
Sodium, Total	10	mg/L	1060		.997	.997		07/30/2021	08/02/2021	WG177099
Thallium, Total	10	mg/L	<.000748	U	.000748	.000748		07/30/2021	08/02/2021	WG177099
Tin, Total	10	mg/L	.00944		.00499	.00499		07/30/2021	08/02/2021	WG177099
Vanadium, Total	10	mg/L	.0416		.000748	.000748		07/30/2021	08/02/2021	WG177099
Zinc, Total	10	mg/L	.151		.00499	.00499	5	07/30/2021	08/02/2021	WG177099
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		08/02/2021	08/03/2021	WG177117

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	07/01/2021 @ 14:29
Sample Count	Interval Time (sec)	Bump Test Date
22849	30	07/01/2021 @ 14:21

H2S Readings

Date	Daily Max	Daily Average
7/1/2021	0.0	0.00
7/2/2021	4.5	0.05
7/3/2021	7.0	0.13
7/4/2021	9.5	0.07
7/5/2021	7.5	0.07
7/6/2021	0.0	0.00
7/7/2021	17.0	0.15
7/8/2021	11.5	0.12
7/9/2021	3.0	0.04

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: JULY
YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS		
	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.				
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000			
1															
2															
3															
4															
5															
6															
7															
8															
9															
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23															
24															
25															
26															
27															
28															
29															
30															
31															
TOTAL	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	42000.00	0	0.00	



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

September 15, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Colleen Christensen, Engineer III, Solid Waste Division

DS
CC

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

The purpose of the memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit Number 7842-03) for the month of August 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 8/4/21, 8/10/21, and 8/31/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 8/3/21-8/11/21)
- Leachate Hauling Report (for August)

All results met permit-specified limits. Please contact me if you have any questions. I can be reached at (206) 263-1020. You may also contact me by e-mail at colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, Facilities Engineering and Science Section Manager, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Jamey Barker, Supervising Engineer, SWD
Terri Barker, Environmental Scientist, SWD
Dan Swope, Engineer III, SWD
Subrina Tahsin, Engineer II, SWD
Natalya Usova, Engineer II, SWD
Nina Wester, Environmental Scientist, 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

Company Name: **King County SWD - Cedar Hills Landfill**

Sample Site No. **A90021**

Permit No.: **7842-03**

Please Specify Month & Year: **Month: August 2021**

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												0	
4	C	8.47	.205	.193	<.0005	.0002	.113	.106	.0108	.0101	< 0.1	112,600	
5												0	
6												790,800	
7												0	
8												0	
9												0	
10	C	8.15	.219	.2037	<.0005	.0002	.13	.121	.0107	.01	< 0.1	111,500	
11												400	
12												1,006,800	
13												514,100	
14												0	
15												0	
16												0	
17												0	
18												0	
19												0	
20												0	
21												0	
22												0	
23												0	
24												0	
25												0	
26												0	
27												0	
28												0	
29												813,600	
30												810,200	
31	C	8.66	.265	1.748	<.0005	.0016	.13	.858	.0118	.0778	< 0.1	791,000	
Monthly Min pH		8.15											
Monthly Max pH		8.66											
Total Monthly Flow (gallons)		4,951,000											
Maximum Daily Flow		1,006,800											

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.

DocuSigned by:

Signature of Principal Executive or Authorized Agent
A70EEC0AE02F44A...

Sep 15, 2021
Date



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: August 2021

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	.00205	.0019	<.0001	.00005	.127	.119	<.0004	.0002	.161	.151	
5												
6												
7												
8												
9												
10	C	.0026	.0017	<.0005	.0002	.136	.127	<.0005	.0002	.147	.137	
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	C	.00383	.0253	<.0001	.0003	.142	.937	<.0004	.0013	.246	1.623	

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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent
 A70EEC0AE02F44A...

Sep 15, 2021
 Date



King County

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

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: August 2021

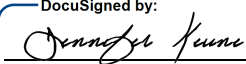
This form is available at www.kingcounty.gov/industrialwaste.

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	0.5	0.001258389	N	
4	1	0.001909722	N	
5	0	0	N	
6	1.5	0.005381944	Y	
7	2	0.018055556	N	
8	0	0	N	
9	0	0	N	
10	0	0	N	
11	0	0	N	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Monthly MAX	2			
Monthly AVG	0.0			
			8/7/21	

Parameter	H2S - Air
Monitoring Period	Aug 3 - Aug 11, 2021
Limit Type	15-min average
Limit	15.0 ppm
	8-hr average
	10.0 ppm
	7-day average
	3.0 ppm
Max Value	1.44 ppm
Value	N/A
	N/A
	0.003 ppm

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.

DocuSigned by:  Sep 15, 2021
 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: 08/13/2021
 Report Group: CHLS-P_081121

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210804P**
 SDG/Lab Sample ID: **16336 / L77420-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/04/2021**
 LoginDate: **08/04/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.326		.05	.05		08/05/2021	08/09/2021	WG177167
Antimony, Total	10	mg/L	.0203		.003	.003		08/05/2021	08/09/2021	WG177167
Arsenic, Total	10	mg/L	.205		.0005	.0005	1	08/05/2021	08/09/2021	WG177167
Barium, Total	10	mg/L	.0539		.005	.005		08/05/2021	08/09/2021	WG177167
Beryllium, Total	10	mg/L	<.001	U	.001	.001		08/05/2021	08/09/2021	WG177167
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	08/05/2021	08/09/2021	WG177167
Calcium, Total	10	mg/L	45.5		.5	.5		08/05/2021	08/09/2021	WG177167
Chromium, Total	10	mg/L	.113		.002	.002	2.75	08/05/2021	08/09/2021	WG177167
Cobalt, Total	10	mg/L	.0294		.0005	.0005		08/05/2021	08/09/2021	WG177167
Copper, Total	10	mg/L	.0108		.002	.002	3	08/05/2021	08/09/2021	WG177167
Iron, Total	10	mg/L	6.27		.1	.1		08/05/2021	08/09/2021	WG177167
Lead, Total	10	mg/L	.00205		.001	.001	2	08/05/2021	08/09/2021	WG177167
Magnesium, Total	10	mg/L	68		.5	.5		08/05/2021	08/09/2021	WG177167
Manganese, Total	10	mg/L	.237		.001	.001		08/05/2021	08/09/2021	WG177167
Nickel, Total	10	mg/L	.127		.001	.001	2.5	08/05/2021	08/09/2021	WG177167
Phosphorus, Total	10	mg/L	3.15		1	1		08/05/2021	08/09/2021	WG177167
Potassium, Total	10	mg/L	393		1	1		08/05/2021	08/09/2021	WG177167
Selenium, Total	10	mg/L	<.005	U	.005	.005		08/05/2021	08/09/2021	WG177167
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	08/05/2021	08/09/2021	WG177167
Sodium, Total	10	mg/L	1170		1	1		08/05/2021	08/09/2021	WG177167
Thallium, Total	10	mg/L	<.00075	U	.00075	.00075		08/05/2021	08/09/2021	WG177167
Tin, Total	10	mg/L	.0109		.005	.005		08/05/2021	08/09/2021	WG177167
Vanadium, Total	10	mg/L	.0441		.00075	.00075		08/05/2021	08/09/2021	WG177167
Zinc, Total	10	mg/L	.161		.005	.005	5	08/05/2021	08/09/2021	WG177167
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		08/05/2021	08/06/2021	WG177187

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 08/20/2021
 Report Group: CHLS-P_081721

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210810P**
 SDG/Lab Sample ID: **16369 / L77474-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/10/2021**
 LoginDate: **08/10/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q								
Mercury, Total	10	mg/L	<.0005	U	.0005	.0005			08/11/2021	08/12/2021	WG177258	
Aluminum, Total	10	mg/L	.292		.0498	.0498			08/11/2021	08/12/2021	WG177271	
Antimony, Total	10	mg/L	.0243		.00299	.00299			08/11/2021	08/12/2021	WG177271	
Arsenic, Total	10	mg/L	.219		.000498	.000498	1		08/11/2021	08/12/2021	WG177271	
Barium, Total	10	mg/L	.0521		.00498	.00498			08/11/2021	08/12/2021	WG177271	
Beryllium, Total	10	mg/L	<.000996	U	.000996	.000996			08/11/2021	08/12/2021	WG177271	
Cadmium, Total	10	mg/L	<.000498	U	.000498	.000498	0.5		08/11/2021	08/12/2021	WG177271	
Calcium, Total	10	mg/L	38.4		.498	.498			08/11/2021	08/12/2021	WG177271	
Chromium, Total	10	mg/L	.13		.00199	.00199	2.75		08/11/2021	08/12/2021	WG177271	
Cobalt, Total	10	mg/L	.0318		.000498	.000498			08/11/2021	08/12/2021	WG177271	
Copper, Total	10	mg/L	.0107		.00199	.00199	3		08/11/2021	08/12/2021	WG177271	
Iron, Total	10	mg/L	5.6		.0996	.0996			08/11/2021	08/12/2021	WG177271	
Lead, Total	10	mg/L	.0026		.000996	.000996	2		08/11/2021	08/12/2021	WG177271	
Magnesium, Total	10	mg/L	67.9		.498	.498			08/11/2021	08/12/2021	WG177271	
Manganese, Total	10	mg/L	.168		.000996	.000996			08/11/2021	08/12/2021	WG177271	
Nickel, Total	10	mg/L	.136		.000996	.000996	2.5		08/11/2021	08/12/2021	WG177271	
Phosphorus, Total	10	mg/L	3.51		.996	.996			08/11/2021	08/12/2021	WG177271	
Potassium, Total	10	mg/L	407		.996	.996			08/11/2021	08/12/2021	WG177271	
Selenium, Total	10	mg/L	<.00498	U	.00498	.00498			08/11/2021	08/12/2021	WG177271	
Silver, Total	10	mg/L	<.000398	U	.000398	.000398	1		08/11/2021	08/12/2021	WG177271	
Sodium, Total	10	mg/L	1200		.996	.996			08/11/2021	08/12/2021	WG177271	
Thallium, Total	10	mg/L	<.000747	U	.000747	.000747			08/11/2021	08/12/2021	WG177271	
Tin, Total	10	mg/L	.0133		.00498	.00498			08/11/2021	08/12/2021	WG177271	
Vanadium, Total	10	mg/L	.0444	D	.000747	.000747			08/11/2021	08/12/2021	WG177271	
Zinc, Total	10	mg/L	.147		.00498	.00498	5		08/11/2021	08/12/2021	WG177271	

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 09/10/2021
 Report Group: CHLS-P_090721

