

Attachment H

Stormwater Reports

Washington Department of Ecology Submission Cover Letter

**WQWebSubmittal - Submittal Submission Id: 1575637 - 3/20/2017
12:51:30 PM**

Report Received Dated:

3/20/2017 12:51:30 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Jennifer Keune	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Monday March 20 2017
2016 Annual Report	2016 Annual Report - CH FINAL

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



7azBbyQ58/KGnBn+3GDt3uoHWJnoKZlowXfYCOuHb+PzwtgurpSPO3Gvggd
+rD7nb9abPbucstsMD0BiX3Rag1ZBcppn+MX0hJ/f7J48h5w=



DEPARTMENT OF
ECOLOGY
State of Washington

Water Quality Program

Permit Submittal Electronic Certification

Permittee: CEDAR HILLS LANDFILL

Permit Number: WAR000756

Site Address: 16645 228TH AVE SE
Maple Valley, WA98038

Submittal Name: 2016 Annual Report (covers 2016 calendar year)

Version: 1

Due Date: 5/15/2017

Comments:

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 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.

Jennifer Keune

3/20/2017 12:51:29 PM

Signature

Date



Industrial Stormwater General Permit Annual Report Form

Permit No. WAR-000756

Site Name: Cedar Hills Landfill

Site County: King

Use this form to submit your annual report to Ecology. This form is not protected. Use your F11 key to maneuver through the fields. Attach corrective action documentation, and/or additional sheets if necessary. All facilities must submit a signed annual report each year on or before May 15th. Retain a copy of your submitted report onsite for Ecology review.

1. Benchmarks Exceeded

This report is based on samples collected during calendar year 2016.

Did you exceed the benchmark for any parameter during the above noted calendar year (Jan 1st – Dec 31st)?

Note: If you sampled a parameter (other than pH or visible oil sheen) at a discharge point more than once during a quarter, the average of the sample results must be compared to the benchmark.

Yes - Complete Sections 2 and 3 and sign and submit the form as described in Section 4.

No - Complete Section 2, skip Section 3, and sign and submit the form as described in Section 4.

Include any additional comments here:

In general, stormwater associated with industrial activities at the Cedar Hills Landfill was effectively managed in 2016. However, benchmark exceedances resulted from two contributing factors:

- i) A vehicle rollover accident in January 2016 caused a release of diesel to a roadside ditch upstream of monitoring location GS1. Spill response activities were prompt and effective, but residual sheen lingered in the vicinity of GS1 during the first and second quarters of 2016.
- ii) A portion of the landfill was under construction in 2016. The contractor and CSGP permit holder (No. WAR303859) was responsible for temporary erosion and sediment control (TESC) within the project area. Intense rain in October 2016 overwhelmed TESC BMPs, resulting in a discharge of sediment-laden stormwater from the construction area to ISGP monitoring locations downstream.

Additionally, construction of a new stormwater treatment and flow control facility was constructed in 2016, fulfilling the Level 3 Corrective Action triggered in 2014.

2. Stormwater Problems Identified At the Facility

Instructions: Based on the best available information, briefly describe any potential or actual stormwater pollution problem(s) you identified during the previous calendar year (Jan 1st – Dec 31st).

- Sources of available information may include (but may not be limited to): SWPPP reviews, audits made by consultants or providers of technical assistance, inspection reports or other notification made by federal/state/local authorities, visual observations, and/or your facility's monthly site inspections (self-inspections).
- For each problem identified, provide the date you discovered the problem (estimate if necessary).
- Do not include problems discovered through stormwater sampling. This information is covered in Section 3.

Date Problem Discovered: 2016

Describe the Problem: Most issues identified during monthly inspections in 2016 were related to routine maintenance of BMPs and were addressed promptly and effectively. Compliance with the ISGP was complicated by discharge of turbid stormwater from a separately-permitted construction project within the landfill property. For more information, see Section 3, below.

3. Corrective Actions Planned or Taken

Instructions: Complete this section for each pollutant parameter (e.g., turbidity, copper) that exceeded a benchmark during the previous calendar year (Jan 1st – Dec 31st). The permit requires you to identify the condition triggering the need for corrective action review. To do this, indicate below which quarters had a sample result that exceeded the benchmark. If more than one sample was taken at a sample location, indicate which quarters had an average sample result that exceeded the benchmark. Note: If you exceeded the benchmark for more than one parameter (e.g., turbidity and zinc), make additional copies of Section 3 and complete one for each parameter.

