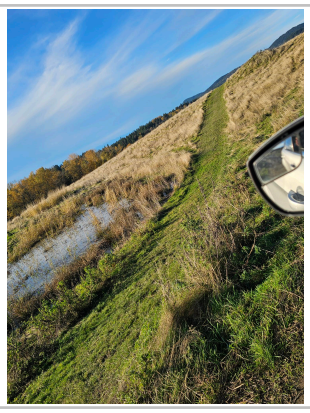
Docusign Envelope ID: D2DEB23A-B3C2-41E9-9DC9-6FB21F7E9816



Top Deck - Surface Water Ponding



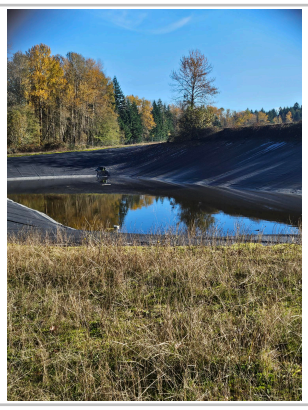
Surface water Ponding - south of RNG plant



Surface Water Ponding- near are



Surface water ponding - west perimeter road nea



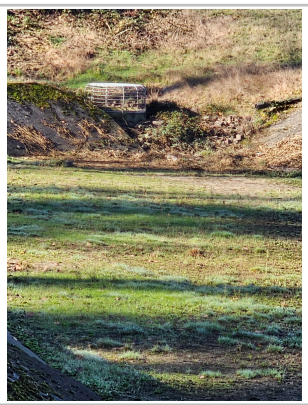
North Siltation Pond



N1- Stormwater Culvert



Fence - West perimeter road



Sand Filter- Vegetation needs removal from the i



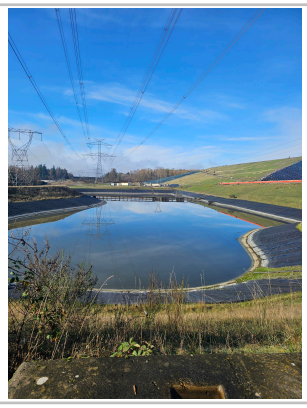
South Stormwater Siltation lagoon



Sand Filter - vegetation needs removal



Water Structure needs lid - SE of the CSW



Contaminated Stormwater Pond (CSW)

Docusign Envelope ID: D2DEB23A-B3C2-41E9-9DC9-6FB21F7E9816

AREA CODES (Cedar Hills):

Area 2/3 = A2/3	Area 7 = A7	East Main Hill = EMH	Southwest Main Hill = SWMH
Area 4 = A4	Area 8 = A8	Leachate Lagoon = LL	Stockpile = CP
Area 5 = A5	Central Pit = CP	North Flare Station = NFS	
Area 6 = A6	CSW Lagoon = CSW	Southeast Pit Area = SEPA	

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

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
    a. *Urgent*
    b. *Routine*
    c. *Deferred*

Overall site description day of site inspection:

General Site Condition:
Overall, the site is in good condition.
Action Needed:
i) Top deck ponding address: Area 5 and area 7 ponding needs soil to maintain natural ground level and maintain the current drainage pattern.
ii) The South Stormwater Siltation Lagoon flow pipe located southwest of the pond requires a secure lid to enhance safety for users of the area and prevent accidental falls by wildlife.
iii) CSW lagoon and the South Siltation Pond receiving surface water runoff.
Action/Planning: Schedule sediment removal for both the CSW lagoon and the South Siltation Pond for Summer 2026.
iv) Vegetation Removal (Multiple Locations) look at the photo in the next page
- Vegetation control is required in several areas to ensure proper drainage, access, and function storm water ditches.
- Vegetation removal is needed in several asphalt-lined storm water ditches. This work appears to be in progress (signs of recent trimming were noted).
- Vegetation removal is necessary in the steel ditches located on the East Main Hill.
- Sand Filter: Vegetation must be removed from the sand filter media.
- Staff Gages: Clear vegetation from around several surface water staff gages to improve access and visibility for readings.

Long term plan:
- Temporary soil stabilization near N1.
- Permanent replacement of the N1 culvert at 2028.
Slip-lining N4 storm water pipe.

Potential Pollutant Sources Identified:
-No sources of potential stormwater pollution were identified during the inspection.

SWPPP Modifications Necessary? NO

Potential Pollutant Sources NO

If **Y**, *log changes in Appendix I of SWPPP*

Docusign Envelope ID: D2DEB23A-B3C2-41E9-9DC9-6FB21F7E9816

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 11/19/2025 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

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

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

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

* Immediately notify Environmental Compliance Coordinator

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

Printed name: Inspection Engineer

Signature: DocuSigned by: Subrina Tahsin EF99840290E4443... Date: 12/3/2025

DULY AUTHORIZED REPRESENTATIVE

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

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

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

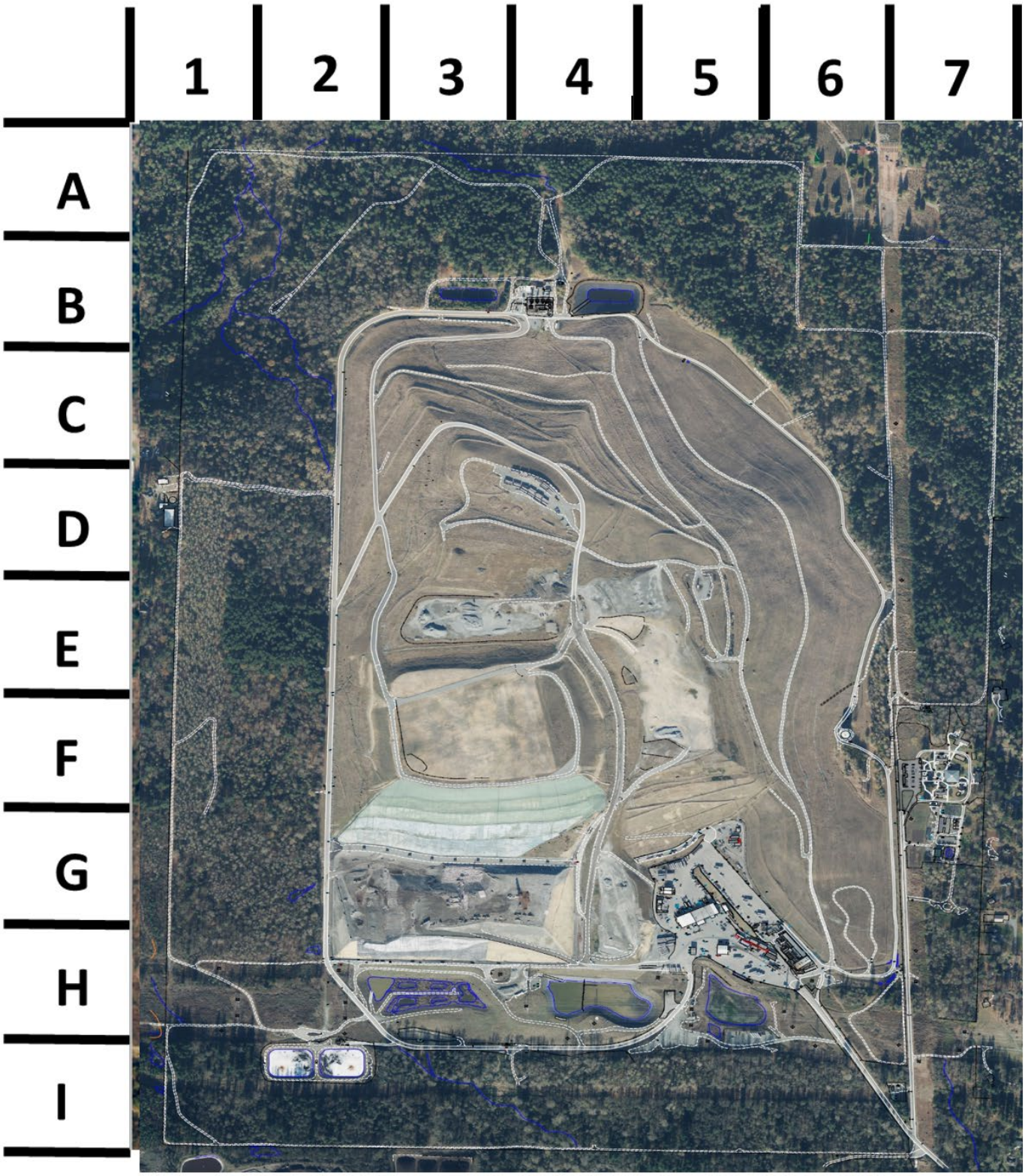
* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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: Landfill Supervisor/Manager

Signature: DocuSigned by: Scott Barden 3C6E21EE72DF43C... Date: Dec 11, 2025

Docusign Envelope ID: D2DEB23A-B3C2-41E9-9DC9-6FB21F7E9816



Docusign Envelope ID: 4450A330-CF75-445B-A832-DFFBEA506262

SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Stormwater Permit Compliance (ISGP Permit # WAR000756)

Inspected By: Subrina Tahsin+Samantha Peveto Date: 12/15/25; 12/17/25

Location: Cedar Hills Ambient Temperature: (45 ºF) Weather Condition: Rain

Inspection Requirements

1. Observations of the discharge points were stormwater leaves the site (N4, GS1, and SL3).
2. Observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in stormwater leaving site (See field sheets for that information).
3. Observations for the presence of an illicit discharge.
4. Verification that the descriptions of potential pollutant sources in this SWPPP are accurate.
5. Verification that the site map in this SWPPP is accurate.
6. Assessment of BMPs for effectiveness, maintenance needs, and any deficiencies warranting new or different BMP's than those implemented at the time of the inspection.