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210831P**
 SDG/Lab Sample ID: **16379 / L77535-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **08/31/2021**
 LoginDate: **09/01/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.519		.0501	.0501		09/02/2021	09/02/2021	WG177718
Antimony, Total	10	mg/L	.024		.00301	.00301		09/02/2021	09/02/2021	WG177718
Arsenic, Total	10	mg/L	.265		.000501	.000501	1	09/02/2021	09/02/2021	WG177718
Barium, Total	10	mg/L	.115		.00501	.00501		09/02/2021	09/02/2021	WG177718
Beryllium, Total	10	mg/L	<.001	U	.001	.001		09/02/2021	09/02/2021	WG177718
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	09/02/2021	09/02/2021	WG177718
Calcium, Total	10	mg/L	63		.501	.501		09/02/2021	09/02/2021	WG177718
Chromium, Total	10	mg/L	.13		.002	.002	2.75	09/02/2021	09/02/2021	WG177718
Cobalt, Total	10	mg/L	.0341		.000501	.000501		09/02/2021	09/02/2021	WG177718
Copper, Total	10	mg/L	.0118		.002	.002	3	09/02/2021	09/02/2021	WG177718
Iron, Total	10	mg/L	6.63		.1	.1		09/02/2021	09/02/2021	WG177718
Lead, Total	10	mg/L	.00383		.001	.001	2	09/02/2021	09/02/2021	WG177718
Magnesium, Total	10	mg/L	78		.501	.501		09/02/2021	09/02/2021	WG177718
Manganese, Total	10	mg/L	.541		.001	.001		09/02/2021	09/02/2021	WG177718
Nickel, Total	10	mg/L	.142		.001	.001	2.5	09/02/2021	09/02/2021	WG177718
Phosphorus, Total	10	mg/L	2.84		1	1		09/02/2021	09/02/2021	WG177718
Potassium, Total	10	mg/L	478		1	1		09/02/2021	09/02/2021	WG177718
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		09/02/2021	09/02/2021	WG177718
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	09/02/2021	09/02/2021	WG177718
Sodium, Total	10	mg/L	1330		1	1		09/02/2021	09/02/2021	WG177718
Thallium, Total	10	mg/L	<.000752	U	.000752	.000752		09/02/2021	09/02/2021	WG177718
Tin, Total	10	mg/L	.0104		.00501	.00501		09/02/2021	09/02/2021	WG177718
Vanadium, Total	10	mg/L	.0576		.000752	.000752		09/02/2021	09/02/2021	WG177718
Zinc, Total	10	mg/L	.246		.00501	.00501	5	09/02/2021	09/02/2021	WG177718
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/03/2021	09/07/2021	WG177729

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	7/1/21 @ 14:29
Sample Count	Interval Time (sec)	Bump Test Date
22002	30	8/3/21 @ 07:00
H2S Readings		
Date	Daily Max	Daily Average
8/3/2021	0.5	0.001258389
8/4/2021	1	0.001909722
8/5/2021	0	0
8/6/2021	1.5	0.005381944
8/7/2021	2	0.018055556
8/8/2021	0	0
8/9/2021	0	0
8/10/2021	0	0
8/11/2021	0	0



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

October 12, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of September 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 9/14/21, 9/22/21, 9/28/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 9/1/21-9/9/21; 9/27/21-9/29/21)
- Leachate Hauling Report (for September)

At monitoring location A90021, one soluble sulfide screening level exceedance was measured during the month of September, on 9/22. KCIW was notified of this exceedance on 9/22. There were also two arsenic loading exceedances measured on 9/14 and 9/22. KCIW was notified of these exceedances on 9/22 and 10/4, respectively. Details of these exceedances are provided in two 14-day reports – one submitted on 9/30, and the other appended to this SMR, per KCIW guidance.

Since no discharge occurred from A90021 between 9/1-9/12, the Eagle gas meter was redeployed from 9/27-9/29 to coincide with a soluble sulfide measurement, per S.4.A.1³.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov, or Colleen Christensen at (206) 263-1020, colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD
Jamey Barker, P.E., Engineer Supervisor, SWD

Biniam Zelelow
October 14, 2021
Page 2

Jennifer Keune, Environmental Compliance Coordinator, SWD
Colleen Christensen, Engineer III, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer 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

Company Name: **King County SWD - Cedar Hills Landfill**

Sample Site No. **A90021**

Permit No.: **7842-03**

Please Specify Month & Year: **Month: September 2021**

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												0	No discharge
4												0	From 9/1/21
5												0	To 9/12/21;
6												0	No samples
7												0	taken
8												0	
9												0	
10												0	
11												0	
12												823,100	
13												825,100	
14	C	8.62	0.351	0.3085	<0.0005	0.0002	0.173	0.1521	0.0158	0.0139	<0.1 ppm	105,400	
15												413,200	
16												0	
17												0	
18												0	
19												0	
20												0	
21												854,600	
22	C	8.57	0.278	0.9930	<0.0005	0.0009	0.161	0.5751	0.0177	0.0632	0.5 ppm	428,300	
23												0	
24												0	
25												734,200	
26												600	
27												84,600	
28	C	8.56	0.268	0.1891	<0.0005	0.0002	0.157	0.1108	0.00753	0.0053	<0.1 ppm	914,000	
29												380,900	
30												N/A	
31												N/A	

Monthly Min pH: 8.56
Monthly Max pH: 8.62

9/22/21
9/14/21

Total Monthly Flow (gallons): 5,564,000
Maximum Daily Flow: 914,000

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

9/29/21

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.

DocuSigned by: 10/14/2021
Signature of Principal Executive or Authorized Agent Date



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: September 2021

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												No discharge
4												From 9/1/21 To 9/12/21:
5												No samples taken
6												
7												
8												
9												
10												
11												
12												
13												
14	C	0.00429	0.00377	<0.0001	0.00004	0.172	0.151	<0.0004	0.0002	0.398	0.350	
15												
16												
17												
18												
19												
20												
21												
22	C	0.00425	0.01518	<0.0001	0.00018	0.184	0.657	<0.0004	0.0007	0.499	1.782	
23												
24												
25												
26												
27												
28	C	0.00383	0.00270	<0.0001	0.00004	0.184	0.130	<0.0004	0.0001	0.438	0.309	
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.

DocuSigned by:

Signature of Principal Executive or Authorized Agent

10/14/2021

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

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

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: September 2021

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	2.5	0.023	N
2	0	0	N
3	1	0.008	N
4	4.5	0.217	N
5	3.5	0.318	N
6	3.5	0.066	N
7	1	0.003	N
8	0	0	N
9	0	0	N
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27	0	0	Y
28	0	0	Y
29	0	0	Y
30			
31			
Monthly MAX	4.5		
Monthly AVG	0.053		

9/4/21

Parameter	H ₂ S - Air
Monitoring Period	September 27-29, 2021
Limit Type	15-min average
Limit	15.0 ppm
Max Value	0
Value	N/A

Parameter	H ₂ S - Air
Monitoring Period	September 1-9, 2021
Limit Type	15-min average
Limit	15.0 ppm
Max Value	3.68
Value	N/A

Per S.4.A.1, the Eagle gas meter was redeployed from 9/27-9/29 to coincide with a soluble sulfide sampling event. Since there was no discharge from 9/1-9/12, the first monitoring period (9/1-9/9) did not coincide with a soluble sulfide sampling event.

Notes

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H₂S - Air MAX
- H₂S - Air Average
- Monthly MAX
- Monthly Average

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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent

10/14/2021
 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: 09/22/2021
 Report Group: CHLS-P_092121

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210914P**
 SDG/Lab Sample ID: **16432 / L77545-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/14/2021**
 LoginDate: **09/14/2021**
 Matrix: **LEACHATE**

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.992		.0513	.0513		09/16/2021	09/17/2021	WG177925
Antimony, Total	10	mg/L	.0419		.00308	.00308		09/16/2021	09/17/2021	WG177925
Arsenic, Total	10	mg/L	.351		.000513	.000513	1	09/16/2021	09/17/2021	WG177925
Barium, Total	10	mg/L	.143		.00513	.00513		09/16/2021	09/17/2021	WG177925
Beryllium, Total	10	mg/L	<.00103	U	.00103	.00103		09/16/2021	09/17/2021	WG177925
Cadmium, Total	10	mg/L	<.000513	U	.000513	.000513	0.5	09/16/2021	09/17/2021	WG177925
Calcium, Total	10	mg/L	64		.513	.513		09/16/2021	09/17/2021	WG177925
Chromium, Total	10	mg/L	.173		.00205	.00205	2.75	09/16/2021	09/17/2021	WG177925
Cobalt, Total	10	mg/L	.0416		.000513	.000513		09/16/2021	09/17/2021	WG177925
Copper, Total	10	mg/L	.0158		.00205	.00205	3	09/16/2021	09/17/2021	WG177925
Iron, Total	10	mg/L	8.3		.103	.103		09/16/2021	09/17/2021	WG177925
Lead, Total	10	mg/L	.00429		.00103	.00103	2	09/16/2021	09/17/2021	WG177925
Magnesium, Total	10	mg/L	97.8		.513	.513		09/16/2021	09/17/2021	WG177925
Manganese, Total	10	mg/L	.459		.00103	.00103		09/16/2021	09/17/2021	WG177925
Nickel, Total	10	mg/L	.172		.00103	.00103	2.5	09/16/2021	09/17/2021	WG177925
Phosphorus, Total	10	mg/L	6.57		1.03	1.03		09/16/2021	09/17/2021	WG177925
Potassium, Total	10	mg/L	542		1.03	1.03		09/16/2021	09/17/2021	WG177925
Selenium, Total	10	mg/L	<.00513	U	.00513	.00513		09/16/2021	09/17/2021	WG177925
Silver, Total	10	mg/L	<.00041	U	.00041	.00041	1	09/16/2021	09/17/2021	WG177925
Sodium, Total	10	mg/L	1540		1.03	1.03		09/16/2021	09/17/2021	WG177925
Thallium, Total	10	mg/L	<.000769	U	.000769	.000769		09/16/2021	09/17/2021	WG177925
Tin, Total	10	mg/L	.0127		.00513	.00513		09/16/2021	09/17/2021	WG177925
Vanadium, Total	10	mg/L	.0796		.000769	.000769		09/16/2021	09/17/2021	WG177925
Zinc, Total	10	mg/L	.398		.00513	.00513	5	09/16/2021	09/17/2021	WG177925
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		09/17/2021	09/20/2021	WG177965

Client Sample ID: **LEPS210914D**
 SDG/Lab Sample ID: **16432 / L77545-2**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/14/2021**
 LoginDate: **09/14/2021**
 Matrix: **LEACHATE**