Pollutant Parameter: Turbidity benchmark was exceeded during the following quarters (check all that apply):

- 1st Quarter (January, February, March)
 2nd Quarter (April, May, June)
 3rd Quarter (July, August, September)
 4th Quarter (October, November, December)

Instructions: *For the pollutant parameter above*, summarize any Level 1, 2, or 3 corrective actions completed during the previous calendar year and include the dates you completed the corrective actions.

Level 1 corrective action

Describe the additional *operational source control* BMPs you implemented (Permit Condition S8.B):

This benchmark exceedance was attributed to construction activities covered under the CSGP. A significant rain event in October 2016 overwhelmed TESC BMPs within the construction area, causing sediment-laden water to discharge from the construction area and flow to ISGP monitoring locations downstream. Since industrial activities were not the cause of this benchmark exceedance, no revisions were made to the ISGP SWPPP and no changes were made to operational source control BMPs. King County Solid Waste Division worked with the construction contractor who held the CSGP to improve TESC within the construction area.

Date corrective action was completed: October 2016

Level 2 corrective action

Describe the additional *structural source control* BMPs you implemented (Permit Condition S8.C):

Date corrective action was completed:

Level 3 corrective action

Describe the additional *treatment* BMPs you implemented (Permit Condition S8.D):

Date corrective action was completed:

Instructions: *For the pollutant parameter listed above*, describe the status of any Level 2 or 3 corrective actions triggered during the previous calendar year, but have not yet been completed. Identify the date you expect to complete corrective actions.

Level 2 corrective action

Describe the status of the corrective action:

Date you expect to complete corrective action:

Level 3 Corrective Action

Describe the status of the corrective action:

Date you expect to complete corrective action:

Pollutant Parameter: Oil sheen benchmark was exceeded during the following quarters (check all that apply):

- 1st Quarter (January, February, March)
- 2nd Quarter (April, May, June)
- 3rd Quarter (July, August, September)
- 4th Quarter (October, November, December)

Instructions: For the pollutant parameter above, summarize any Level 1, 2, or 3 corrective actions completed during the previous calendar year and include the dates you completed the corrective actions.

Level 1 corrective action

Describe the additional *operational source control* BMPs you implemented (Permit Condition S8.B):

The presence of oil sheen at monitoring location GS1 was a direct result of a vehicle rollover accident that occurred in January 2016. Spill response activities were prompt and effective but residual oil sheen was present during first and second quarter monitoring events. In the interest of preventing future accidents, site personnel were reminded to obey posted speed limits.

Date corrective action was completed: January 2016

Level 2 corrective action

Describe the additional *structural source control* BMPs you implemented (Permit Condition S8.C):

In the interest of preventing future accidents, road improvements were made, including paving of shoulders and superelevation improvements.

Date corrective action was completed: December 2016

Level 3 corrective action

Describe the additional *treatment* BMPs you implemented (Permit Condition S8.D):

Date corrective action was completed:

Instructions: For the pollutant parameter listed above, describe the status of any Level 2 or 3 corrective actions triggered during the previous calendar year, but have not yet been completed. Identify the date you expect to complete corrective actions.

Level 2 corrective action

Describe the status of the corrective action:

Date you expect to complete corrective action:

Level 3 Corrective Action

Describe the status of the corrective action:

Date you expect to complete corrective action:

Pollutant Parameter: **Copper** benchmark was exceeded during the following quarters (check all that apply):

- 1st Quarter (January, February, March)
- 2nd Quarter (April, May, June)
- 3rd Quarter (July, August, September)
- 4th Quarter (October, November, December)

Instructions: *For the pollutant parameter above, summarize any Level 1, 2, or 3 corrective actions completed during the previous calendar year and include the dates you completed the corrective actions.*

Level 1 corrective action

Describe the additional *operational source control* BMPs you implemented (Permit Condition S8.B):

Same as corrective action for turbidity exceedance, described above.