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond	X			Working on the permanent stable Lid on the CSW pipe on the South-west side repalcing the w
B. North Siltation Pond		X		Silt fence and the baffles need replacement
C. North SW Lagoon (Lined Lagoon)	X			Some vegetation. Clear up weeds to clear up the muddy
D. South SW Pond	X			
E. South Siltation Pond	X			Siltation fense needs repair
F. South Sand Filter		X		Outlet structure has multiple crack and needs repair. Vegetation removal needed in actual top l
G. CB/ Control Structures	X			Reconstruct the settled CB by replacing adjustment rings, re-compacting the base, patching th
H. Pipes/Culverts	X			N1 both inlet and outlet erosion is continuing both side of the culvert;
I. Trash Racks	X			
J. Ditches	X			Vegetation growth observed. Clear those. Some minor gaps within metal ditches.
K. Best Management Practices	X			Few surface water ponding were observed near area 6 south slope, at the top deck of area 5 and area 7. Several rock check dams near the operators' trailers are sagging and need repair. Overflow structures at sand filter had flow due to heavy storm event
L. Compliance Points:				
a. SW-N4	X			
b. SW-GS1	X			
c. SW-SL3	X			
e. Other				S1 - along South property line need some ditch maintenace

Docusign Envelope ID: 4450A330-CF75-445B-A832-DFFBEA506262



Stormwater ponding near area 6, Top deck area 5



Fence damaged



Overgrown vegetation near Stror



Overgrown vegetation in Storm-water asphalt line



N1 Culvert erosion continues



Overflow structure multiple cracks



Maintain erosion blankets BMP



Catch basin grate sink



Debris around overflow structure



Low spot in South perimeter road near QCF



Silt fence failing in the rock check dam



silt fence damage in the north siltation pond

Docusign Envelope ID: 4450A330-CF75-445B-A832-DFFBEA506262

AREA CODES (Cedar Hills):

Area 2/3 = A2/3	Area 7 = A7	East Main Hill = EMH	Southwest Main Hill = SWMH
Area 4 = A4	Area 8 = A8	Leachate Lagoon = LL	Stockpile = CP
Area 5 = A5	Central Pit = CP	North Flare Station = NFS	
Area 6 = A6	CSW Lagoon = CSW	Southeast Pit Area = SEPA	

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

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
    a. *Urgent*
    b. *Routine*
    c. *Deferred*

Overall site description day of site inspection:

The site is in generally good condition. However, specific maintenance actions are required to ensure continued SWPPP compliance and structural integrity.

Action Needed:
1) Catch Basin: Significant settlement was observed at the catch basin grate in the CHRLF Support Facilities area near the southeast storm-water pond. The grate has sunk, creating a tripping hazard and potential for localized flooding. There is visible cracking and crumbling of the asphalt edges adjacent to the basin. Required action to take are: Remove existing asphalt and the grate; install new concrete adjustment rings to return the frame to proper grade; re-compact the stone base and pour a new concrete collar or asphalt patch to seal the unit. To control sediment, replace the existing sediment bag, which was compromised by the structural settlement, with a new yellow mono filament filter bag. Since this was an immediate safety concern, CHRLF Utility staff have placed high-visibility cones near the hazard.
2) Crack in Outfall Structure in the Sand Filter: Multiple cracks was observed at the outfall structure. At CHRLF, structural integrity is critical to preventing embankment failure; repair is necessary to ensure sediment-laden water does not bypass the road from the pond or enter the local watershed.
3) Storm water ditches (asphalt-lined ditches and metal ditches): Clear overgrown vegetation within the drainage ditches. Maintain vegetation height under 6 inches to prevent flow blockages and sediment accumulation, ensuring unobstructed runoff.
4) Slope Stabilization (Fiber Rolls/Blankets): Maintain and re-stake fiber rolls and erosion control blankets. Remove accumulated sediment behind these barriers to prevent runoff bypass and slope erosion.
5) Stormwater Pond Wet Cells: Observed shrub type vegetation growth within the stormwater pond wet cells. Suggested recommendation by WRLD was to perform pruning in May (Spring) to clear access paths and maintain sight lines for inspectors. Compliance Note: The annual inspection confirmed no tree growth within 15 feet of concrete spillways or pipes.
6) Outfall Structure (Sand Filter): A crack was observed at the outfall structure. At CHRLF, structural integrity is critical to preventing embankment failure; repair is necessary to ensure sediment-laden water does not bypass the pond or enter the local watershed.6) General Vegetation Management: Trim overgrown vegetation on both the asphalt-lined and metal ditches to maintain hydraulic capacity.

Long term plan:
- Culvert embankment stabilization near N1.
- Permanent replacement of the N1 culvert by 2028.
- Slip-lining N4 storm water pipe.

Potential Pollutant Sources Identified:
-No sources of potential stormwater pollution were identified during the inspection.

SWPPP Modifications Necessary? NO

Potential Pollutant Sources NO

If **Y**, *log changes in Appendix I of SWPPP*

Docusign Envelope ID: 4450A330-CF75-445B-A832-DFFBEA506262

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 12/15/2025; 12/17/2025 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

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

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

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

* Immediately notify Environmental Compliance Coordinator

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

Printed name: Inspection Engineer

Signature: DocuSigned by: Samantha Pereto 2868F7B7EB4E449... Date: Jan 6, 2026

DULY AUTHORIZED REPRESENTATIVE

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

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

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

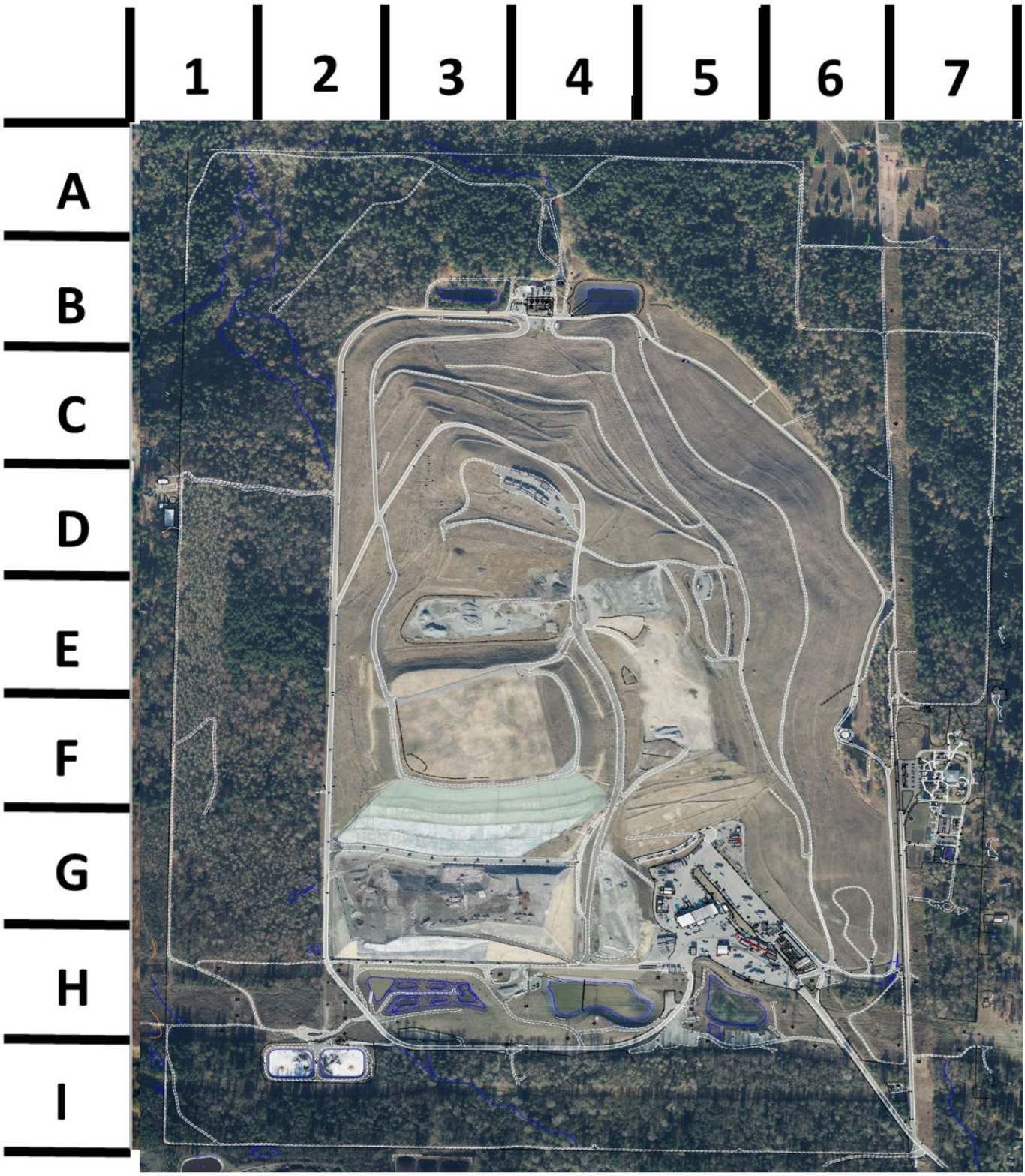
* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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: Landfill Supervisor/Manager