Metals										
Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.883		.0488	.0488		09/16/2021	09/17/2021	WG177925
Antimony, Total	10	mg/L	.0344		.00293	.00293		09/16/2021	09/17/2021	WG177925
Arsenic, Total	10	mg/L	.337		.000488	.000488	1	09/16/2021	09/17/2021	WG177925
Barium, Total	10	mg/L	.152		.00488	.00488		09/16/2021	09/17/2021	WG177925
Beryllium, Total	10	mg/L	<.000976	U	.000976	.000976		09/16/2021	09/17/2021	WG177925
Cadmium, Total	10	mg/L	<.000488	U	.000488	.000488	0.5	09/16/2021	09/17/2021	WG177925
Calcium, Total	10	mg/L	70.4		.488	.488		09/16/2021	09/17/2021	WG177925
Chromium, Total	10	mg/L	.157		.00195	.00195	2.75	09/16/2021	09/17/2021	WG177925
Cobalt, Total	10	mg/L	.0375		.000488	.000488		09/16/2021	09/17/2021	WG177925
Copper, Total	10	mg/L	.0122		.00195	.00195	3	09/16/2021	09/17/2021	WG177925
Iron, Total	10	mg/L	8.25		.0976	.0976		09/16/2021	09/17/2021	WG177925
Lead, Total	10	mg/L	.00433		.000976	.000976	2	09/16/2021	09/17/2021	WG177925
Magnesium, Total	10	mg/L	99.6		.488	.488		09/16/2021	09/17/2021	WG177925
Manganese, Total	10	mg/L	.557		.000976	.000976		09/16/2021	09/17/2021	WG177925

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 10/04/2021
 Report Group: CHLS-P_092921

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210922P**
 SDG/Lab Sample ID: **16412 / L77698-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/22/2021**
 LoginDate: **09/22/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q								
Aluminum, Total	10	mg/L	.985			.0486	.0486		09/23/2021	09/24/2021	WG178068	
Antimony, Total	10	mg/L	.0305			.00292	.00292		09/23/2021	09/24/2021	WG178068	
Arsenic, Total	10	mg/L	.278			.000486	.000486	1	09/23/2021	09/24/2021	WG178068	
Barium, Total	10	mg/L	.159			.00486	.00486		09/23/2021	09/24/2021	WG178068	
Beryllium, Total	10	mg/L	<.000972	U		.000972	.000972		09/23/2021	09/24/2021	WG178068	
Cadmium, Total	10	mg/L	<.000486	U		.000486	.000486	0.5	09/23/2021	09/24/2021	WG178068	
Calcium, Total	10	mg/L	81.6			.486	.486		09/23/2021	09/24/2021	WG178068	
Chromium, Total	10	mg/L	.161			.00194	.00194	2.75	09/23/2021	09/24/2021	WG178068	
Cobalt, Total	10	mg/L	.0373			.000486	.000486		09/23/2021	09/24/2021	WG178068	
Copper, Total	10	mg/L	.0177			.00194	.00194	3	09/23/2021	09/24/2021	WG178068	
Iron, Total	10	mg/L	9.29	D		.0972	.0972		09/23/2021	09/29/2021	WG178068	
Lead, Total	10	mg/L	.00425			.000972	.000972	2	09/23/2021	09/24/2021	WG178068	
Magnesium, Total	10	mg/L	103			.486	.486		09/23/2021	09/24/2021	WG178068	
Manganese, Total	10	mg/L	.673			.000972	.000972		09/23/2021	09/24/2021	WG178068	
Nickel, Total	10	mg/L	.184	D		.000972	.000972	2.5	09/23/2021	09/29/2021	WG178068	
Phosphorus, Total	10	mg/L	5.15			.972	.972		09/23/2021	09/24/2021	WG178068	
Potassium, Total	10	mg/L	546			.972	.972		09/23/2021	09/24/2021	WG178068	
Selenium, Total	10	mg/L	<.00486	U		.00486	.00486		09/23/2021	09/24/2021	WG178068	
Silver, Total	10	mg/L	<.000389	U		.000389	.000389	1	09/23/2021	09/24/2021	WG178068	
Sodium, Total	10	mg/L	1540			.972	.972		09/23/2021	09/24/2021	WG178068	
Thallium, Total	10	mg/L	<.000729	U		.000729	.000729		09/23/2021	09/24/2021	WG178068	
Tin, Total	10	mg/L	.0127			.00486	.00486		09/23/2021	09/24/2021	WG178068	
Vanadium, Total	10	mg/L	.0855			.000729	.000729		09/23/2021	09/24/2021	WG178068	
Zinc, Total	10	mg/L	.499			.00486	.00486	5	09/23/2021	09/24/2021	WG178068	
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		09/23/2021	09/24/2021	WG178085	

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 10/07/2021
 Report Group: CHLS-P_100521

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS210928P**
 SDG/Lab Sample ID: **16433 / L77705-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **09/28/2021**
 LoginDate: **09/28/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q								
Aluminum, Total	10	mg/L	.665			.0503	.0503		09/29/2021	09/29/2021	WG178139	
Antimony, Total	10	mg/L	.0273			.00302	.00302		09/29/2021	09/29/2021	WG178139	
Arsenic, Total	10	mg/L	.268			.000503	.000503	1	09/29/2021	09/29/2021	WG178139	
Barium, Total	10	mg/L	.137			.00503	.00503		09/29/2021	09/29/2021	WG178139	
Beryllium, Total	10	mg/L	<.00101	U		.00101	.00101		09/29/2021	09/29/2021	WG178139	
Cadmium, Total	10	mg/L	<.000503	U		.000503	.000503	0.5	09/29/2021	09/29/2021	WG178139	
Calcium, Total	10	mg/L	70.1			.503	.503		09/29/2021	09/29/2021	WG178139	
Chromium, Total	10	mg/L	.157			.00201	.00201	2.75	09/29/2021	09/29/2021	WG178139	
Cobalt, Total	10	mg/L	.0356			.000503	.000503		09/29/2021	09/29/2021	WG178139	
Copper, Total	10	mg/L	.00753			.00201	.00201	3	09/29/2021	09/29/2021	WG178139	
Iron, Total	10	mg/L	8.69			.101	.101		09/29/2021	09/29/2021	WG178139	
Lead, Total	10	mg/L	.00383			.00101	.00101	2	09/29/2021	09/29/2021	WG178139	
Magnesium, Total	10	mg/L	100			.503	.503		09/29/2021	09/29/2021	WG178139	
Manganese, Total	10	mg/L	.573			.00101	.00101		09/29/2021	09/29/2021	WG178139	
Nickel, Total	10	mg/L	.184			.00101	.00101	2.5	09/29/2021	09/29/2021	WG178139	
Phosphorus, Total	10	mg/L	3.8			1.01	1.01		09/29/2021	09/29/2021	WG178139	
Potassium, Total	10	mg/L	547			1.01	1.01		09/29/2021	09/29/2021	WG178139	
Selenium, Total	10	mg/L	<.00503	U		.00503	.00503		09/29/2021	09/29/2021	WG178139	
Silver, Total	10	mg/L	<.000403	U		.000403	.000403	1	09/29/2021	09/29/2021	WG178139	
Sodium, Total	10	mg/L	1500			1.01	1.01		09/29/2021	09/29/2021	WG178139	
Thallium, Total	10	mg/L	<.000755	U		.000755	.000755		09/29/2021	09/29/2021	WG178139	
Tin, Total	10	mg/L	.0104			.00503	.00503		09/29/2021	09/29/2021	WG178139	
Vanadium, Total	10	mg/L	.0835			.000755	.000755		09/29/2021	09/29/2021	WG178139	
Zinc, Total	10	mg/L	.438			.00503	.00503	5	09/29/2021	09/29/2021	WG178139	
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		09/29/2021	09/30/2021	WG178155	

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MH R10-52		
Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	7/1/2021 14:29:03
Sample Count	Interval Time (sec)	Bump Test Date
23118	30	9/1/2021 09:19:26
H2S Readings		
Date	Daily Max	Daily Average
9/1/2021	2.5	0.023
9/2/2021	0	0
9/3/2021	1	0.008
9/4/2021	4.5	0.217
9/5/2021	3.5	0.318
9/6/2021	3.5	0.066
9/7/2021	1	0.003
9/8/2021	0	0
9/9/2021	0	0

HYDROGEN SULFIDE GAS AT MANHOLE R10-52		
Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	7/1/2021 14:29:03
Sample Count	Interval Time (sec)	Bump Test Date
5666	30	9/23/2021 13:06:22
H2S Readings		
Date	Daily Max	Daily Average
9/27/2021	0	0
9/28/2021	0	0
9/29/2021	0	0

KING COUNTY SOLID WASTE DIVISION
 LEACHATE HAULING REPORT
 TANKER LOADS

MONTH: SEPTEMBER
 YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS	
	BRIGHT		C.H.		SPOK		C.H.		C.H.		C.H.			
LOAD	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							1							
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
TOTAL	0	0	0	0	0	0	6000	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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

November 10, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of October 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 10/6/21, 10/13/21, 10/21/21, and 10/26/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 10/1/21-10/11/21)
- Leachate Hauling Report (for October)

The following exceedances occurred during the month of October:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Atmospheric H ₂ S	10/3/21	10/12/21	10/12/21 @ 11:09
Soluble Sulfide	10/13/21	10/13/21	10/13/21 @ 13:58
Arsenic Loading	10/13/21	10/21/21	10/21/21 @ 14:15

Details of these exceedances are provided in two 14-day reports – one submitted on 10/26, and the other appended to this SMR, per KCIW guidance.

Please contact me directly if you have any questions. I can be reached at (206) 263-1020, on my cell phone at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov, or Colleen Christensen at (206) 263-1020, colleen.christensen@kingcounty.gov.