Date corrective action was completed:

Level 2 corrective action

Describe the additional *structural source control* BMPs you implemented (Permit Condition S8.C):

Date corrective action was completed:

Level 3 corrective action

Describe the additional *treatment* BMPs you implemented (Permit Condition S8.D):

Date corrective action was completed:

Instructions: *For the pollutant parameter listed above, describe the status of any Level 2 or 3 corrective actions triggered during the previous calendar year, but have not yet been completed. Identify the date you expect to complete corrective actions.*

Level 2 corrective action

Describe the status of the corrective action:

Date you expect to complete corrective action:

Level 3 Corrective Action

Describe the status of the corrective action:

Date you expect to complete corrective action:

4. Certification by Permittee

"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."

Printed Name	Company	Date
Signature*		

***Note: Signature not required if the form is submitted electronically through the Water Quality Permitting Portal**

***Federal regulations require this report to be signed by the following person, or a duly authorized representative:**

- In the case of corporations, by a responsible corporate officer.
Note: Responsible Corporate Officer is defined on p.59 of ISGP:
<http://www.ecy.wa.gov/programs/wq/stormwater/industrial/ISGPFinal2015.pdf>
- In the case of a partnership, by a general partner of a partnership.
- In the case of sole proprietorship, by the proprietor.
- In the case of a municipality, state, federal, or other public facility: by either a principal executive officer or ranking elected official.

A person is a duly authorized representative only if:

- The authorization is made in writing by a person described above and submitted to Ecology.
- The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

Please upload the completed form to the Water Quality Permitting Portal:

<http://www.ecy.wa.gov/programs/wq/permits/paris/portal.html>. Make sure you retain a copy for your records.

- Click on "Permit Submittals"
- Then, click on "My Permits", and
- Then, click on "Submittals".

If you have any issues or questions, please contact Ecology's IT support staff at WQWebPortal@ecy.wa.gov or call 800-633-6193/Option 3

If you have questions about this form, contact the following Ecology staff:			
Location	Contact Name	Phone	E-mail
City of Seattle, and Kitsap, Pierce, and Thurston counties	Josh Klimek	360-407-7451	josh.klimek@ecy.wa.gov
Island, King, and San Juan counties	Clay Keown	360-407-6048	clay.keown@ecy.wa.gov
Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Skagit, Snohomish, Spokane, Stevens, Walla, Whatcom, and Whitman counties.	Shawn Hopkins	360-407-6442	shawn.hopkins@ecy.wa.gov
Benton, Chelan, Clallam, Clark, Cowlitz, Douglas, Grays Harbor, Jefferson, Kittitas, Klickitat, Lewis, Mason, Okanogan, Pacific, Skamania, Wahkiakum, and Yakima counties.	Joyce Smith	360-407-6858	joyce.smith@ecy.wa.gov

To request materials in a format for the visually impaired, call the Water Quality Program at Ecology, 360-407-6600, Relay Service 711, or TTY 877-833-6341.

Washington Department of Ecology Submission Cover Letter

**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1535707 -
4/12/2016 4:44:59 PM**

Report Received Dated:

4/12/2016 4:45:08 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Pamela Badger	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Tuesday April 12 2016

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



0krk5y1Q6VSfm4q2LmXFpAfp7SmLDi2oJV92olae2WOoFPBfGDqseJMGTgNYj089vWYaxLZ81XVIoA7D
X3Wt586XeHeXJVjyCuZXhwkUgSc=



Validation Report

Facility: CEDAR HILLS LANDFILL - Permit: WAR000756

Monitoring Period: 01/01/2016 to 03/31/2016

Validation Message Type: Warning

Outfall	Monitoring Point	Parameter	Units	Sample Date/ Statistical Base	Value Entered	Limit/Benchmark	Error Message
GS1	GS1	Oil & Grease Not Applicable	Yes/No	02/11/2016	Yes	BM: <= 0	The reported value exceeded the benchmark. You are required to take action (See Permit Condition S8).