Signature: DocuSigned by: Scott Barden 3C6E21EE72DF43C... Date: Jan 6, 2026

Docusign Envelope ID: 4450A330-CF75-445B-A832-DFFBEA506262



Cedar Hills Area 5 Maintenance

for the period 10/01/2025 *to* 12/31/2025

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Area 5						
	CHAREA5	0000031668	CLOSED	Monthy Gas System PM	10/25/2025	N
	CHAREA5	0000031668	CLOSED	Monthly Stormwater PM	10/25/2025	N
	CHAREA5	0000031668	CLOSED	Monthly Cover System PM	10/25/2025	N
	CHAREA5	0000031804	CLOSED	Monthy Gas System PM	11/24/2025	N
	CHAREA5	0000031804	CLOSED	Monthly Stormwater PM	11/24/2025	N
	CHAREA5	0000031804	CLOSED	Monthly Cover System PM	11/24/2025	N
	CHAREA5	0000031937	CLOSED	Monthy Gas System PM	12/16/2025	N
	CHAREA5	0000031937	CLOSED	Monthly Stormwater PM	12/16/2025	N
	CHAREA5	0000031937	CLOSED	Monthly Cover System PM	12/16/2025	N
	CHAREA5E	0000031594	CLOSED	Monthly Header PM	10/07/2025	N
	CHAREA5E	0000031872	CLOSED	Monthly Header PM	12/01/2025	N
	CHAREA5W	0000031593	CLOSED	Monthly Header PM	10/06/2025	N
	CHAREA5W	0000031593	CLOSED	Monthly Header PM	10/07/2025	N
	CHAREA5W	0000031729	CLOSED	Monthly Header PM	12/01/2025	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 10/01/2025 *to* 12/31/2025

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Landfill Cover						
	CHSTOCKPILE	0000031665	CLOSED	PMV	10/17/2025	N
	CHAPONDS	0000031666	CLOSED	PMV	10/17/2025	N
	CHAREA4	0000031667	CLOSED	PMV	10/25/2025	N
	CHAREA5	0000031668	CLOSED	PMV	10/25/2025	N
	CHAREA6	0000031669	CLOSED	PMV	10/03/2025	N
	CHAREAS23	0000031672	CLOSED	PMV	10/04/2025	N
	CHCENTRALPIT	0000031673	CLOSED	PMV	10/04/2025	N
	CHEMH	0000031674	CLOSED	PMV	10/03/2025	N
	CHSEPA	0000031675	CLOSED	PMV	10/03/2025	N
	CHSSWA	0000031676	CLOSED	PMV	10/18/2025	N
	CHSWMH	0000031677	CLOSED	PMV	10/03/2025	N
	CHNFLARESTN	0000031678	CLOSED	PMV	10/17/2025	N
	CHSTOCKPILE	0000031801	CLOSED	PMV	11/24/2025	N
	CHAPONDS	0000031802	CLOSED	PMV	11/24/2025	N
	CHAREA4	0000031803	CLOSED	PMV	11/24/2025	N
	CHAREA5	0000031804	CLOSED	PMV	11/24/2025	N
	CHAREA6	0000031805	CLOSED	PMV	11/24/2025	N
	CHAREAS23	0000031808	CLOSED	PMV	11/24/2025	N
	CHCENTRALPIT	0000031809	CLOSED	PMV	11/24/2025	N
	CHEMH	0000031810	CLOSED	PMV	11/24/2025	N
	CHSSWA	0000031811	CLOSED	PMV	11/24/2025	N
	CHSEPA	0000031812	CLOSED	PMV	11/24/2025	N
	CHSWMH	0000031813	CLOSED	PMV	11/24/2025	N
	CHNFLARESTN	0000031814	CLOSED	PMV	11/24/2025	N
	CHSTOCKPILE	0000031934	CLOSED	PMV	12/16/2025	N
	CHAPONDS	0000031935	CLOSED	PMV	12/16/2025	N
	CHAREA4	0000031936	CLOSED	PMV	12/16/2025	N
	CHAREA5	0000031937	CLOSED	PMV	12/16/2025	N
	CHAREA6	0000031938	CLOSED	PMV	12/16/2025	N
	CHAREAS23	0000031941	CLOSED	PMV	12/16/2025	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHCENTRALPIT	0000031942	CLOSED	PMV	12/16/2025	N
	CHEMH	0000031943	CLOSED	PMV	12/16/2025	N
	CHSEPA	0000031944	CLOSED	PMV	12/16/2025	N
	CHSSWA	0000031945	CLOSED	PMV	12/16/2025	N
	CHSWMH	0000031946	CLOSED	PMV	12/16/2025	N
	CHNFLARESTN	0000031947	CLOSED	PMV	12/16/2025	N
Landfill Gas						
	CHAREA5W	0000031648	CLOSED	PMW	10/08/2025	N
	CHAREA5W	0000031717	CLOSED	PMW	10/29/2025	N
	CHAREA5W	0000031785	CLOSED	PMW	11/05/2025	N
	CHAREA5W	0000031852	CLOSED	PMW	11/17/2025	N
	CHAREA5W	0000031918	CLOSED	PMW	12/18/2025	N
	CHAREA5W	0000031985	CLOSED	PMW	12/04/2025	N
	CHEMH	0000031652	CLOSED	PMW	10/08/2025	N
	CHEMH	0000031721	CLOSED	PMW	10/22/2025	N
	CHEMH	0000031789	CLOSED	PMW	11/06/2025	N
	CHEMH	0000031856	CLOSED	PMW	11/20/2025	N
	CHEMH	0000031922	CLOSED	PMW	12/09/2025	N
	CHEMH	0000031989	CLOSED	PMW	12/23/2025	N
	CHAREAS23	0000031631	CLOSED	PMW	10/06/2025	N
	CHAREAS23	0000031706	CLOSED	PMW	10/27/2025	N
	CHAREAS23	0000031768	CLOSED	PMW	11/05/2025	N
	CHAREAS23	0000031770	CLOSED	PMW	11/07/2025	N
	CHAREAS23	0000031841	CLOSED	PMW	11/21/2025	N
	CHAREAS23	0000031900	CLOSED	PMW	12/01/2025	N
	CHAREA6	0000031591	CLOSED	PMW	10/15/2025	N
	CHAREA6	0000031681	CLOSED	PMW	10/15/2025	N
	CHAREA6	0000031727	CLOSED	PMW	11/06/2025	N
	CHAREA6	0000031817	CLOSED	PMW	11/20/2025	N
	CHAREA6	0000031859	CLOSED	PMW	12/04/2025	N
	CHAREA6	0000031950	CLOSED	PMW	12/17/2025	N
	CHSEPA	0000031615	CLOSED	PMW	10/01/2025	N
	CHSEPA	0000031695	CLOSED	PMW	10/27/2025	N
	CHSEPA	0000031751	CLOSED	PMW	11/06/2025	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHSEPA	0000031883	CLOSED	PMW	12/06/2025	N
	CHSEPA	0000031963	CLOSED	PMW	12/20/2025	N
	CHSEPA	0000031992	CLOSED	PMW	11/20/2025	N
	CHCMH	0000031641	CLOSED	PMW	10/01/2025	N
	CHCMH	0000031641	CLOSED	PMW	10/02/2025	N
	CHCMH	0000031641	CLOSED	PMW	10/07/2025	N
	CHCMH	0000031713	CLOSED	PMW	10/16/2025	N
	CHCMH	0000031713	CLOSED	PMW	10/22/2025	N
	CHCMH	0000031713	CLOSED	PMW	10/28/2025	N
	CHCMH	0000031778	CLOSED	PMW	11/05/2025	N
	CHCMH	0000031778	CLOSED	PMW	11/05/2025	N
	CHCMH	0000031778	CLOSED	PMW	11/06/2025	N
	CHCMH	0000031848	CLOSED	PMW	11/18/2025	N
	CHCMH	0000031848	CLOSED	PMW	11/19/2025	N
	CHCMH	0000031848	CLOSED	PMW	11/25/2025	N
	CHCMH	0000031911	ACTIVE/WORK IN PROGRESS	PMW	12/03/2025	N
	CHCMH	0000031911	ACTIVE/WORK IN PROGRESS	PMW	12/03/2025	N
	CHCMH	0000031981	CLOSED	PMW	12/03/2025	N
	CHCMH	0000031981	CLOSED	PMW	12/17/2025	N
	CHCMH	0000031981	CLOSED	PMW	12/18/2025	N
	CHCMH	0000031981	CLOSED	PMW	12/23/2025	N
	CHAREA5E	0000031647	CLOSED	PMW	10/14/2025	N
	CHAREA5E	0000031716	CLOSED	PMW	10/29/2025	N
	CHAREA5E	0000031784	CLOSED	PMW	11/03/2025	N
	CHAREA5E	0000031851	CLOSED	PMW	11/17/2025	N
	CHAREA5E	0000031917	CLOSED	PMW	12/18/2025	N
	CHAREA5E	0000031984	CLOSED	PMW	12/04/2025	N
Landfill Roads						
	CHSTOCKPILE	0000031665	CLOSED	PMR	10/17/2025	N
	CHSTOCKPILE	0000031801	CLOSED	PMR	11/24/2025	N
	CHSTOCKPILE	0000031934	CLOSED	PMR	12/16/2025	N
	CHACTIVEAREA	0000031656	CLOSED	PMR	10/18/2025	N
	CHACTIVEAREA	0000031792	CLOSED	PMR	11/24/2025	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHACTIVEAREA	0000031925	CLOSED	PMR	12/16/2025	N
	CHPSR	0000031658	CLOSED	PMR	10/03/2025	N
	CHPSR	0000031794	CLOSED	PMR	11/24/2025	N
	CHPSR	0000031927	CLOSED	PMR	12/16/2025	N
	CHMAINGATE	0000031657	CLOSED	PMR	10/03/2025	N
	CHMAINGATE	0000031793	CLOSED	PMR	11/24/2025	N
	CHMAINGATE	0000031926	CLOSED	PMR	12/16/2025	N