Enclosures

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
Theresa Thurlow, P.E., Section Manager, SWD

Biniam Zelelow
November 10, 2021
Page 2

Jamey Barker, P.E., Engineer Supervisor, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Colleen Christensen, Engineer III, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer 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

Company Name: **King County SWD - Cedar Hills Landfill**

Sample Site No. **A90021**

Permit No.: **7842-03**

Please Specify Month & Year: **Month: October 2021**

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												0	
2												0	
3												833,700	
4												779,100	
5												416,800	
6	C	8.58	0.259	0.1789	<0.0005	0.0002	0.154	0.1063	0.0245	0.0169	0.1 ppm	82,800	
7												513,200	
8												0	
9												0	
10												0	
11												0	
12												963,700	
13	C	8.61	0.22	0.2805	<0.0005	0.0003	0.123	0.1568	0.0136	0.0173	0.2 ppm	152,900	
14												0	
15												0	
16												0	
17												0	
18												0	
19												0	
20												0	
21	C	8.50	0.214	0.1521	<0.0005	0.0002	0.121	0.0860	0.00874	0.0062	<0.1 ppm	85,200	
22												820,200	
23												824,000	
24												797,700	
25												615,400	
26	C	8.56	0.178	0.1642	0.0006	0.0006	0.106	0.0978	0.0117	0.0108	<0.1 ppm	110,600	
27												983,400	
28												2,442,100	
29												925,200	
30												1,401,900	
31												1,030,800	

Monthly Min pH: 8.50
 Monthly Max pH: 8.61

10/21/21
 10/13/21

Total Monthly Flow (gallons): 13,778,700
 Maximum Daily Flow: 2,442,100

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

10/28/21

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: **Nov 10, 2021**



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

Sample Site No. A90021

Permit No.: 7842-03

Please Specify Month & Year: Month: October 2021

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	0.00348	0.00240	<0.0001	0.00003	0.168	0.116	<0.0004	0.0001	0.458	0.316	
7												
8												
9												
10												
11												
12												
13	C	0.00291	0.00371	<0.0001	0.00006	0.146	0.186	<0.0004	0.0003	0.342	0.436	
14												
15												
16												
17												
18												
19												
20												
21	C	0.00241	0.00171	<0.0002	0.00007	0.15	0.107	<0.0004	0.0001	0.311	0.221	
22												
23												
24												
25												
26	C	0.00239	0.00220	<0.0001	0.00005	0.126	0.116	<0.0004	0.0002	0.3	0.277	
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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent

Nov 10, 2021
 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

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

H2S Monitoring

Company Name: King County SWD - Cedar Hills Landfill

Sample Site No. A9002

Permit No.: 7842-03

Please Specify Month & Year: Month: October 2021

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	0	0	Y
2	0	0	Y
3	58	0.399	Y
4	0	0	Y
5	0	0	Y
6	0	0	Y
7	0	0	Y
8	0	0	Y
9	0	0	Y
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	58		
Monthly AVG	0.04		

10/3/21

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Parameter	H ₂ S - Air	Notes
Monitoring Period	October 1-11, 2021	
Limit Type	15-min average	
Limit	15.0 ppm	
Max Value	30.3	
Value	N/A	
	8-hr average	
	10.0 ppm	
	7-day average	
	1.19	
	N/A	
	0.066	

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H₂S - Air MAX
- H₂S - Air Average
- Monthly MAX
- Monthly Average

Information about the atmospheric H₂S exceedance was included in a 14-day report, submitted to KCIW on 10/26/21.

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.

DocuSigned by:

 Signature of Principal Executive or Authorized Agent

Nov 10, 2021
 Date

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 10/14/2021
 Report Group: CHLS-P_101321

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211006P**
 SDG/Lab Sample ID: **16436 / L77701-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/06/2021**
 LoginDate: **10/06/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q								
Aluminum, Total	10	mg/L	1.3	J		.05	.05		10/07/2021	10/11/2021	WG178295	
Antimony, Total	10	mg/L	.0305			.003	.003		10/07/2021	10/11/2021	WG178295	
Arsenic, Total	10	mg/L	.259			.0005	.0005	1	10/07/2021	10/11/2021	WG178295	
Barium, Total	10	mg/L	.183			.005	.005		10/07/2021	10/11/2021	WG178295	
Beryllium, Total	10	mg/L	<.001	U		.001	.001		10/07/2021	10/11/2021	WG178295	
Cadmium, Total	10	mg/L	<.0005	U		.0005	.0005	0.5	10/07/2021	10/11/2021	WG178295	
Calcium, Total	10	mg/L	99.1			.5	.5		10/07/2021	10/11/2021	WG178295	
Chromium, Total	10	mg/L	.154			.002	.002	2.75	10/07/2021	10/11/2021	WG178295	
Cobalt, Total	10	mg/L	.0368			.0005	.0005		10/07/2021	10/11/2021	WG178295	
Copper, Total	10	mg/L	.0245			.002	.002	3	10/07/2021	10/11/2021	WG178295	
Iron, Total	10	mg/L	9.69			.1	.1		10/07/2021	10/11/2021	WG178295	
Lead, Total	10	mg/L	.00348			.001	.001	2	10/07/2021	10/11/2021	WG178295	
Magnesium, Total	10	mg/L	91.1			.5	.5		10/07/2021	10/11/2021	WG178295	
Manganese, Total	10	mg/L	.98			.001	.001		10/07/2021	10/11/2021	WG178295	
Nickel, Total	10	mg/L	.168			.001	.001	2.5	10/07/2021	10/11/2021	WG178295	
Phosphorus, Total	10	mg/L	6			1	1		10/07/2021	10/11/2021	WG178295	
Potassium, Total	10	mg/L	476			1	1		10/07/2021	10/11/2021	WG178295	
Selenium, Total	10	mg/L	<.005	U		.005	.005		10/07/2021	10/11/2021	WG178295	
Silver, Total	10	mg/L	<.0004	U		.0004	.0004	1	10/07/2021	10/11/2021	WG178295	
Sodium, Total	10	mg/L	1360			1	1		10/07/2021	10/11/2021	WG178295	
Thallium, Total	10	mg/L	<.00075	U		.00075	.00075		10/07/2021	10/11/2021	WG178295	
Tin, Total	10	mg/L	.0121	J		.005	.005		10/07/2021	10/11/2021	WG178295	
Vanadium, Total	10	mg/L	.0756			.00075	.00075		10/07/2021	10/11/2021	WG178295	
Zinc, Total	10	mg/L	.458			.005	.005	5	10/07/2021	10/11/2021	WG178295	
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		10/11/2021	10/13/2021	WG178380	

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 10/21/2021
 Report Group: CHLS-P_102021

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211013P**
 SDG/Lab Sample ID: **16420 / L77698-2**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/13/2021**
 LoginDate: **10/13/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.799		.0501	.0501		10/14/2021	10/15/2021	WG178424
Antimony, Total	10	mg/L	.0255		.00301	.00301		10/14/2021	10/15/2021	WG178424
Arsenic, Total	10	mg/L	.22		.000501	.000501	1	10/14/2021	10/15/2021	WG178424
Barium, Total	10	mg/L	.132		.00501	.00501		10/14/2021	10/15/2021	WG178424
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/14/2021	10/15/2021	WG178424
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	10/14/2021	10/15/2021	WG178424
Calcium, Total	10	mg/L	74.9		.501	.501		10/14/2021	10/15/2021	WG178424
Chromium, Total	10	mg/L	.123		.002	.002	2.75	10/14/2021	10/15/2021	WG178424
Cobalt, Total	10	mg/L	.031		.000501	.000501		10/14/2021	10/15/2021	WG178424
Copper, Total	10	mg/L	.0136		.002	.002	3	10/14/2021	10/15/2021	WG178424
Iron, Total	10	mg/L	7.4		.1	.1		10/14/2021	10/15/2021	WG178424
Lead, Total	10	mg/L	.00291		.001	.001	2	10/14/2021	10/15/2021	WG178424
Magnesium, Total	10	mg/L	81.5		.501	.501		10/14/2021	10/15/2021	WG178424
Manganese, Total	10	mg/L	.581		.001	.001		10/14/2021	10/15/2021	WG178424
Nickel, Total	10	mg/L	.146		.001	.001	2.5	10/14/2021	10/15/2021	WG178424
Phosphorus, Total	10	mg/L	4.61		1	1		10/14/2021	10/15/2021	WG178424
Potassium, Total	10	mg/L	445		1	1		10/14/2021	10/15/2021	WG178424
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		10/14/2021	10/15/2021	WG178424
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	10/14/2021	10/15/2021	WG178424
Sodium, Total	10	mg/L	1220		1	1		10/14/2021	10/15/2021	WG178424
Thallium, Total	10	mg/L	<.000752	U	.000752	.000752		10/14/2021	10/15/2021	WG178424
Tin, Total	10	mg/L	.0106		.00501	.00501		10/14/2021	10/15/2021	WG178424
Vanadium, Total	10	mg/L	.068		.000752	.000752		10/14/2021	10/15/2021	WG178424
Zinc, Total	10	mg/L	.342		.00501	.00501	5	10/14/2021	10/15/2021	WG178424
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/14/2021	10/15/2021	WG178450

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 10/28/2021
 Report Group: CHLS-P_102821

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211021P**
 SDG/Lab Sample ID: **16444 / L77911-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/21/2021**
 LoginDate: **10/21/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals			MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q							
Aluminum, Total	10	mg/L	.604			.0498	.0498		10/22/2021	10/26/2021	WG178591
Antimony, Total	10	mg/L	.0213			.00299	.00299		10/22/2021	10/26/2021	WG178591
Arsenic, Total	10	mg/L	.214			.000498	.000498	1	10/22/2021	10/26/2021	WG178591
Barium, Total	10	mg/L	.109			.00498	.00498		10/22/2021	10/26/2021	WG178591
Beryllium, Total	10	mg/L	<.000996	U		.000996	.000996		10/22/2021	10/26/2021	WG178591
Cadmium, Total	10	mg/L	<.000498	U		.000498	.000498	0.5	10/22/2021	10/26/2021	WG178591
Calcium, Total	10	mg/L	69.6			.498	.498		10/22/2021	10/26/2021	WG178591
Chromium, Total	10	mg/L	.121			.00199	.00199	2.75	10/22/2021	10/26/2021	WG178591
Cobalt, Total	10	mg/L	.0303			.000498	.000498		10/22/2021	10/26/2021	WG178591
Copper, Total	10	mg/L	.00874			.00199	.00199	3	10/22/2021	10/26/2021	WG178591
Iron, Total	10	mg/L	6.71			.0996	.0996		10/22/2021	10/26/2021	WG178591
Lead, Total	10	mg/L	.00241			.000996	.000996	2	10/22/2021	10/26/2021	WG178591
Magnesium, Total	10	mg/L	80.4			.498	.498		10/22/2021	10/26/2021	WG178591
Manganese, Total	10	mg/L	.545			.000996	.000996		10/22/2021	10/26/2021	WG178591
Nickel, Total	10	mg/L	.15			.000996	.000996	2.5	10/22/2021	10/26/2021	WG178591
Phosphorus, Total	10	mg/L	3.03			.996	.996		10/22/2021	10/26/2021	WG178591
Potassium, Total	10	mg/L	435			.996	.996		10/22/2021	10/26/2021	WG178591
Selenium, Total	10	mg/L	<.00498	U		.00498	.00498		10/22/2021	10/26/2021	WG178591
Silver, Total	10	mg/L	<.000399	U		.000399	.000399	1	10/22/2021	10/26/2021	WG178591
Sodium, Total	10	mg/L	1210			.996	.996		10/22/2021	10/26/2021	WG178591
Thallium, Total	10	mg/L	<.000747	U		.000747	.000747		10/22/2021	10/26/2021	WG178591
Tin, Total	10	mg/L	.0104			.00498	.00498		10/22/2021	10/26/2021	WG178591
Vanadium, Total	10	mg/L	.0654			.000747	.000747		10/22/2021	10/26/2021	WG178591
Zinc, Total	10	mg/L	.311			.00498	.00498	5	10/22/2021	10/26/2021	WG178591
Mercury, Total	4	mg/L	<.0002	U		.0002	.0002		10/25/2021	10/26/2021	WG178621