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2016 - 03/31/2016

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl,-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
	Limit Set	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
7-Th	2/11/16	11.3	6.13	Yes*	2.83	4.24	3.2	6.2	0.189	<5	<50	<10
Minimum			6.13 BM: >= 5.0 (RO)									
Average		11.3 BM: <= 25			2.83 BM: <= 14	4.24 BM: <= 117						
Maximum			6.13 BM: <= 9.0 (RO)									
Month 1 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 2 Average							3.2 <= 37	6.2 <= 27	0.189 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Outfall: GS1 - Discharge to unnamed stream (wetland)

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
GS1	Oil & Grease Not Applicable Yes/No	2/11/2016	Yes	Presence of oil seen attributed to truck rollover accident that released fuel into Stormwater ditch one month prior to sampling. Spill was immediately cleaned up to the maximum extent practicable (Ecology staff onsite during cleanup). Sampling results indicate that residual amounts of petroleum remain, likely bound to sediment and/or vegetation near sampling location. The quantity of residual petroleum remaining is small and it is unlikely that additional cleanup measures would remove a meaningful quantity. Natural attenuation is the preferred method of managing residual petroleum impacts in this situation.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		GS1	GS1	GS1
	Limit Set	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
7-Th	2/11/16	<4	4.24	6.13
Minimum				6.13 >= 6.0 (RO)
Average				
Maximum				6.13 <= 9.0 (RO)
Month 1 Average		M <= 15	M <= 110	
Month 2 Average		<4 <= 15	4.24 <= 110	
Month 3 Average		M <= 15	M <= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2016 - 03/31/2016

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	1/12/16	3.05	7.52	No	10.9	24.9	<2	1	0.0262	<5	<50	<10
Minimum			7.52 BM: >= 5.0 (RO)									
Average		3.05 BM: <= 25			10.9 BM: <= 14	24.9 BM: <= 117						
Maximum			7.52 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	1 <= 27	0.0262 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
	N4	N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	1/12/16	<4	24.9	7.52
Minimum				7.52 >= 6.0 (RO)
Average				
Maximum				7.52 <= 9.0 (RO)
Month 1 Average		<4 <= 15	24.9 <= 110	
Month 2 Average		M <= 15	M <= 110	
Month 3 Average		M <= 15	M <= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2016 - 03/31/2016

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl)- Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	1/12/16	3.56	6.55	No	3	11	<2	1.4	<0.01	<5	<50	<10
Minimum			6.55 BM: >= 5.0 (RO)									
Average		3.56 BM: <= 25			3 BM: <= 14	11 BM: <= 117						
Maximum			6.55 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	1.4 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

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 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.

Pamela Badger

4/12/2016 4:44:58 PM

Signature

Date



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		SL3	SL3	SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	1/12/16	<4	11	6.55
Minimum				6.55
				>= 6.0 (RO)
Average				
Maximum				6.55
				<= 9.0 (RO)
Month 1 Average		<4	11	
		<= 15	<= 110	
Month 2 Average		M	M	
		<= 15	<= 110	
Month 3 Average		M	M	
		<= 15	<= 110	

Washington Department of Ecology Submission Cover Letter

**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1548865 -
8/3/2016 2:28:01 PM**

Report Received Dated:

8/3/2016 2:28:01 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Pamela Badger	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Wednesday August 03 2016

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



klx2T2nNKBdWYW2IseAIgCiL9qTOYg89n0hXUDrudBHiyp
+kvLPH486S5CaB5PL7ki3AGQ7irjFMAr2ePJ3Tp7bK1a6pJdkb8gLCaF7tjk8=



Validation Report

Facility: CEDAR HILLS LANDFILL - Permit: WAR000756

Monitoring Period: 04/01/2016 to 06/30/2016

Validation Message Type: Warning

Outfall	Monitoring Point	Parameter	Units	Sample Date/ Statistical Base	Value Entered	Limit/Benchmark	Error Message
GS1	GS1	Oil & Grease Not Applicable	Yes/No	04/05/2016	Yes	BM: <= 0	The reported value exceeded the benchmark. You are required to take action (See Permit Condition S8).