Landfill Roads						
	Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N

Equipment *Click the word 'Equipment' to see Work Order Numbers*

Cedar Hills Regional Landfill
Area 5 Top Deck Report

ATTACHMENT I-2

Inspection Reports

Serpentine Surface Monitoring Logs
Serpentine Surface Monitoring Map
Serpentine Field Sheets
H2S Active Face Monitoring
Component Monitoring
Work Order Reports

Cedar Hills Landfill
Serpentine Logs
4th Quarter 2025

Date	Easting (10 T)	Northing (UTM)	CH4 PPM	H2S PPM	COMMENTS (200ppm-499ppm non-recordable to be logged)
10/3/2025					Started 4th quarter serpentine. No exceedances detected Fixed 1 Traverse, Main Hill. AT (3.25 Hours)
10/4/2025					No exceedances detected Fixed 1 Traverse, SEP. AT (3.5 Hours)
10/6/2025					No excedences detected Fixed Traverse 2 Top Deck Area 7. LM
10/7/2025					No exceedances detected Fixed Traverse 1, CC
10/7/2025					No exceedances detected Fixed Traverse 2, RK (Wind gust caused increased numbers on 7, from Area 8 fill) 50328
10/8/2025					No exceedances detected Fixed Traverse 2,RK 50328
10/8/2025					No exceedances detected fixed traverse 1 BB
10/9/2025					No exceedances detected Fixed Traverse 1, CC
10/10/2025					No exceedances detected Fixed Traverse 1, GC
10/14/2025					No excedences detected Fixed Traverse 1. LM
10/15/2025					No exceedances detected Variable Traverse 3. CC
10/21/2025	0571806	5257678	202PPM		Non repeatable detection. Could not repeat. Fixed Area 1 BB.
10/21/2025					No excedences detected Variable Traverse. LM
10/22/2025					No exceedances detected fixed traverse 1 BB
10/22/2025	571676.86	5257260.02	198ppm		198PPM Area 5 top deck, can be controlled by A5A4001E well.RK
10/22/2025	571734.36	5257217.6	265ppm		265PPM Area 5 top deck, can be controlled by A5A4001E well.RK
10/22/2025					No exceedances detected Variable Traverse 3,RK 50328
10/23/2025	571950.00	5257144	386ppm		386PPM. Located top of Area 6. CC
10/28/2025					Non repeatable detection. Could not repeat. Fixed Area 1 BB.
10/28/2025					NO EXCEEDANCES DETECTED FIXED 2 JF
10/30/2025					No exceedances detected. Fixed Traverse 1. BL
10/30/2025	571811	5256930	329PPM		Green Liner,GC
10/30/2025	571811	5256931	308PPM		Green Liner,GC
10/30/2025	571519	5256642	242PPM		Green Liner,GC
10/30/2025	571809	5256932	234PPm		Green Liner,GC
10/30/2025	571810	5256931	226PPM		Green Liner,GC
10/30/2025	571520	5256641	202PPM		Green Liner,GC
10/31/2025					No exceedances detected. Variable Traverse 3, CC.
10/31/2025					No exceedances detected. Fixed traverse 1.GC
11/3/2025					No exceedances detected. fixed Traverseb 1 JF
11/3/20-25					No exceedances detected. fixed Traverseb 2 CS
11/4/2025					No exceedances detected. fixed Traverseb 2 CS
11/8/2025					No exceedances detected Fixed 2 Traverse, Area 4. AT (4 Hours)
11/19/2025	571817	5257394	294PPM		294 PPM located near CH4l1303, fixed traverse 2.
11/19/2025					No exceedances detected. Fixed Traverse 2. BL
11/20/2025					No excedences detected fixed traverse 2. LM
11/20/2025					No exceedences detected liner penetrations BB
11/21/2025					No exceedences detected RH
11/21/2025					No excedences detected fixed traverse 2. GC
11/22/2025					No excedences detected fixed traverse 2. GC
11/22/2025					No exceedences detected RH
12/3/2025					No exceedances detected. Fixed 1 & Cedar Hills Perimeter. CC
12/13/2025					No Exceedences detected. Serpentine Completed. RH
12/13/2025					Component monitoring, No exceedences detected. RH
12/21/2025					Active face H2S monitoring no exceedences CS


N
200 100 0 200 400
GRAPHIC SCALE IN FEET
ACTIVE WORKING FACE
POTENTIAL AREA 8 SODDEN SOILS/TARPS
COVER PENETRATION EMISSION SOURCE
AREA EMISSION SOURCE
FIXED TRAVERSE PATH
VARIABLE TRAVERSE PATH DUE TO CONSTRUCTION ACTIVITIES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/28/25

Cal. Time: 7:45 AM

Technician: B.B.

Surveyor P.J.

Calibration :

Test Instrument used: SEM 5000

Cal. Gas Lot No: 500 PPM = 25-2809
Zero Air = 441690 2

Cal Gas Used:

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure	Time
Start 30.08	7:37 A
Stop 30.08	9:30 A

90% response time in seconds:

1 3 seconds

2 4 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: overcast

Wind Speed &

Direction (out of): 6 mph S

Northing (UTM #)	Easting (10 T #)	Time	Comments
No Exceedances		detected	

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 10/3/25

Cal. Time: 1:00 PM

Calibration :

Technician: AT

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4427483, 4417902

Cal Gas Used:

CH_4 500 PPM

O_2 ZERO AIR

Barometric Pressure		Time
Start	30.03	1:20PM
Stop	30.00	4:30PM

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3.33 seconds

Weather Conditions: SUNNY

Wind Speed & Direction (out of): 4 MPH, NW

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 10/04/25

Cal. Time: 8:45A

Calibration :

Technician: AT

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4427483, 4417902

Cal Gas Used:

CH_4 500 PPM

O_2 ZERO AIR

Barometric Pressure	Time
Start 30.00	1:00P
Stop 30.00	4:30P

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3.33 seconds

Weather Conditions: CLOUDY

Wind Speed &

Direction (out of): 4 MPH, NW

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/6/25

Cal. Time: 8:07 AM

Calibration :

Technician: LM

Test Instrument used: SEM5000 19883

Surveyor PJ

Cal. Gas Lot No: CH4 4427483 O air 4417902

Cal Gas Used:

CH_4 500 PPM

O_2 O air

Barometric Pressure	Time
Start 30.02	8:00 AM
Stop 30.02	2:00 PM

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Sunny

Wind Speed & Direction (out of): 3 mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No Exceedences Detected		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills - Fixed Traverse 1

Date: 10-7-2025

Cal. Time: 6:50 AM

Calibration :

Technician: CC

Test Instrument used: 40567 - Sem 5000

Surveyor PJ

Cal. Gas Lot No: CH4-4427483 Air-4417902

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.89	6:58 AM
Stop 29.80	3:00 PM

90% response time in seconds:

1 2.5 seconds

2 2 seconds

3 2 seconds

avg. 2.17 seconds

Weather Conditions: Sunny No clouds

Wind Speed & Direction (out of): 2 mph - SW

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No Exceedances

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS (FIXED TRAVERSE 2)

Date: 10/7/25

Cal. Time: 7:00 AM

Technician: KORICH

Surveyor PJ

Calibration :

Test Instrument used: 50328

Cal. Gas Lot No: 500ppm - A410005 4/30/27
ZERO AIR - A417902 6/30/27

Cal Gas Used:

CH_4 500 PPM

O_2 ULTRA ZERO AIR

Barometric Pressure	Time
Start 29.89	7:30 Am
Stop 29.80	10:00 Am

90% response time in seconds:

1 3.1 seconds

2 2.1 seconds

3 1.8 seconds

avg. 2.33 seconds

Weather Conditions: Sunny

Wind Speed & Direction (out of): SW 2 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR Hills
(FIXED TRAVERSE 2)

Date: 10/8/25

Cal. Time: 7:00AM

Technician: KORICA

Surveyor PJ

Calibration :

Test Instrument used: 50328

Cal. Gas Lot No: 500-4410005 4/30/27
ZERO AIR-4417902 4/30/27

Cal Gas Used:

CH_4 500 ppm

O_2 UHP ZERO AIR

Barometric Pressure	Time
Start 29.77	7:00 am
Stop 29.73	1200 pm

90% response time in seconds:

1 2.8 seconds

2 1.8 seconds

3 2.0 seconds

avg. 2.2 seconds

Weather Conditions: Cloudy

Wind Speed & Direction (out of): SE, 1 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/8/25

Cal. Time: 6:45 A

Technician: Bryce

Surveyor P.J.