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 11/05/2021
 Report Group: CHLS-P_110221

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211026P**
 SDG/Lab Sample ID: **16486 / L77922-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **10/26/2021**
 LoginDate: **10/26/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.773		.05	.05		10/27/2021	11/01/2021	WG178676
Antimony, Total	10	mg/L	.0185		.003	.003		10/27/2021	11/01/2021	WG178676
Arsenic, Total	10	mg/L	.178		.0005	.0005	1	10/27/2021	11/01/2021	WG178676
Barium, Total	10	mg/L	.119		.005	.005		10/27/2021	11/01/2021	WG178676
Beryllium, Total	10	mg/L	<.001	U	.001	.001		10/27/2021	11/01/2021	WG178676
Cadmium, Total	10	mg/L	.000632		.0005	.0005	0.5	10/27/2021	11/01/2021	WG178676
Calcium, Total	10	mg/L	74.5		.5	.5		10/27/2021	11/01/2021	WG178676
Chromium, Total	10	mg/L	.106		.002	.002	2.75	10/27/2021	11/01/2021	WG178676
Cobalt, Total	10	mg/L	.0254		.0005	.0005		10/27/2021	11/01/2021	WG178676
Copper, Total	10	mg/L	.0117		.002	.002	3	10/27/2021	11/01/2021	WG178676
Iron, Total	10	mg/L	6.17		.1	.1		10/27/2021	11/01/2021	WG178676
Lead, Total	10	mg/L	.00239		.001	.001	2	10/27/2021	11/01/2021	WG178676
Magnesium, Total	10	mg/L	71		.5	.5		10/27/2021	11/01/2021	WG178676
Manganese, Total	10	mg/L	.662		.001	.001		10/27/2021	11/01/2021	WG178676
Nickel, Total	10	mg/L	.126		.001	.001	2.5	10/27/2021	11/01/2021	WG178676
Phosphorus, Total	10	mg/L	2.6		1	1		10/27/2021	11/01/2021	WG178676
Potassium, Total	10	mg/L	381		1	1		10/27/2021	11/01/2021	WG178676
Selenium, Total	10	mg/L	<.005	U	.005	.005		10/27/2021	11/01/2021	WG178676
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	10/27/2021	11/01/2021	WG178676
Sodium, Total	10	mg/L	1020		1	1		10/27/2021	11/01/2021	WG178676
Thallium, Total	10	mg/L	<.00075	U	.00075	.00075		10/27/2021	11/01/2021	WG178676
Tin, Total	10	mg/L	.00986		.005	.005		10/27/2021	11/01/2021	WG178676
Vanadium, Total	10	mg/L	.0522		.00075	.00075		10/27/2021	11/01/2021	WG178676
Zinc, Total	10	mg/L	.3		.005	.005	5	10/27/2021	11/01/2021	WG178676
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		10/28/2021	10/29/2021	WG178737

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52		
Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	10/1/21 @ 13:56
Sample Count	Interval Time (sec)	Bump Test Date
14260	60	10/1/21 @ 13:57
H2S Readings		
Date	Daily Max	Daily Average
10/1/2021	0	0
10/2/2021	0	0
10/3/2021	58	0.399
10/4/2021	0	0
10/5/2021	0	0
10/6/2021	0	0
10/7/2021	0	0
10/8/2021	0	0
10/9/2021	0	0
10/10/2021	0	0
10/11/2021	0	0

KING COUNTY SOLID WASTE DIVISION
 LEACHATE HAULING REPORT
 TANKER LOADS

MONTH: OCTOBER
 YEAR: 2021

DATE	DUVALL				VASHON				HOBART		OTHER		REMARKS		
	BRIGHT		C.H.		SPOK.		C.H.		C.H.		C.H.				
LOAD	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						1.00									
31								2.00							
TOTAL	0	0.00	0	0.00	0	7000.00	0	14000.00	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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

December 9, 2021

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of November 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 11/4/21, 11/9/21, 11/16/21, 11/23/21, and 11/30/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 11/1/21-11/9/21)
- Leachate Hauling Report (for November)

The following exceedances occurred during the month of November:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	11/4/21	11/15/21	11/15/21 @ 07:04
Arsenic Loading	11/9/21	11/23/21	11/23/21 @ 09:56
Arsenic Loading	11/16/21	12/3/21	12/3/21 @ 15:25
Arsenic Loading	11/23/21	12/7/21	12/7/21 @ 07:38
Arsenic Loading	11/30/21	12/7/21	12/7/21 @ 07:38

All other results met permit-specified limits. Per KCIW guidance, details regarding November's arsenic loading exceedances are included in the appended 14-day report.

Please contact me directly if you have any questions. I can be reached at (206) 263-3224, on my cell phone at (206) 396-9071, or by e-mail at nina.wester@kingcounty.gov.

Enclosures

 cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
 Theresa Thurlow, P.E., Section Manager, SWD

Biniam Zelelow
November 10, 2021
Page 2

Jamey Barker, P.E., Engineer Supervisor, SWD
Jennifer Keune, Environmental Compliance Coordinator, SWD
Dan Swope, Engineer III, SWD
Natalya Usova, Engineer II, SWD



King County

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: November 2021

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:KCW@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*	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													
3													
4	C	8.42	0.062	0.5267	<0.0005	0.0021	0.0434	0.3687	0.00939	0.0798	<0.1 ppm	1,018,600	
5												1,243,000	
6												1,311,100	
7												1,321,100	
8												1,022,500	
9	C	8.38	0.0483	0.4238	<0.0005	0.0022	0.0332	0.2913	0.00839	0.0736	<0.1 ppm	1,052,000	
10												964,700	
11												1,603,700	
12												1,538,700	
13												1,328,100	
14												1,599,600	
15												1,694,600	
16	C	8.19	0.0297	0.3426	<0.0005	0.0029	0.0208	0.2399	0.00849	0.0979	<0.1 ppm	1,383,100	
17												1,568,200	
18												1,582,800	
19												1,368,700	
20												889,800	
21												1,042,000	
22												866,900	
23	C	6.65	0.0345	0.2749	<0.0005	0.0020	0.0229	0.1825	0.00791	0.0630	<0.1 ppm	955,400	
24												965,000	
25												376,500	
26												902,900	
27												963,600	
28												931,700	
29												977,100	
30	C	7.84	0.0392	0.3293	<0.0005	0.0021	0.0289	0.2428	0.00865	0.0727	<0.1 ppm	1,007,400	
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.

DocuSigned by:

Dec 9, 2021

Signature of Principal Executive or Authorized Agent

Date

Monthly Min pH
Monthly Max pH

6.65
8.42

11/23/21
11/4/21

Total Monthly Flow (gallons)
Maximum Daily Flow

33,804,400
1,694,600

11/15/21



PLEASE CIRCLE ALL PERMIT VIOLATIONS
Industrial Waste Program Monthly Self-Monitoring Report
King County

Due Date: Monthly report is due by the 15th each month.
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: **November 2021**

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	0.00121	0.01028	<0.0001	0.00042	0.0467	0.397	<0.0004	0.0017	0.134	1.138	
5												
6												
7												
8												
9	C	0.001	0.00877	<0.0001	0.00044	0.0357	0.313	<0.0004	0.0018	0.119	1.044	
10												
11												
12												
13												
14												
15												
16	C	<0.00099	0.00571	<0.0001	0.00058	0.0234	0.270	<0.0004	0.0023	0.0704	0.812	
17												
18												
19												
20												
21												
22												
23	C	<0.001	0.00398	<0.0001	0.00040	0.0242	0.193	<0.0004	0.0016	0.0699	0.557	
24												
25												
26												
27												
28												
29												
30	C	<0.00099	0.00419	<0.0001	0.00042	0.0309	0.260	<0.0004	0.0017	0.0749	0.629	

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.

DocuSigned by:

Signature of Principal Executive or Authorized Agent

Dec 9, 2021

Date

31																			
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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: November 2021 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 Date (circle)	H ₂ S – Air MAX	H ₂ S – Air Average	Active Discharge during MAX H ₂ S reading? (Y/N)	Notes
1	0	0	Y	
2	0	0	Y	
3	0	0	Y	
4	0	0	Y	
5	0	0	Y	
6	0	0	Y	
7	0	0	Y	
8	0	0	Y	
9	0	0	Y	
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H₂S – Air MAX
- H₂S – Air Average
- Monthly MAX
- Monthly Average

Parameter	H ₂ S – Air
Monitoring Period	November 1-9, 2021
Limit Type	15-min average
Limit	15.0 ppm
Max Value	0
Value	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.

DocuSigned by:

A70EEC0AE02F44A...
 Signature of Principal Executive or Authorized Agent
 Date Dec 9, 2021

26				
27				
28				
29				
30				
31				

Monthly MAX

0

11/1/21-11/9/21

Monthly AVG

0

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: 11/22/2021
 Report Group: CHLS-P_111221

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211104P	CollectDate: 11/04/2021
SDG/Lab Sample ID: 16451 / L78063-1	LoginDate: 11/05/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.66		.0495	.0495		11/05/2021	11/08/2021	WG178859
Antimony, Total	10	mg/L	.00796		.00297	.00297		11/05/2021	11/08/2021	WG178859
Arsenic, Total	10	mg/L	.062		.000495	.000495	1	11/05/2021	11/08/2021	WG178859
Barium, Total	10	mg/L	.0655		.00495	.00495		11/05/2021	11/08/2021	WG178859
Beryllium, Total	10	mg/L	<.00099	U	.00099	.00099		11/05/2021	11/08/2021	WG178859
Cadmium, Total	10	mg/L	<.000495	U	.000495	.000495	0.5	11/05/2021	11/08/2021	WG178859
Calcium, Total	10	mg/L	71.8		.495	.495		11/05/2021	11/08/2021	WG178859
Chromium, Total	10	mg/L	.0434		.00198	.00198	2.75	11/05/2021	11/08/2021	WG178859
Cobalt, Total	10	mg/L	.00987		.000495	.000495		11/05/2021	11/08/2021	WG178859
Copper, Total	10	mg/L	.00939		.00198	.00198	3	11/05/2021	11/08/2021	WG178859
Iron, Total	10	mg/L	3.5		.099	.099		11/05/2021	11/08/2021	WG178859
Lead, Total	10	mg/L	.00121		.00099	.00099	2	11/05/2021	11/08/2021	WG178859
Magnesium, Total	10	mg/L	32.7		.495	.495		11/05/2021	11/08/2021	WG178859
Manganese, Total	10	mg/L	.997		.00099	.00099		11/05/2021	11/08/2021	WG178859