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2016 - 06/30/2016

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	3.42	7.75	Yes*	13.2	22.7	2.98	6.6	0.181	<5	<50	<10
Minimum			7.75 BM: >= 5.0 (RO)									
Average		3.42 BM: <= 25			13.2 BM: <= 14	22.7 BM: <= 117						
Maximum			7.75 BM: <= 9.0 (RO)									
Month 1 Average							2.98 <= 37	6.6 <= 27	0.181 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Outfall: GS1 - Discharge to unnamed stream (wetland)

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
GS1	Oil & Grease Not Applicable Yes/No	4/5/2016	Yes	Presence of oil sheen attributed to truck rollover accident that released fuel into Stormwater ditch in January 2016. Spill was immediately cleaned up to the maximum extent practicable (Ecology staff onsite during cleanup). Sampling results indicate that residual amounts of petroleum remain, likely bound to sediment and/or vegetation near sampling location. The quantity of residual petroleum remaining is small and it is unlikely that additional cleanup measures would remove a meaningful quantity. In May 2016, Ecology concurred that the operational end point for the cleanup had been reached. Natural attenuation is the preferred method of managing residual impacts in this situation.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	<4	22.7	7.75
Minimum				7.75 >= 6.0 (RO)
Average				
Maximum				7.75 <= 9.0 (RO)
Month 1 Average		<4 <= 15	22.7 <= 110	
Month 2 Average		M <= 15	M <= 110	
Month 3 Average		M <= 15	M <= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2016 - 06/30/2016

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl)- Micrograms/L (ug/L) Quarterly Grab	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set	Limit Set	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	1.37	8.13	No	8.38	14.8	<2	3	<0.01	<5	<50	<10
Minimum			8.13 BM: >= 5.0 (RO)									
Average		1.37 BM: <= 25			8.38 BM: <= 14	14.8 BM: <= 117						
Maximum			8.13 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	3 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	<4	14.8	8.13
Minimum				8.13 >= 6.0 (RO)
Average				
Maximum				8.13 <= 9.0 (RO)
Month 1 Average		<4 <= 15	14.8 <= 110	
Month 2 Average		M <= 15	M <= 110	
Month 3 Average		M <= 15	M <= 110	



Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2016 - 06/30/2016

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	1.33	7.41	No	2.62	8.93	<2	<1	<0.01	<5	<50	<10
Minimum			7.41 BM: >= 5.0 (RO)									
Average		1.33 BM: <= 25			2.62 BM: <= 14	8.93 BM: <= 117						
Maximum			7.41 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	<1 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

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 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.

Pamela Badger

8/3/2016 2:28:00 PM

Signature

Date



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		SL3	SL3	SL3
	Limit Set	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
2-T	4/5/16	<4	8.93	7.41
	Minimum			7.41 >= 6.0 (RO)
	Average			
	Maximum			7.41 <= 9.0 (RO)
	Month 1 Average	<4 <= 15	8.93 <= 110	
	Month 2 Average	M <= 15	M <= 110	
	Month 3 Average	M <= 15	M <= 110	

Washington Department of Ecology Submission Cover Letter

**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1558488 -
10/27/2016 12:14:41 PM**

Report Received Dated:

10/27/2016 12:14:41 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Pamela Badger	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Thursday October 27 2016

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



pcer3Oql00HeftHo9GRP9Sey0MAXz1/Xx/bLTsqGmgGhJh/sZZx9UM22t4At3GFj6zpCo/P6pvGWy58m5
B8bANzGPWd7VeX894DNDDLa1fg=



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Your DMR has been validated.

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Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2016 - 09/30/2016

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	7/12/16	18.2	6.72	No	3.66	<4	<2	7.4	0.12	<5	<50	<10
Minimum			6.72 BM: >= 5.0 (RO)									
Average		18.2 BM: <= 25			3.66 BM: <= 14	<4 BM: <= 117						
Maximum			6.72 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	7.4 <= 27	0.12 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							<2 <= 37	7.4 <= 27	0.12 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 3 Average							<2 <= 37	7.4 <= 27	0.12 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	7/12/16	<4	<4	6.72
Minimum				6.72
				>= 6.0 (RO)
Average				
Maximum				6.72
				<= 9.0 (RO)
Month 1 Average		<4	<4	
		<= 15	<= 110	
Month 2 Average		<4	<4	
		<= 15	<= 110	
Month 3 Average		<4	<4	
		<= 15	<= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2016 - 09/30/2016