Calibration :

Test Instrument used: SCM 5000

Cal. Gas Lot No: 500 – 4410005
CAR – 4417902

Cal Gas Used:

CH_4 500 ppm

O_2 21.0 Air

Barometric Pressure	Time
Start 29.77	6:30A
Stop 29.72	5:30P

90% response time in seconds:

1 3 seconds

2 4 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: Sunny

Wind Speed & Direction (out of): 5.1 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO Exceedances detected			

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills Fixed Traverse 1

Date: 10-9-2025

Cal. Time: 6:55 AM

Calibration :

Technician: CC

Test Instrument used: 40567-Sem5000

Surveyor PJ

Cal. Gas Lot No: CH4-4427483 Air4417902

Cal Gas Used:

CH_4 500PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.85	6:55 AM
Stop 29.89	1:45PM

90% response time in seconds:

1 2.75 seconds

2 2 seconds

3 2 seconds

avg. 2.25 seconds

Weather Conditions: Light Drizzle, Mostly Cloudy

Wind Speed & Direction (out of): 1 MPH - South

Northing (UTM #)	Easting (10 T #)	Time	Comments
			no exceedances
			Detected.

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10.10.25

Cal. Time: 7:14 AM

Technician: GC

Surveyor PJ

Calibration :

Test Instrument used: SEM 40567

Cal. Gas Lot No: 4417902, 4427483

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.80	7:10 AM
Stop 29.78	4:15 PM

90% response time in seconds:

1 5 seconds

2 4 seconds

3 4 seconds

avg. 4.333 seconds

Weather Conditions: Over cast

Wind Speed &

Direction (out of): East 4 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No exceedances
			detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/14/25

Cal. Time: 7:35 AM

Calibration :

Technician: LM

Test Instrument used: SEM5000 19883

Surveyor PJ

Cal. Gas Lot No: CH_4 25-2809

Cal Gas Used: 0 air 4417902

CH_4 500 ppm

O_2 0 air

Barometric Pressure	Time
Start 29.92	7:30 AM
Stop 29.90	2:30 PM

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Sunny

Wind Speed & Direction (out of): 4 mph, NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No exceedences detected		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills Variable 3

Date: 10-15-2025

Cal. Time: 6:55 AM

Technician: CC

Surveyor PJ

Calibration :

Test Instrument used: 50813 - Sem5000

Cal. Gas Lot No: CH4: 25-2809 Air: 4/4/17902

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.95	6:50 AM
Stop 29.97	3:40 PM

90% response time in seconds:

1 2.75 seconds

2 2.0 seconds

3 2.0 seconds

avg. 2.25 seconds

Weather Conditions: Sunny

Wind Speed & Direction (out of): NW 1 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No Exceedances

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/21/25

Cal. Time: 7:30 AM

Calibration :

Technician: LM

Test Instrument used: SEM 5000 19883

Surveyor PJ

Cal. Gas Lot No: O_2 4417902 CH_4 25-2809

Cal Gas Used:

CH_4 500 PPM

O_2 0 air

Barometric Pressure	Time
Start 30.05	7:30 AM
Stop 29.99	12:30 PM

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 2 mph SW

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No exceedences		
	detected		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/21/25

Cal. Time: 6:30 AM

Technician: B. B.

Surveyor P. S.

Calibration :

Test Instrument used: SCM 5000

Cal. Gas Lot No: 500 PPm - 25-2809 Zero Air - 4417902

Cal Gas Used:

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure	Time
Start 30.08	7:AM
Stop 29.90	5:PM

90% response time in seconds:

1 3 seconds

2 5 seconds

3 5 seconds

avg. 5 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): S 3m PH

Northing (UTM #)	Easting (10 T #)	Time	Comments
No	Exceedances	d	etected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10/22/25

Cal. Time: 6:30 AM

Calibration :

Technician: B.B.

Test Instrument used: SCM 5000

Surveyor P.S.

Cal. Gas Lot No: 500 PPM - 25-2809

Cal Gas Used: Zero Air - 4417902

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure	Time
Start 29.80	7:AM
Stop 29.96	5:PM

90% response time in seconds:

1 3 seconds

2 5 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: Partly cloudy

Wind Speed &

Direction (out of): SE 4mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO Exceedances		Detected	

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 10/22/25

Cal. Time: 7:10 AM

Technician: KORICH

Surveyor PS

Calibration :

Test Instrument used: 50328

Cal. Gas Lot No: 500 PPM-4910005 4-30-27
ZERO AIR-4917902 6-30-27

Cal Gas Used:

CH_4 500 PPM

O_2 ULTRA ZERO AIR

Barometric Pressure	Time
Start 29.79	7:10AM
Stop 29.90	2:00 pm

90% response time in seconds:

1 2.8 seconds

2 1.7 seconds

3 1.8 seconds

avg. 2.1 seconds

Weather Conditions: _____

Wind Speed &

Direction (out of): _____

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES
			(TOP DECK OF 5/
			AREA 6 SOUTH)

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills Variable 3

Date: 10-23-2025

Cal. Time: 7:15 AM

Calibration :

Technician: County

Test Instrument used: 5032 8 - Sem 5000

Surveyor PJ

Cal. Gas Lot No: CH4 - 25-2809 Air-4416902

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 30.00	7:30 AM
Stop 29.98	3:15 PM

90% response time in seconds:

1 2.75 seconds

2 2.25 seconds

3 2 seconds

avg. 2.33 seconds

Weather Conditions: Partly cloudy

Wind Speed & Direction (out of): 1 mph from SW

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No Exceedances Detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS FIXED TRAVERSE 2

Date: 10/30/25

Cal. Time: 6:45 AM

Technician: KORICH

Surveyor PJ

Calibration :

Test Instrument used: 50328

Cal. Gas Lot No: 500 - 4410005 4/30/27
ZERO AIR - 4917902 6/30/27

Cal Gas Used:

CH_4 500 PPM

O_2 ULTRA ZERO AIR

Barometric Pressure	Time
Start 30.12	7:00 AM
Stop 29.99	1:30 pm

90% response time in seconds:

1 2.8 seconds

2 1.9 seconds

3 1.7 seconds

avg. 2.13 seconds

Weather Conditions: Cloudy

Wind Speed & Direction (out of): 3 Mph S

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10-30-25

Cal. Time: 8:05 AM

Technician: GC

Surveyor PJ

Calibration :

Test Instrument used: SEM 50313

Cal. Gas Lot No: 4417902, 4427483

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 30.11	8:00 AM
Stop 29.99	3:50 P.M

90% response time in seconds:

1 4 seconds

2 4 seconds

3 3.5 seconds

avg. 3.833 seconds

Weather Conditions: Cloudy

Wind Speed &

Direction (out of): NE 5 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO exceedances.

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10-30-25

Cal. Time: 7:00 Am

Calibration :

Technician: BL

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: CH4- 25-2809 O2- 4417902

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure		Time
Start	30.11	8:00 Am
Stop	30.01	12:30 PM

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 3 mph E

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No Exceedances		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 10-31-25

Cal. Time: 10:48 AM

Technician: GC

Surveyor PJ

Calibration :

Test Instrument used: SEM 50313

Cal. Gas Lot No: 4417902, 4427483

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.92	10:45 AM
Stop 29.88	2:05 PM

90% response time in seconds:

1 5 seconds

2 4 seconds

3 4 seconds

avg. 4.333 seconds

Weather Conditions: Overcast

Wind Speed & Direction (out of): SW 2mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO exceedances

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills Variable Traverse 3

Date: 10-31-2025

Cal. Time: 6:40 AM

Calibration :

Technician: Conty

Test Instrument used: 19883 - SEM 5000

Surveyor PJ

Cal. Gas Lot No: CH4: 25-2909 Air- 4417902

Cal Gas Used:

CH_4 500PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 29.94	6:50 AM
Stop 29.86	3:00pm

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2.33 seconds

Weather Conditions: Partly cloudy No Rain

Wind Speed & Direction (out of): SW 3 mpH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			no exceedances detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11.3.25

Cal. Time: 7226

Calibration :

Technician: JF

Test Instrument used: Sem 5000

Surveyor PJ

Cal. Gas Lot No: 25-2504

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure	Time
Start 29.88	7:57
Stop 29.88	9:53

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: mostly cloudy, no precipitation

Wind Speed &

Direction (out of): E 4mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No Exceedances		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-3-25

Cal. Time: 7:30

Calibration :

Technician: CS

Test Instrument used: SEM- 5000

Surveyor PJ

Cal. Gas Lot No: 25- 2809

Cal Gas Used:

CH_4 500 PPM

O_2 ZERO AIR

Barometric Pressure	Time
Start 29.88	6:20 am
Stop 29.88	9:53 am

90% response time in seconds:

1 2 seconds

2 2 seconds

3 3 seconds

avg. 2 seconds

Weather Conditions: Mostly Cloudy

Wind Speed &

Direction (out of): E 4 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO EXEEDANCES			

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-6-25

Cal. Time: 12:30

Calibration :

Technician: CS

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 25-2809

Cal Gas Used:

CH_4 500 PPM

O_2 ZERO AIR

Barometric Pressure	Time
Start 29.89	1:30 PM
Stop 29.81	2:30 PM

90% response time in seconds:

1 3 seconds

2 2 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Mostly Cloudy

Wind Speed &

Direction (out of): NE 2mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO EXEEDANCES			

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 11/8/25

Cal. Time: 9:00 AM

Calibration :

Technician: AT

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4427483, 4417902

Cal Gas Used:

CH_4 500 PPM

O_2 ZERO AIR

Barometric Pressure	Time
Start 30.07	9:40 A
Stop	1:50 P

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3.33 seconds

Weather Conditions: SUNNY

Wind Speed &

Direction (out of): 5 MPH, EAST

Northing (UTM #)	Easting (10 T #)	Time	Comments
			NO EXCEEDANCES

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills Fixed Traverse 2

Date: 11-19-2025

Cal. Time: 6:50 AM

Technician: Couty

Surveyor PJ

Calibration :