Client Sample ID: LEPS211104P	CollectDate: 11/04/2021
SDG/Lab Sample ID: 16451 / L78063-1	LoginDate: 11/05/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Nickel, Total	10	mg/L	.0467		.00099	.00099	2.5	11/05/2021	11/08/2021	WG178859
Phosphorus, Total	10	mg/L	1.2		.99	.99		11/05/2021	11/08/2021	WG178859
Potassium, Total	10	mg/L	131		.99	.99		11/05/2021	11/08/2021	WG178859
Selenium, Total	10	mg/L	<.00495	U	.00495	.00495		11/05/2021	11/08/2021	WG178859
Silver, Total	10	mg/L	<.000396	U	.000396	.000396	1	11/05/2021	11/08/2021	WG178859
Sodium, Total	10	mg/L	341	D	.99	.99		11/05/2021	11/08/2021	WG178859
Thallium, Total	10	mg/L	<.000743	U	.000743	.000743		11/05/2021	11/08/2021	WG178859
Tin, Total	10	mg/L	<.00495	U	.00495	.00495		11/05/2021	11/08/2021	WG178859
Vanadium, Total	10	mg/L	.0208		.000743	.000743		11/05/2021	11/08/2021	WG178859
Zinc, Total	10	mg/L	.134		.00495	.00495	5	11/05/2021	11/08/2021	WG178859
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		11/08/2021	11/10/2021	WG178908

Target Parameter Count for SDG: 50

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 11/22/2021
 Report Group: CHLS-P_111221

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211109P	CollectDate: 11/09/2021
SDG/Lab Sample ID: 16390 / L78141-1	LoginDate: 11/10/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.701		.0498	.0498		11/12/2021	11/15/2021	WG178967
Antimony, Total	10	mg/L	.00551		.00299	.00299		11/12/2021	11/15/2021	WG178967
Arsenic, Total	10	mg/L	.0483		.000498	.000498	1	11/12/2021	11/15/2021	WG178967
Barium, Total	10	mg/L	.0655		.00498	.00498		11/12/2021	11/15/2021	WG178967
Beryllium, Total	10	mg/L	<.000996	U	.000996	.000996		11/12/2021	11/15/2021	WG178967
Cadmium, Total	10	mg/L	<.000498	U	.000498	.000498	0.5	11/12/2021	11/15/2021	WG178967
Calcium, Total	10	mg/L	75.1		.498	.498		11/12/2021	11/15/2021	WG178967
Chromium, Total	10	mg/L	.0332		.00199	.00199	2.75	11/12/2021	11/15/2021	WG178967
Cobalt, Total	10	mg/L	.00772		.000498	.000498		11/12/2021	11/15/2021	WG178967
Copper, Total	10	mg/L	.00839		.00199	.00199	3	11/12/2021	11/15/2021	WG178967
Iron, Total	10	mg/L	3.21		.0996	.0996		11/12/2021	11/15/2021	WG178967
Lead, Total	10	mg/L	.001		.000996	.000996	2	11/12/2021	11/15/2021	WG178967
Magnesium, Total	10	mg/L	29.1		.498	.498		11/12/2021	11/15/2021	WG178967
Manganese, Total	10	mg/L	.892		.000996	.000996		11/12/2021	11/15/2021	WG178967
Nickel, Total	10	mg/L	.0357		.000996	.000996	2.5	11/12/2021	11/15/2021	WG178967
Phosphorus, Total	10	mg/L	1.37		.996	.996		11/12/2021	11/15/2021	WG178967
Potassium, Total	10	mg/L	109		.996	.996		11/12/2021	11/15/2021	WG178967
Selenium, Total	10	mg/L	<.00498	U	.00498	.00498		11/12/2021	11/15/2021	WG178967
Silver, Total	10	mg/L	<.000398	U	.000398	.000398	1	11/12/2021	11/15/2021	WG178967
Sodium, Total	10	mg/L	289		.996	.996		11/12/2021	11/15/2021	WG178967
Thallium, Total	10	mg/L	<.000747	U	.000747	.000747		11/12/2021	11/15/2021	WG178967
Tin, Total	10	mg/L	<.00498	U	.00498	.00498		11/12/2021	11/15/2021	WG178967
Vanadium, Total	10	mg/L	.0169		.000747	.000747		11/12/2021	11/15/2021	WG178967
Zinc, Total	10	mg/L	.119		.00498	.00498	5	11/12/2021	11/15/2021	WG178967
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		11/12/2021	11/12/2021	WG178970

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/01/2021
 Report Group: CHLS-P_112421

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211116P	CollectDate: 11/16/2021
SDG/Lab Sample ID: 16354 / L78151-1	LoginDate: 11/17/2021
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	.79			.0499	.0499		11/18/2021	11/19/2021	WG179072
Antimony, Total	10	mg/L	.00348			.003	.003		11/18/2021	11/19/2021	WG179072
Arsenic, Total	10	mg/L	.0297			.000499	.000499	1	11/18/2021	11/19/2021	WG179072
Barium, Total	10	mg/L	.048			.00499	.00499		11/18/2021	11/19/2021	WG179072
Beryllium, Total	10	mg/L	<.000999	U		.000999	.000999		11/18/2021	11/19/2021	WG179072
Cadmium, Total	10	mg/L	<.000499	U		.000499	.000499	0.5	11/18/2021	11/19/2021	WG179072
Calcium, Total	10	mg/L	53.4			.499	.499		11/18/2021	11/19/2021	WG179072
Chromium, Total	10	mg/L	.0208	D		.002	.002	2.75	11/18/2021	11/23/2021	WG179072
Cobalt, Total	10	mg/L	.00507			.000499	.000499		11/18/2021	11/19/2021	WG179072
Copper, Total	10	mg/L	.00849			.002	.002	3	11/18/2021	11/19/2021	WG179072
Iron, Total	10	mg/L	2.75			.0999	.0999		11/18/2021	11/19/2021	WG179072
Lead, Total	10	mg/L	<.000999	U		.000999	.000999	2	11/18/2021	11/19/2021	WG179072
Magnesium, Total	10	mg/L	18.4			.499	.499		11/18/2021	11/19/2021	WG179072
Manganese, Total	10	mg/L	.621			.000999	.000999		11/18/2021	11/19/2021	WG179072
Nickel, Total	10	mg/L	.0234			.000999	.000999	2.5	11/18/2021	11/19/2021	WG179072
Phosphorus, Total	10	mg/L	<.999	U		.999	.999		11/18/2021	11/19/2021	WG179072
Potassium, Total	10	mg/L	68.1			.999	.999		11/18/2021	11/19/2021	WG179072
Selenium, Total	10	mg/L	<.00499	U		.00499	.00499		11/18/2021	11/19/2021	WG179072
Silver, Total	10	mg/L	<.000399	U		.000399	.000399	1	11/18/2021	11/19/2021	WG179072
Sodium, Total	10	mg/L	175			.999	.999		11/18/2021	11/19/2021	WG179072
Thallium, Total	10	mg/L	<.000749	U		.000749	.000749		11/18/2021	11/19/2021	WG179072
Tin, Total	10	mg/L	<.00499	U		.00499	.00499		11/18/2021	11/19/2021	WG179072
Vanadium, Total	10	mg/L	.0107			.000749	.000749		11/18/2021	11/19/2021	WG179072
Zinc, Total	10	mg/L	.0704			.00499	.00499	5	11/18/2021	11/19/2021	WG179072
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		11/19/2021	11/22/2021	WG179111

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/06/2021
 Report Group: CHLS-P_120321

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211123P	CollectDate: 11/23/2021
SDG/Lab Sample ID: 16460 / L78188-1	LoginDate: 11/24/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.891		.0501	.0501		11/29/2021	11/30/2021	WG179195
Antimony, Total	10	mg/L	.00378		.00301	.00301		11/29/2021	11/30/2021	WG179195
Arsenic, Total	10	mg/L	.0345		.000501	.000501	1	11/29/2021	11/30/2021	WG179195
Barium, Total	10	mg/L	.0498		.00501	.00501		11/29/2021	11/30/2021	WG179195
Beryllium, Total	10	mg/L	<.001	U	.001	.001		11/29/2021	11/30/2021	WG179195
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	11/29/2021	11/30/2021	WG179195
Calcium, Total	10	mg/L	48.4		.501	.501		11/29/2021	11/30/2021	WG179195
Chromium, Total	10	mg/L	.0229		.00201	.00201	2.75	11/29/2021	11/30/2021	WG179195
Cobalt, Total	10	mg/L	.00566		.000501	.000501		11/29/2021	11/30/2021	WG179195
Copper, Total	10	mg/L	.00791		.00201	.00201	3	11/29/2021	11/30/2021	WG179195
Iron, Total	10	mg/L	2.36		.1	.1		11/29/2021	11/30/2021	WG179195
Lead, Total	10	mg/L	<.001	U	.001	.001	2	11/29/2021	11/30/2021	WG179195
Magnesium, Total	10	mg/L	18.6		.501	.501		11/29/2021	11/30/2021	WG179195
Manganese, Total	10	mg/L	.479		.001	.001		11/29/2021	11/30/2021	WG179195
Nickel, Total	10	mg/L	.0242		.001	.001	2.5	11/29/2021	11/30/2021	WG179195
Phosphorus, Total	10	mg/L	1.07		1	1		11/29/2021	11/30/2021	WG179195
Potassium, Total	10	mg/L	70.8		1	1		11/29/2021	11/30/2021	WG179195
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		11/29/2021	11/30/2021	WG179195
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	11/29/2021	11/30/2021	WG179195
Sodium, Total	10	mg/L	188		1	1		11/29/2021	11/30/2021	WG179195
Thallium, Total	10	mg/L	<.000752	U	.000752	.000752		11/29/2021	11/30/2021	WG179195
Tin, Total	10	mg/L	<.00501	U	.00501	.00501		11/29/2021	11/30/2021	WG179195
Vanadium, Total	10	mg/L	.011		.000752	.000752		11/29/2021	11/30/2021	WG179195
Zinc, Total	10	mg/L	.0699		.00501	.00501	5	11/29/2021	11/30/2021	WG179195
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/01/2021	12/03/2021	WG179255

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/06/2021
 Report Group: CHLS-P_120321

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211130P	CollectDate: 11/30/2021
SDG/Lab Sample ID: 16516 / L78189-1	LoginDate: 12/01/2021
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	.834			.0498	.0498		12/02/2021	12/03/2021	WG179262
Antimony, Total	10	mg/L	.00456			.00299	.00299		12/02/2021	12/03/2021	WG179262
Arsenic, Total	10	mg/L	.0392			.000498	.000498	1	12/02/2021	12/03/2021	WG179262
Barium, Total	10	mg/L	.0604			.00498	.00498		12/02/2021	12/03/2021	WG179262
Beryllium, Total	10	mg/L	<.000997	U		.000997	.000997		12/02/2021	12/03/2021	WG179262
Cadmium, Total	10	mg/L	<.000498	U		.000498	.000498	0.5	12/02/2021	12/03/2021	WG179262
Calcium, Total	10	mg/L	55.1			.498	.498		12/02/2021	12/03/2021	WG179262
Chromium, Total	10	mg/L	.0289			.00199	.00199	2.75	12/02/2021	12/03/2021	WG179262
Cobalt, Total	10	mg/L	.00684			.000498	.000498		12/02/2021	12/03/2021	WG179262
Copper, Total	10	mg/L	.00865			.00199	.00199	3	12/02/2021	12/03/2021	WG179262
Iron, Total	10	mg/L	2.67			.0997	.0997		12/02/2021	12/03/2021	WG179262
Lead, Total	10	mg/L	<.000997	U		.000997	.000997	2	12/02/2021	12/03/2021	WG179262
Magnesium, Total	10	mg/L	21.9			.498	.498		12/02/2021	12/03/2021	WG179262
Manganese, Total	10	mg/L	.606			.000997	.000997		12/02/2021	12/03/2021	WG179262