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl)- Micrograms/L (ug/L) Quarterly Grab	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non- Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum		BM: >= 5.0 (RO)										
Average	BM: <= 25				BM: <= 14	BM: <= 117						
Maximum		BM: <= 9.0 (RO)										
Month 1 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 2 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 3 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
N4	All Parameters		C	No discharge



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum				>= 6.0 (RO)
Average				
Maximum				<= 9.0 (RO)
Month 1 Average		<= 15	<= 110	
Month 2 Average		<= 15	<= 110	
Month 3 Average		<= 15	<= 110	



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2016 - 09/30/2016

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	7/12/16	2.22	6.91	No	3.05	6.03	<2	<1	<0.01	<5	<50	<10
Minimum			6.91 BM: >= 5.0 (RO)									
Average		2.22 BM: <= 25			3.05 BM: <= 14	6.03 BM: <= 117						
Maximum			6.91 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	<1 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							<2 <= 37	<1 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 3 Average							<2 <= 37	<1 <= 27	<0.01 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

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 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.

Pamela Badger

10/27/2016 12:14:40 PM

Signature

Date



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-T	7/12/16	<4	6.03	6.91
Minimum				6.91 >= 6.0 (RO)
Average				
Maximum				6.91 <= 9.0 (RO)
Month 1 Average		<4 <= 15	6.03 <= 110	
Month 2 Average		<4 <= 15	6.03 <= 110	
Month 3 Average		<4 <= 15	6.03 <= 110	

Washington Department of Ecology Submission Cover Letter

**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1570663 -
2/8/2017 12:53:00 PM**

Report Received Dated:

2/8/2017 12:53:01 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Pamela Badger	WQWebPortal

Attachments:

Document Name of Description	Document File Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Wednesday February 8 2017

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



9uB2VaxBIetfCEIkmeOJmg0h9dUg20qXJpnLN+7IVu4LgIUhYSKT5suWdVI0kpMiMG
+ionIitMMGbMRnVS8dRYC7GVJSNa+tnjoOMLDvAo4=



Validation Report

Facility: CEDAR HILLS LANDFILL - Permit: WAR000756

Monitoring Period: 10/01/2016 to 12/31/2016

Validation Message Type: Violation

Outfall	Monitoring Point	Parameter	Units	Sample Date/ Statistical Base	Value Entered	Limit/Benchmark	Message
GS1	GS1	Solids (Residue) Total suspended (TSS)	Milligrams/L (mg/L)	10/13/2016	117	<= 88	The reported value exceeds the permit limit.
GS1	GS1	Solids (Residue) Total suspended (TSS)	Milligrams/L (mg/L)	Month 1 Average	117	<= 27	The reported value exceeds the permit limit.
N4	N4	Zinc Total	Micrograms /L (ug/L)	Month 1 Average	111	<= 110	The reported value exceeds the permit limit.

Validation Message Type: Warning

Outfall	Monitoring Point	Parameter	Units	Sample Date/ Statistical Base	Value Entered	Limit/Benchmark	Message
GS1	GS1	Turbidity (Nephelometric) Measured	NTU	Average	273	BM: <= 25	The reported value exceeded the benchmark. You are required to take action (See Permit Condition S8).
GS1	GS1	Copper Total	Micrograms /L (ug/L)	Average	22.2	BM: <= 14	The reported value exceeded the benchmark. You are required to take action (See Permit Condition S8).



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 10/01/2016 - 12/31/2016

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-Th	10/13/16	273	7.98	No	22.2	30.2	4.96	117	0.089	<5	<50	<10
Minimum			7.98 BM: >= 5.0 (RO)									
Average		273 BM: <= 25			22.2 BM: <= 14	30.2 BM: <= 117						
Maximum			7.98 BM: <= 9.0 (RO)									
Month 1 Average							4.96 <= 37	117 <= 27	0.089 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