Test Instrument used: 19883 - Sem 5000

Cal. Gas Lot No: CH4: 25-2809 Air-4/4/1902

Cal Gas Used:

CH_4 500 PPM

O_2 ultra zero Grade

Barometric Pressure	Time
Start 29.94	6:55 AM
Stop 29.75	2:10 PM

90% response time in seconds:

1 2.75 seconds

2 2 seconds

3 2 seconds

avg. 2.25 seconds

Weather Conditions: Clear Afternoon / Foggy Morning

Wind Speed & Direction (out of): 3 MPH NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
			no exceedances
			Detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-19-25

Cal. Time: 7:30 Am

Calibration :

Technician: BL

Test Instrument used: SEM 5000 - 50313

Surveyor PJ

Cal. Gas Lot No: 25-2809 4417902

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure		Time
Start	29.95	7:30 Am
Stop	29.75	3:15 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 3 mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
No Exeedances detected			

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11/20/25

Cal. Time: 9:15 AM

Technician: LM

Surveyor PJ

Calibration :

Test Instrument used: SEM5000 19883

Cal. Gas Lot No: O air 4417402

Cal Gas Used: 500 ppm 25-2809

CH_4 500 ppm

O_2 O air

Barometric Pressure	Time
Start 29.90	10:00 AM
Stop 29.99	3:00 PM

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: cloudy

Wind Speed & Direction (out of): SW 6 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
	No exceedances detected		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11/20/25

Cal. Time: 6:50 AM

Calibration :

Technician: B. B.

Test Instrument used: S.E.M. 5000

Surveyor P. J.

Cal. Gas Lot No: 500-25-2809

Cal Gas Used: Air-4417902

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure	Time
Start 29.90	7:AM
Stop 30.01	5:PM

90% response time in seconds:

1 3 seconds

2 5 seconds

3 5 seconds

avg. 5 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 4 MPH SW

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO Exceedences		detected	
	Stick UPS		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-21-25

Cal. Time: 9:50 A.M

Technician: GC

Surveyor PJ

Calibration :

Test Instrument used: SEM 19883

Cal. Gas Lot No: 4417902, 4427483

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 30.10	9:47AM
Stop 30.06	1:00 PM

90% response time in seconds:

1 5 seconds

2 4.5 seconds

3 4 seconds

avg. 4.5 seconds

Weather Conditions: Partly Cloudy & dry

Wind Speed & Direction (out of): SE 2 MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No exceedances detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-21-25

Cal. Time: 6:45 am

Technician: RH

Surveyor PJ

Calibration :

Test Instrument used: 5032δ sem 5000

Cal. Gas Lot No: CH4 4417902 Air 25-2809

Cal Gas Used:

CH_4 500 PPM ~~ultra zero grade~~

O_2 ultra zero grade

Barometric Pressure	Time
~~Start~~ 30.06	9:00 am
Stop 30.09	4:15 pm

90% response time in seconds:

1 3 seconds

2 2 seconds

3 3 seconds

avg. 2.66 seconds

Weather Conditions: Partialy cloudy

Wind Speed & Direction (out of): SE 2 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No Exceedences detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-22-25

Cal. Time: 9:25 a.m

Calibration :

Technician: GC

Test Instrument used: SEM 19883

Surveyor PJ

Cal. Gas Lot No: 4417902, 4427483

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 30.00	9:47 a.m
Stop 29.99	11:50 a.m

90% response time in seconds:

1 5 seconds

2 4 seconds

3 4 seconds

avg. 4.333 seconds

Weather Conditions: Partly Cloudy, Dry

Wind Speed & Direction (out of): SE 4mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No exceedances detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 11-22-25

Cal. Time: 12:30 pm

Calibration :

Technician: RH

Test Instrument used: 50328 SEM 5000

Surveyor PJ

Cal. Gas Lot No: 25-2809 Air / 4417902 CH4

Cal Gas Used:

CH_4 500 ppm

O_2 Zero grade ultra

Barometric Pressure	Time
Start 30.00	1:00 pm
Stop 29.98	3:45pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Overcast

Wind Speed &

Direction (out of): SE 3mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
			No Exceedences detected

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 12-3-2025

Cal. Time: 7:05 AM

Technician: Canty

Surveyor PJ

Calibration :

Test Instrument used: 19883-Sem 5000

Cal. Gas Lot No: CH4: 25-2809 Air-4417902

Cal Gas Used:

CH_4 500 PPM

O_2 Ultra Zero Grade

Barometric Pressure	Time
Start 30.19	7:30 AM
Stop 30.17	2:15 pm

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2.33 seconds

Weather Conditions: Overcast, no rain.

Wind Speed & Direction (out of): 3 mph SE

Northing (UTM #)	Easting (10 T #)	Time	Comments
			no exceedances

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 12-13-25

Cal. Time: 9:42 am

Technician: RH

Surveyor PJ

Calibration :

Test Instrument used: 19883

Cal. Gas Lot No: 25-2809, 4417902

Cal Gas Used:

CH_4 500 ppm

O_2 Ultra zero grade

4417902

Barometric Pressure	Time
Start 29.91	9:30 am
Stop 29.88	12:45 pm

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3.33 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 1 mph SE

Northing (UTM #)	Easting (10 T #)	Time	Comments
			no Exceedences

KCSW H2S Active Face Monitoring

Landfill Site: Cedar hills

Date: 1-21-25

Technician: CG

Instrument: Jerome

Surveyor PS

Weather Conditions: Cloudy Drizzle

Wind Speed & Direction (out of): S 6mph

Barometric Pressure	Time
Start 30.03	12:30 PM
Stop 30.03	2:30 PM

Northing (UTM #)	Easting (10 T #)	Time	Comments
	NO EXEEDANCES		

Landfill Site: Cedar Hills

Date: 12-13-25

Componet Monitoring

Cal. Time: 9:42 am

Calibration :

Technician: RH

Test Instrument used: 19883

Surveyor PJ

Cal. Gas Lot No: 25-2809, 4417902

Cal Gas Used:

CH_4	500 ppm
O_2	Ultra zero grade

Barometric Pressure	Time
Start 29.84	4:00 pm
Stop 29.83	4:45 pm

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3.33 seconds

Weather Conditions: mostly cloudy

Wind Speed &

Direction (out of): 1 mph SE

Location	Reading	Comments
Blower 1	2.2	no exceedences
Blower 2	2.3	
Blower 3	2.2	
Blower 4	2.2	
Blower 5	2.3	
Flare 1	2.2	
Flare 2	2.1	
Flare 3	2.2	
Flare 4	2.5	
Flare 5	31.8	
Flare Inlet Plenum	2.6	
Turn Down Flare	2.5	
Low BTU Flare (Migration)	2.4	

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

TECHNICIAN COPY

WO#: 0000031991
Date In: 10/10/2025 13:07
Date Promised: 10/11/2025 13:07
Date Out: 00:00
WO Status: A Last WO#:0000031924
WO Priority: Last WO Date: 08/19/2025
Track DownTime: Y Employee:

Equipment: cedar hills License: na

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

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

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

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2026	Annual Inspection
Q	0 - MONTHS	12/30/2025	Quarterly Inspection
S	0 - MONTHS	01/15/2025	Scheduled Inspection
X	0 - MONTHS	10/10/2025	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Parts List

Repair Code:
Equipment: cedar hills
Work Order: 0000031991

NO PART LIST FOR WORK ORDER REPAIR(S) AT THIS TIME.

Work Order Task List

Repair Code: PMQ BS
Equipment: cedar hills
Work Order: 0000031991

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

10-9-2025 - CC - 6.5 Hours
10-7-2025 - CC - 8.5 Hours
10-10-2025 - GC - 8 hours

10-8-25 RK 3.5 hrs
10-8-25 RK 6 hrs

10.03.25 AT 3 HRS.
10.04.25 AT 3.5 HRS.
10-15-25 - CC - 7.5 Hours
10-6-25 - LM - 6 hours
10-14-25 - LM - 7 hours
10-08-25 BB 0 hrs
10-21-25 BB 8 hrs
10-22-25 BB 4 hrs
10-22-25 RK 7 hrs.
10-28-25 BB 1 hr
10-23-25 CC 7.5 Hours
10-31-2025 CC 8 Hours

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

TECHNICIAN COPY

WO#: 0000031991
Date In: 10/10/2025 13:07
Date Promised: 10/11/2025 13:07
Date Out: 00:00
WO Status: A Last WO#:0000031991
WO Priority: Last WO Date: 10/10/2025
Track DownTime: Y Employee:

Equipment: Cedar Hills License: na

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

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

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

Comments:
Cedar Hills

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2026	Annual Inspection
Q	0 - MONTHS	12/30/2025	Quarterly Inspection
S	0 - MONTHS	07/15/2025	Scheduled Inspection
X	0 - MONTHS	11/10/2025	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Parts List

Repair Code:
Equipment: Cedar Hills
Work Order: 0000031991

NO PART LIST FOR WORK ORDER REPAIR(S) AT THIS TIME.