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Client Sample ID: LEPS211130P	CollectDate: 11/30/2021
SDG/Lab Sample ID: 16516 / L78189-1	LoginDate: 12/01/2021
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							
Nickel, Total	10	mg/L	.0309			.000997	.000997	2.5	12/02/2021	12/03/2021	WG179262
Phosphorus, Total	10	mg/L	1.29			.997	.997		12/02/2021	12/03/2021	WG179262
Potassium, Total	10	mg/L	84.2			.997	.997		12/02/2021	12/03/2021	WG179262
Selenium, Total	10	mg/L	<.00498	U		.00498	.00498		12/02/2021	12/03/2021	WG179262
Silver, Total	10	mg/L	<.000399	U		.000399	.000399	1	12/02/2021	12/03/2021	WG179262
Sodium, Total	10	mg/L	235			.997	.997		12/02/2021	12/03/2021	WG179262
Thallium, Total	10	mg/L	<.000747	U		.000747	.000747		12/02/2021	12/03/2021	WG179262
Tin, Total	10	mg/L	<.00498	U		.00498	.00498		12/02/2021	12/03/2021	WG179262
Vanadium, Total	10	mg/L	.0123			.000747	.000747		12/02/2021	12/03/2021	WG179262
Zinc, Total	10	mg/L	.0749			.00498	.00498	5	12/02/2021	12/03/2021	WG179262
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		12/02/2021	12/03/2021	WG179284

Target Parameter Count for SDG: 50

HYDROGEN SULFIDE GAS AT MANHOLE R10-52		
Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	10/1/2021 @ 1:56:32 PM
Sample Count	Interval Time (sec)	Bump Test Date
11525	60	10/29/2021 @ 10:18:36 AM
H2S Readings		
Date	Daily Max	Daily Average
11/1/2021	0.0	0.0
11/2/2021	0.0	0.0
11/3/2021	0.0	0.0
11/4/2021	0.0	0.0
11/5/2021	0.0	0.0
11/6/2021	0.0	0.0
11/7/2021	0.0	0.0
11/8/2021	0.0	0.0
11/9/2021	0.0	0.0

KING COUNTY SOLID WASTE DIVISION
LEACHATE HAULING REPORT
TANKER LOADS

MONTH: NOVEMBER
 YEAR: 2021

DATE	DUVALL						VASHON				HOBART		OTHER		REMARKS
	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		
	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1															
2															
3															
4															
5									2.00						
6							1.00		1.00						
7															
8									2.00						
9									2.00						
10									2.00						
11									2.00						
12									2.00						
13					1.00				1.00						
14									2.00						
15		1.00							1.00						
16									2.00						
17									2.00						
18		2.00							1.00						
19									2.00						
20									2.00						
21									2.00						
22															
23				1.00							1.00				
24															
25															
26							1.00		1.00						
27															
28															
29							1.00		1.00						
30									2.00						
31															
TOTAL	0 21000.00		0 14000.00		0 21000.00		0 224000.00		0 7000.00		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 5701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

January 13, 2022

TO: Biniam Zelelow, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Nina Wester, Environmental Scientist II, 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 (SMR) for Cedar Hills (Permit Number 7842-03) for the month of December 2021. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 12/7/21, 12/14/21, 12/21/21, and 12/29/21)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 12/7/21-12/15/21; 12/20/21-12/31/21)
- Leachate Hauling Report (for December)

The following exceedances occurred during the month of December:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	12/7/21	12/20/21	12/20/21 @ 12:38
Arsenic Loading	12/21/21	12/29/21	12/29/21 @ 12:21

All other results met permit-specified limits. Per KCIW guidance, details regarding December's arsenic loading exceedances are included in the appended 14-day report.

Please contact me directly if you have any questions. I can be reached at (206) 263-3224, or by e-mail at nina.wester@kingcounty.gov.

Enclosures

 cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD)
 Theresa Thurlow, P.E., Section Manager, SWD
 Jennifer Keune, Interim Supervisor, SWD
 Dan Swope, Engineer III, SWD
 Natalya Usova, Engineer 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

Company Name: **King County SWD - Cedar Hills Landfill**

Sample Site No. **A90021**

Permit No.: **7842-03**

Please Specify Month & Year: **Month: December 2021**

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													
3													
4													
5													
6													
7	C	8.27	0.0385	0.3184	<0.0005	0.0021	0.0279	0.2307	0.00794	0.0657	<0.1	991,500	
8												921,500	
9												981,900	
10												991,700	
11												918,500	
12												949,600	
13												577,700	
14	C	8.32	0.0407	0.2182	<0.0005	0.0013	0.0294	0.1576	0.00555	0.0298	<0.1	642,800	
15												984,700	
16												1,036,100	
17												816,900	
18												589,400	
19												298,100	
20												954,400	
21	C	8.37	0.0481	0.3922	<0.0005	0.0020	0.0326	0.2658	0.00889	0.0725	<0.1	977,700	
22												745,100	
23												1,033,000	
24												904,100	
25												336,500	
26												925,200	
27												948,900	
28												1,064,600	
29	C	8.21	0.0497	0.1825	<0.0005	0.0009	0.0374	0.1373	0.00517	0.0190	<0.1	440,200	
30												637,200	
31												517,100	

Monthly Min pH: 8.21
Monthly Max pH: 8.37

12/29/21
12/21/21

Total Monthly Flow (gallons): 25,459,000
Maximum Daily Flow: 1,064,600

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

12/28/21

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.

DocuSigned by:

Signature of Principal Executive or Authorized Agent
Date: Jan 13, 2022



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

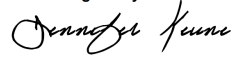
Please Specify Month & Year: Month: December 2021

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	<0.001	0.00413	<0.0001	0.00041	0.0294	0.243	<0.0004	0.0017	0.07	0.579	
8												
9												
10												
11												
12												
13												
14	C	<0.001	0.00268	<0.0001	0.00027	0.0308	0.155	<0.0004	0.0011	0.0601	0.322	
15												
16												
17												
18												
19												
20												
21	C	0.00111	0.00905	<0.0001	0.00041	0.0375	0.306	<0.0004	0.0016	0.0952	0.776	
22												
23												
24												
25												
26												
27												
28												
29	C	<0.001	0.00184	<0.0001	0.00018	0.0379	0.139	<0.0004	0.0007	0.0906	0.333	
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 of Principal Executive or Authorized Agent

Jan 13, 2022
 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

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: December 2021

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			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Monthly MAX	0		
Monthly AVG	0		

12/7/21-12/15/21: 12/20/21-12/31/21

Parameter	H ₂ S – Air
Monitoring Period	December 7-15 2021; December 20-31, 2021
Limit Type	15-min average
Limit	15.0 ppm
Max Value	0
Value	N/A

Notes

Per KCIW guidance, the following values are reported for administrative purposes, only:

- H₂S – Air MAX
- H₂S – Air Average
- Monthly MAX
- Monthly Average

Upon discovery that SWD inadvertently omitted a bump test prior to the 12/7/21 deployment, the Eagle 2 Gas Meter was bump tested and redeployed on 12/20/21 to ensure representative, accurate data.

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.

DocuSigned by:

Signature of Principal Executive or Authorized Agent

Jan 13, 2022

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: 12/17/2021
 Report Group: CHLS-P_121421

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211207P**
 SDG/Lab Sample ID: **16523 / L78257-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/07/2021**
 LoginDate: **12/08/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals			MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q							
Aluminum, Total	10	mg/L	.861	D	.0501	.0501		12/09/2021	12/10/2021	WG179368	
Antimony, Total	10	mg/L	.00445		.003	.003		12/09/2021	12/10/2021	WG179368	
Arsenic, Total	10	mg/L	.0385		.000501	.000501	1	12/09/2021	12/10/2021	WG179368	
Barium, Total	10	mg/L	.0572		.00501	.00501		12/09/2021	12/10/2021	WG179368	
Beryllium, Total	10	mg/L	<.001	U	.001	.001		12/09/2021	12/10/2021	WG179368	
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	12/09/2021	12/10/2021	WG179368	
Calcium, Total	10	mg/L	45.9		.501	.501		12/09/2021	12/10/2021	WG179368	
Chromium, Total	10	mg/L	.0279		.002	.002	2.75	12/09/2021	12/10/2021	WG179368	
Cobalt, Total	10	mg/L	.0068		.000501	.000501		12/09/2021	12/10/2021	WG179368	
Copper, Total	10	mg/L	.00794		.002	.002	3	12/09/2021	12/10/2021	WG179368	
Iron, Total	10	mg/L	2.59		.1	.1		12/09/2021	12/10/2021	WG179368	
Lead, Total	10	mg/L	<.001	U	.001	.001	2	12/09/2021	12/10/2021	WG179368	
Magnesium, Total	10	mg/L	20.7		.501	.501		12/09/2021	12/10/2021	WG179368	
Manganese, Total	10	mg/L	.51		.001	.001		12/09/2021	12/10/2021	WG179368	
Nickel, Total	10	mg/L	.0294		.001	.001	2.5	12/09/2021	12/10/2021	WG179368	
Phosphorus, Total	10	mg/L	1.19		1	1		12/09/2021	12/10/2021	WG179368	
Potassium, Total	10	mg/L	81.4		1	1		12/09/2021	12/10/2021	WG179368	
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		12/09/2021	12/10/2021	WG179368	
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	12/09/2021	12/10/2021	WG179368	
Sodium, Total	10	mg/L	222		1	1		12/09/2021	12/10/2021	WG179368	
Thallium, Total	10	mg/L	<.000751	U	.000751	.000751		12/09/2021	12/10/2021	WG179368	
Tin, Total	10	mg/L	<.00501	U	.00501	.00501		12/09/2021	12/10/2021	WG179368	
Vanadium, Total	10	mg/L	.0116		.000751	.000751		12/09/2021	12/10/2021	WG179368	
Zinc, Total	10	mg/L	.07		.00501	.00501	5	12/09/2021	12/10/2021	WG179368	
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/10/2021	12/13/2021	WG179403	