Industrial stormwater at the Cedar Hills Regional Landfill is managed by King County (KC) under the ISGP (permit no. WAR000756). In addition, a portion of the landfill is currently under construction. CSGP No. WAR303859 is issued to the private contractor responsible for managing construction stormwater. The construction area is upstream of ISGP monitoring locations at the landfill, thus construction discharges affect ISGP compliance. In 4Q16, industrial stormwater was effectively managed at the landfill, however, rain events overwhelmed TESC BMPs within the construction area. Sediment-laden water discharged from the construction area and flowed to KC's ISGP monitoring locations, resulting in benchmark and effluent limit exceedances. At the time this DMR was submitted, the private contractor's DMR for October 2016 showed no discharge during that month. This is inconsistent with KC observations and KC is working with the private contractor to resolve the issue.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-Th	10/13/16	<4	30.2	7.98
Minimum				7.98 >= 6.0 (RO)
Average				
Maximum				7.98 <= 9.0 (RO)
Month 1 Average		<4 <= 15	30.2 <= 110	
Month 2 Average		M <= 15	M <= 110	
Month 3 Average		M <= 15	M <= 110	



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 10/01/2016 - 12/31/2016

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-F	10/14/16	9.91	8.91	No	3.67	111	2.17	1.8	0.038	<5	<50	<10
Minimum			8.91 BM: >= 5.0 (RO)									
Average		9.91 BM: <= 25			3.67 BM: <= 14	111 BM: <= 117						
Maximum			8.91 BM: <= 9.0 (RO)									
Month 1 Average							2.17 <= 37	1.8 <= 27	0.038 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

Industrial stormwater at the Cedar Hills Regional Landfill is managed by King County (KC) under the ISGP (permit no. WAR000756). In addition, a portion of the landfill is currently under construction. CSGP No. WAR303859 is issued to the private contractor responsible for managing construction stormwater. The construction area is upstream of ISGP monitoring locations at the landfill, thus construction discharges affect ISGP compliance. In 4Q16, industrial stormwater was effectively managed at the landfill, however, rain events overwhelmed TESC BMPs within the construction area. Sediment-laden water discharged from the construction area and flowed to KC's ISGP monitoring locations, resulting in benchmark and effluent limit exceedances. At the time this DMR was submitted, the private contractor's DMR for October 2016 showed no discharge during that month. This is inconsistent with KC observations and KC is working with the private contractor to resolve the issue.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-F	10/14/16	<4	111	8.91
Minimum				8.91 >= 6.0 (RO)
Average				
Maximum				8.91 <= 9.0 (RO)
Month 1 Average		<4 <= 15	111 <= 110	
Month 2 Average		M <= 15	M <= 110	
Month 3 Average		M <= 15	M <= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 10/01/2016 - 12/31/2016

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha,,alpha,,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-Th	10/13/16	2.23	8.21	No	4.27	5.95	<2	<1	0.011	<5	<50	<10
11-M	12/5/16	15.3	M	M	M	M	M	M	M	M	M	M
Minimum			8.21 BM: >= 5.0 (RO)									
Average		8.765 BM: <= 25			4.27 BM: <= 14	5.95 BM: <= 117						
Maximum			8.21 BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	<1 <= 27	0.011 <= 4.9	<5 <= 16	<50 <= 71	<10 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

Industrial stormwater at the Cedar Hills Regional Landfill is managed by King County (KC) under the ISGP (permit no. WAR000756). In addition, a portion of the landfill is currently under construction. CSGP No. WAR303859 is issued to the private contractor responsible for managing construction stormwater. The construction area is upstream of ISGP monitoring locations at the landfill, thus construction discharges affect ISGP compliance. In 4Q16, industrial stormwater was effectively managed at the landfill, however, rain events overwhelmed TESC BMPs within the construction area. Sediment-laden water discharged from the construction area and flowed to KC's ISGP monitoring locations, resulting in benchmark and effluent limit exceedances. At the time this DMR was submitted, the private contractor's DMR for October 2016 showed no discharge during that month. This is inconsistent with KC observations and KC is working with the private contractor to resolve the issue.

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 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.

Pamela Badger

2/8/2017 12:53:00 PM

Signature

Date



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
3-Th	10/13/16	<4	5.95	8.21
11-M	12/5/16	M	M	M
Minimum				8.21
				>= 6.0 (RO)
Average				
Maximum				8.21
				<= 9.0 (RO)
Month 1 Average		<4	5.95	
		<= 15	<= 110	
Month 2 Average		M	M	
		<= 15	<= 110	
Month 3 Average		M	M	
		<= 15	<= 110	