Work Order Task List

Repair Code: PMQ BS
Equipment: Cedar Hills
Work Order: 0000031991

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

11-3-25 2HR SP
11-3-25 2 hrs. CS
11/20/25 5 hrs. LM
11/20/25 8hrs BB
11-19-25 7.5 Hours - CC
11-4-25 1 hour CS

11-8-25 4 hrs AT
11-19-25 7hr45m BL
11-21-25 3hr15m GC
11-21-25 7.25 hr RM
11-22-25 3.25hr RH
11-22-25 2hr GC

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

TECHNICIAN COPY

WO#: 0000031991
Date In: 10/10/2025 13:07
Date Promised: 10/11/2025 13:07
Date Out: 00:00
WO Status: A Last WO#:0000031991
WO Priority: Last WO Date: 10/10/2025
Track DownTime: Y Employee:

Equipment: Cedar Hills License: na

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

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

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

Comments:
Cedar Hills

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2026	Annual Inspection
Q	0 - MONTHS	12/30/2025	Quarterly Inspection
S	0 - MONTHS	07/15/2025	Scheduled Inspection
X	0 - MONTHS	11/10/2025	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

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

NOTES

Work Order Parts List

Repair Code:
Equipment: Cedar Hills
Work Order: 0000031991

NO PART LIST FOR WORK ORDER REPAIR(S) AT THIS TIME.

Work Order Task List

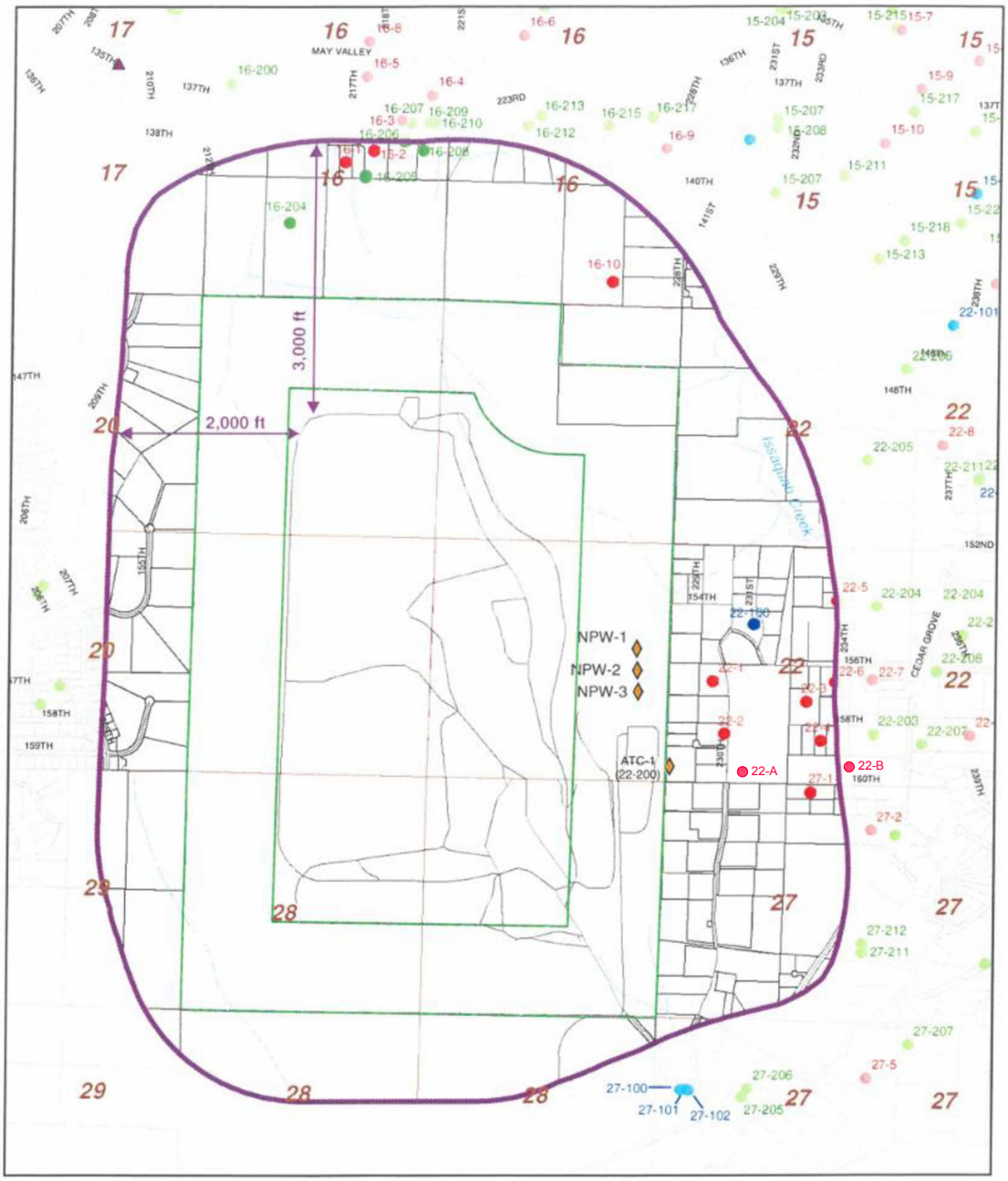
Repair Code: PMQ BS
Equipment: Cedar Hills
Work Order: 0000031991

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

12-3-2025 - CC - 7 Hours
12-13-2025 - RH - 7 hours

APPENDIX J

Domestic Well Survey



		King County	**Domestic Well Survey** Cedar Hills Regional Landfill	Figure **J-1** Date

Table J-1. Drinking Water Supply Wells Within or Potentially Within Inventory Area

Map ID	Section[a]	Parcel(s)	Owner Name on Well Log	Purveyor	Associated Water Right or Claim (if known)	Drilled Depth (feet)	Well Intake Depth (feet)	Original Static Water Level (feet below top of well)	Well Site Address	Notes[b]
16-1	16	162306-9019	Charles Brockman	Brockman, C.	Not identified	35	25-35	12	13907 217th Ave SE	Class B Water Supply. Street address: 13907 217TH Ave S.E; Well location: NE¼ of SW¼, E270' of W405'of W1/2; apparently unrelated to Claim G1-010578CL; serves parcels 162306-9019, 162306-9061, 162306-9047
16-2, 16-205	16	162306-9061	Noah Johnston	Johnston, Noah	Not identified	161	161	Illegible	13921 217th Ave SE	Class B Water Supply. Two well logs are on file; the shallow (64-foot-depth) well under "Noah Johnson" is not reported as in use in Health files. The source well location is likely shown as 16-2.
16-10	16	162306-9059	Jim Peek	Glenn Dutro; Peek Water System	Not identified	260	258	246' 8"	14237 228th SE	Well location: SE¼ of SE¼ of Section 16; (second log filed in 1993 located well in SW¼ of SE¼ of Section 16). Also identified as OS-4.
16-204	16	162306-9011 or 162306-9086	Getty Oil	Not identified	Not identified	343	343	None on Log	None on log	The log describes the well location as the SW¼ of SW¼ of Section 16. Log is for Owner's well #2.
16-208	16	162306-9023	Roger Childs	Not identified	Not identified	60	60	20	13808 219th Ave SE	Well log not previously identified
ATC-1 (22-200)	22	212306-9016	King County	WA ST DNR	G1-00049 C	535.0	325-340	319.0	15900 227th Ave SE	Note: depth to water is incorrectly noted as 219' on original driller's log.
22-1	22	222306-9085	David Ammon	Ammon/ Tiger Vista	Not identified	290	276.6-281.6	250	24617 SE 165th St	Serves parcels: 222306-9085, 222306-9145, 222306-9146, 222306-9147
22-2	22	222306-9130	Dick W. Miller	Rosalie Griffin; Miller Addition	Not identified	405	400	327	22916 SE 159th St	Also identified as OS-2.
22-3	22	222306-9065	No log	Brian Jones	Not identified	No Log	No Log	No Log	No log	Street address: 23220 SE 158th St; property originally owned by Ervin Sneva.
22-4	22	222306-9093	No log	Sneva #2	Not identified	No Log	No Log	No Log	No log	Street address: 23317 SE 158th St. Property previously owned by Ryan Batura, who is also associated with the Tiger Vista water system.
22-5	22	222306-9103	John Garrison	Garrison	Not identified	179	179	74	15321 234th Ave SE	
22-6	22	222306-9066	No log	Royce Nourigat; Nourigat Water	Not identified	No Log	No Log	No Log	23227 SE 156th St	
22-100	22	222306-9119	Ron A. Stanley	Green Acres Water Association	G1-21849 C	160	155-160	44	15414 230th Ave SE	Property owner Velma Sills, well co-owned by Ron A. Stanley and Charles Billington, water system reportedly originally operated by Ron A. Stanley and Charles Billington. Well address reported on log as 15310 230th Ave SE but map shows actual location.
22-A	22	222306-9062	Darcy Teets	Not identified	Not identified	330	330	280	15920 230th Ave SE	Well location: SE¼ of SW¼ of section 22 and within inventory area. Not identified in previous reports. Address on log: 15820 230th Ave SE.
22-B	22	222306-9048	Arnie Schumacher	Not identified	Not identified	180	179	149	15919 Cedar Grove Rd SE	Well location: SE¼ of SW¼ of section 22; therefore, potentially within inventory area. Not identified in previous reports.
27-1	27	272306-9045	No log	John Dinius	Not identified	No Log	No Log	No Log	23318 SE 160th PL	

Table Notes:

[a] All locations are within Township 23N Range 6E of the Willamette Meridian and are identified as located in this section by Ecology's online Well Report Search application.

[b] Section location notation is read as follows: NE¼ of NW¼ is the northeastern quarter of the northwestern quarter of the associated section.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy 23/6E/16/L

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 23106-16L
Permit No. .....