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/22/2021
 Report Group: CHLS-P_122121

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: LEPS211214P	CollectDate: 12/14/2021
SDG/Lab Sample ID: 16558 / L78251-1	LoginDate: 12/15/2021
Project Name: SWD-CHLS-P Cedar Hills Leachate Permit	Matrix: LEACHATE

Constituent	Metals							Prep Date	Run Date	Run
	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit			
Aluminum, Total	10	mg/L	.546		.05	.05		12/16/2021	12/16/2021	WG179508
Antimony, Total	10	mg/L	.00462		.003	.003		12/16/2021	12/16/2021	WG179508
Arsenic, Total	10	mg/L	.0407		.0005	.0005	1	12/16/2021	12/16/2021	WG179508
Barium, Total	10	mg/L	.0568		.005	.005		12/16/2021	12/16/2021	WG179508
Beryllium, Total	10	mg/L	<.001	U	.001	.001		12/16/2021	12/16/2021	WG179508
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	12/16/2021	12/16/2021	WG179508
Calcium, Total	10	mg/L	46.7		.5	.5		12/16/2021	12/16/2021	WG179508
Chromium, Total	10	mg/L	.0294		.002	.002	2.75	12/16/2021	12/16/2021	WG179508
Cobalt, Total	10	mg/L	.00702		.0005	.0005		12/16/2021	12/16/2021	WG179508
Copper, Total	10	mg/L	.00555		.002	.002	3	12/16/2021	12/16/2021	WG179508
Iron, Total	10	mg/L	1.97		.1	.1		12/16/2021	12/16/2021	WG179508
Lead, Total	10	mg/L	<.001	U	.001	.001	2	12/16/2021	12/16/2021	WG179508
Magnesium, Total	10	mg/L	21		.5	.5		12/16/2021	12/16/2021	WG179508
Manganese, Total	10	mg/L	.506		.001	.001		12/16/2021	12/16/2021	WG179508
Nickel, Total	10	mg/L	.0308		.001	.001	2.5	12/16/2021	12/16/2021	WG179508
Phosphorus, Total	10	mg/L	1.1		1	1		12/16/2021	12/16/2021	WG179508
Potassium, Total	10	mg/L	87.9		1	1		12/16/2021	12/16/2021	WG179508
Selenium, Total	10	mg/L	<.005	U	.005	.005		12/16/2021	12/16/2021	WG179508
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	12/16/2021	12/16/2021	WG179508
Sodium, Total	10	mg/L	238		1	1		12/16/2021	12/16/2021	WG179508
Thallium, Total	10	mg/L	<.000751	U	.000751	.000751		12/16/2021	12/16/2021	WG179508
Tin, Total	10	mg/L	<.005	U	.005	.005		12/16/2021	12/16/2021	WG179508
Vanadium, Total	10	mg/L	.0113		.000751	.000751		12/16/2021	12/16/2021	WG179508
Zinc, Total	10	mg/L	.0601		.005	.005	5	12/16/2021	12/16/2021	WG179508
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		12/16/2021	12/17/2021	WG179523

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 12/28/2021
 Report Group: CHLS-P_122821

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211221P**
 SDG/Lab Sample ID: **16560 / L78262-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/21/2021**
 LoginDate: **12/22/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				MDL	RDL	Reg Limit	Prep Date	Run Date	Run
			Results	Q								
Aluminum, Total	10	mg/L	1.49			.0509	.0509		12/23/2021	12/27/2021	WG179613	
Antimony, Total	10	mg/L	.00537			.00305	.00305		12/23/2021	12/27/2021	WG179613	
Arsenic, Total	10	mg/L	.0481			.000509	.000509	1	12/23/2021	12/27/2021	WG179613	
Barium, Total	10	mg/L	.0704			.00509	.00509		12/23/2021	12/27/2021	WG179613	
Beryllium, Total	10	mg/L	<.00102	U		.00102	.00102		12/23/2021	12/27/2021	WG179613	
Cadmium, Total	10	mg/L	<.000509	U		.000509	.000509	0.5	12/23/2021	12/27/2021	WG179613	
Calcium, Total	10	mg/L	51.4			.509	.509		12/23/2021	12/27/2021	WG179613	
Chromium, Total	10	mg/L	.0326			.00203	.00203	2.75	12/23/2021	12/27/2021	WG179613	
Cobalt, Total	10	mg/L	.00846			.000509	.000509		12/23/2021	12/27/2021	WG179613	
Copper, Total	10	mg/L	.00889			.00203	.00203	3	12/23/2021	12/27/2021	WG179613	
Iron, Total	10	mg/L	3.39			.102	.102		12/23/2021	12/27/2021	WG179613	
Lead, Total	10	mg/L	.00111			.00102	.00102	2	12/23/2021	12/27/2021	WG179613	
Magnesium, Total	10	mg/L	25.7			.509	.509		12/23/2021	12/27/2021	WG179613	
Manganese, Total	10	mg/L	.6			.00102	.00102		12/23/2021	12/27/2021	WG179613	
Nickel, Total	10	mg/L	.0375			.00102	.00102	2.5	12/23/2021	12/27/2021	WG179613	
Phosphorus, Total	10	mg/L	1.54			1.02	1.02		12/23/2021	12/27/2021	WG179613	
Potassium, Total	10	mg/L	105			1.02	1.02		12/23/2021	12/27/2021	WG179613	
Selenium, Total	10	mg/L	<.00509	U		.00509	.00509		12/23/2021	12/27/2021	WG179613	
Silver, Total	10	mg/L	<.000407	U		.000407	.000407	1	12/23/2021	12/27/2021	WG179613	
Sodium, Total	10	mg/L	282			1.02	1.02		12/23/2021	12/27/2021	WG179613	
Thallium, Total	10	mg/L	<.000763	U		.000763	.000763		12/23/2021	12/27/2021	WG179613	
Tin, Total	10	mg/L	<.00509	U		.00509	.00509		12/23/2021	12/27/2021	WG179613	
Vanadium, Total	10	mg/L	.0147			.000763	.000763		12/23/2021	12/27/2021	WG179613	
Zinc, Total	10	mg/L	.0952			.00509	.00509	5	12/23/2021	12/27/2021	WG179613	
Mercury, Total	2	mg/L	<.0001	U		.0001	.0001		12/23/2021	12/23/2021	WG179617	

Target Parameter Count for SDG: 25

King County Environmental Laboratory

Client: King County Division of Solid Waste
 Date Reported: 01/05/2022
 Report Group: CHLS-P_010522

Report To: Natalya Usova
 201 S Jackson St, Suite 701
 Seattle, WA 98104-3855

Client Sample ID: **LEPS211229P**
 SDG/Lab Sample ID: **16580 / L78265-1**
 Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

CollectDate: **12/29/2021**
 LoginDate: **12/29/2021**
 Matrix: **LEACHATE**

Constituent	D.F.	Unit	Metals				Reg Limit	Prep Date	Run Date	Run
			Results	Q	MDL	RDL				
Aluminum, Total	10	mg/L	.355		.0503	.0503		12/30/2021	01/03/2022	WG179648
Antimony, Total	10	mg/L	.00558		.00302	.00302		12/30/2021	01/03/2022	WG179648
Arsenic, Total	10	mg/L	.0497		.000503	.000503	1	12/30/2021	01/03/2022	WG179648
Barium, Total	10	mg/L	.0789		.00503	.00503		12/30/2021	01/03/2022	WG179648
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		12/30/2021	01/03/2022	WG179648
Cadmium, Total	10	mg/L	<.000503	U	.000503	.000503	0.5	12/30/2021	01/03/2022	WG179648
Calcium, Total	10	mg/L	65.1		.503	.503		12/30/2021	01/03/2022	WG179648
Chromium, Total	10	mg/L	.0374		.00201	.00201	2.75	12/30/2021	01/03/2022	WG179648
Cobalt, Total	10	mg/L	.00841		.000503	.000503		12/30/2021	01/03/2022	WG179648
Copper, Total	10	mg/L	.00517		.00201	.00201	3	12/30/2021	01/03/2022	WG179648
Iron, Total	10	mg/L	2.57		.101	.101		12/30/2021	01/03/2022	WG179648
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	12/30/2021	01/03/2022	WG179648
Magnesium, Total	10	mg/L	27.9		.503	.503		12/30/2021	01/03/2022	WG179648
Manganese, Total	10	mg/L	.898		.00101	.00101		12/30/2021	01/03/2022	WG179648
Nickel, Total	10	mg/L	.0379		.00101	.00101	2.5	12/30/2021	01/03/2022	WG179648
Phosphorus, Total	10	mg/L	1.45		1.01	1.01		12/30/2021	01/03/2022	WG179648
Potassium, Total	10	mg/L	111		1.01	1.01		12/30/2021	01/03/2022	WG179648
Selenium, Total	10	mg/L	<.00503	U	.00503	.00503		12/30/2021	01/03/2022	WG179648
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	12/30/2021	01/03/2022	WG179648
Sodium, Total	10	mg/L	310		1.01	1.01		12/30/2021	01/03/2022	WG179648
Thallium, Total	10	mg/L	<.000754	U	.000754	.000754		12/30/2021	01/03/2022	WG179648
Tin, Total	10	mg/L	<.00503	U	.00503	.00503		12/30/2021	01/03/2022	WG179648
Vanadium, Total	10	mg/L	.0138		.000754	.000754		12/30/2021	01/03/2022	WG179648
Zinc, Total	10	mg/L	.0906		.00503	.00503	5	12/30/2021	01/03/2022	WG179648
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/03/2022	01/03/2022	WG179663

Target Parameter Count for SDG: 25

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	10/1/21 @ 13:56
Sample Count	Interval Time (sec)	Bump Test Date
11749	60	10/29/21 @ 10:18

H2S Readings

Date	Daily Max	Daily Average
12/7/2021	0.0	0.0000
12/8/2021	0.0	0.0000
12/9/2021	0.0	0.0000
12/10/2021	0.0	0.0000
12/11/2021	0.0	0.0000
12/12/2021	0.0	0.0000
12/13/2021	0.0	0.0000
12/14/2021	0.0	0.0000
12/15/2021	0.0	0.0000

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	10/1/21 @ 13:56
Sample Count	Interval Time (sec)	Bump Test Date
20107	60	12/15/21 @ 13:44
H2S Readings		
Date	Daily Max	Daily Average
12/20/2021	0.0	0.0000
12/21/2021	0.0	0.0000
12/22/2021	0.0	0.0000
12/23/2021	0.0	0.0000
12/24/2021	0.0	0.0000
12/25/2021	0.0	0.0000
12/26/2021	0.0	0.0000
12/27/2021	0.0	0.0000
12/28/2021	0.0	0.0000
12/29/2021	0.0	0.0000
12/30/2021	0.0	0.0000
12/31/2021	0.0	0.0000