(1) OWNER: Name Charles Brockman Address 21729 S.E. May Valley Rd, Issaquah, 98027

(2) LOCATION OF WELL: County King, E270' of W 405' of W½ — NE ¼ SW ¼ Sec. 16 T. 23 N., R. 6 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 35 ft. Depth of completed well 35 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 35 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☒ No ☐
Type of perforator used torch
SIZE of perforations 1/8 in. by 3 in.
25 perforations from 25 ft. to 35 ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal puddling clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 12 ft. below top of well Date 4/12/74
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test 25 gal./min. with NO ft. drawdown after 1/4 hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Brown Hardpan	0	16
Hardpacked Brown gravel	16	21
Water Sand & Gravel	21	33
Hardpacked Brown gravel	33	35

Work started 4/10, 19 74 Completed 4/12, 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Johnson Drilling Co, Inc.
(Person, firm, or corporation) (Type or print)

Address 19415 108 Ave SE Renton

[Signed] Brad Johnson
(Well Driller)

License No. 0233 Date 4/15, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

23/06-16L

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name Noah Johnston Address 13910 21st S.E., Issaquah, Wash.

(2) **LOCATION OF WELL:** County King W 1/2 of NE 1/4 SW 1/4 Sec. 16 T. 23 N., R. 6 E. W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 161 ft. Depth of completed well 161 ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 6" Diam. from 0 ft. to 161 ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☒ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☐ No ☒
Type of perforator used ....
SIZE of perforations ... in. by ... in.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ....
Type ... Model No. ....
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ....
Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal puddling clay
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ... Depth of strata ....
Method of sealing strata off ....

(7) **PUMP:** Manufacturer's Name ....
Type: ... H.P. ....

(8) **WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level 50 ft. below top of well Date 8-7-84
Artesian pressure ... lbs. per square inch Date ....
Artesian water is controlled by ... (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? ....
Yield: 45 gal./min. with 67 ft. drawdown after 1½ hrs.
" " " " " "
" " Air Jet " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....
Bailer test ... gal./min. with ... ft. drawdown after ... hrs.
Artesian flow ... g.p.m. Date ....
Temperature of water .... Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Surface	0	3
brown silty clay	3	21
brown gravelly clay	21	45
[illegible]	45	55
brown sandy gravel	55	65
[illegible] clay	65	70
[illegible] sandy gravel	70	97
[illegible]	97	106
clay	106	125
[illegible] gravel	125	147
[illegible]	147	161
[illegible] sandy gravel	161	161

RECEIVED
AUG 15 1984
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started 8-1, 19 84 Completed 8-7, 19 84

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME [illegible] Drilling Co., Inc.
(Person, firm, or corporation) (Type or print)

Address 19445 108th Ave SE Renton 98055

[Signed] Brad Johnson
(Well driller)

License No. 0233 Date 8-7, 19 84

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

23/06-16L Application No. .....

Permit No. .....

(1) OWNER: Name Noah Johnson Address 21715 S.E. 144th Valley Road - Issaquah, Wn

(2) LOCATION OF WELL: County King - Ehlers 74' E. of NE Cor. of NE¼ SW¼ Sec. 16 T. 23 N., R. 6 E W.M.

Bearing and distance from section or subdivision corner NE¼ of SW¼

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☑ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 64 ft. Depth of completed well 64 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..." Diam. from ... ft. to ... ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☑ 6" Diam. from +1 ft. to 59 ft.

Perforations: Yes ☐ No ☑
Type of perforator used .....
SIZE of perforations ... in. by ... in.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.
... perforations from ... ft. to ... ft.

Screens: Yes ☑ No ☐ With 3 FT Riser
Manufacturer's Name Johnson
Type ... Model No. ...
Diam. 6 Slot size 20 from 59 ft. to 64 ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☑ Size of gravel: ...
Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ... Depth of strata ...
Method of sealing strata off ...

(7) PUMP: Manufacturer's Name ...
Type: ... H.P. ...

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 35 ft. below top of well Date ...
Artesian pressure ... lbs. per square inch Date ...
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? ...
Yield: ... gal./min. with ... ft. drawdown after ... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ...
Bailer test 20 gal./min. with 10 ft. drawdown after 1 hrs.
Artesian flow ... g.p.m. Date ...
Temperature of water ... Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Large Cobbles 3" to 6"		
Loose Sediment	0	14
Compact gr. & Sd	14	45
Brown clay gr.	45	49
Sand & gr. Water		
Hard drive	49	64
Bulk of water in sand seam & sand gr	60	64
We feel that this is considerable iron in the water		

Work started 12-29, 19 76 Completed 12-31, 19 76

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. J Burgas Watts

NAME H.D. Meyer Well Co.
(Person, firm, or corporation) (Type or print)

Address 6424 Lake Ave. W. Mail: P.O. Box 1 Kirkland Wash

[Signed] H.D. Meyer
(Well Driller)

License No. 0308 Date 12-31, 19 76

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

RECEIVED
JAN 4
DEPT. OF ECOLOGY
REGIONAL OFFICE
REDMOND, WA. 98052

23/06/16R

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name James Peek Address Home: 9612 NE 121st Kirkland Wa.

(2) **LOCATION OF WELL:** County King — SE ¼ SE ¼ Sec. 16 T. 23 N., R6E W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.
Drilled 258 ft. Depth of completed well 258 ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 6 " Diam. from +2 ft. to 258 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) **PUMP:** Manufacturer's Name Flint & Walling
Type: Submersible H.P. 1

(8) **WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level 246' 8" ft. below top of well Date 7/18/86
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test 8 gal./min. with 8 ft. drawdown after 2 hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Gravel: brown, dry, large cobbles	0	6
Clay: brown, very gravelly	6	25
Gravel: brown, dry	25	175
Sand: orange, dry	175	185
Gravel: brown, dry	185	210
Gravel: orange/ brown dry	210	212
Gravel: green/ brown dry	212	256
Gravel: brown, with water	256	258
Gravel: brown, tight, no water	258	260

RECEIVED
DEC 31 1986
DEPARTMENT OF ECOLOGY
NORTHWEST REGION

Work started Aug. 14, 1985 Completed July 18, 1986

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Cable Tool Well Drilling Comp.
(Person, firm, or corporation) (Type or print)

Address 5716 17th Ave NE Seattle Wa. 98105

[Signed] .....
(Well Driller)

License No. 0852 Date Sept. 25, 1986

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

23/06-16N

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Getty Oil Address May Valley Rd. Issaquah

(2) LOCATION OF WELL: County King — SW ¼ SW ¼ Sec. 16 T. 23 N., R. 6E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 – 6 inches.
Drilled 343 ft. Depth of completed well 343 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from +1 ft. to 200 ft.
Threaded ☐ 6 " Diam. from +2 ft. to 324 ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Puddeling Clay
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 0 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Clean brown gravel - little water at 40'	0	42
Brown gravel, sand, & clay	42	54
Brown sand, gravel, & clay	54	62
Brown gravel, sand, & clay	62	75
Gray clay & wood	75	93
Gray clay	93	96
Gray sand & water	96	97½
Gray gravel & dry sand	97½	110
Gray sand, gravel, & water	110	112
Gray gravel, sand, & water	112	123
Gray clay & gravel	123	130
Gray sand & wood - little bit of clay	130	134
Gray clay & wood	134	137
Fine gray silty sand & seepage	137	144
Gray clay	144	144½
Gray clay & wood	144½	156
Gray sand, wood, & water	156	194
Gray gravel, sand, & water	194	207
Gray clay & wood	207	219
Gray gravel & water	219	222
Gray clay & wood	222	224
Gray gravel & water	224	294
Gray sand & water	294	297
Gray gravel, sand, & water	297	312
Gray sand, gravel, & water	312	

RECEIVED
MAY 19 1983
DEPT. OF ECOLOGY

Work started 4/9 19 83 Completed 4/11 19 83

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Hayes Well Drilling & Pumps, Inc.
(Person, firm, or corporation) (Type or print)

Address 1413 Colony Rd. Bow

[Signed] Steve Gilbert
(Well Driller)

License No. 762 Date 6/28, 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's copy

108759

WATER WELL REPORT

STATE OF WASHINGTON

Notice of Intent W156045
UNIQUE WELL I D # AGT241
Water Right Permit No 23-6E-162

(1) OWNER: Name Roger Childs Co., Inc. Address 2411 170th Place SE, Bellevue, WA 98008

(2) LOCATION OF WELL: County King - NE 1/4 SW 1/4 Sec 16 T 23 N,R 6E WM

(2a) STREET ADDRESS OF WELL (or nearest address) 13808 219th Ave. SE

TAX PARCEL NO. 1623069023

(3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

(4) TYPE OF WORK: Owner's number of well (If more than one) ____
[X] New Well Method
[ ] Deepened [ ] Dug [ ] Bored
[ ] Reconditioned [ ] Cable [ ] Driven
[ ] Decommission [X] Rotary [ ] Jetted

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 60 feet Depth of completed well 60 ft

(6) CONSTRUCTION DETAILS:
Casing Installed:
[X] Welded 6 " Diam from +1.5 ft to 60 ft
[ ] Liner installed ____ " Diam from ____ ft to ____ ft
[ ] Threaded ____ " Diam from ____ ft to ____ ft

Perforations: [ ] Yes [X] No
Type of perforator used ____
SIZE of perforations ____ in by ____ in
____ perforations from ____ ft to ____ ft
____ perforations from ____ ft to ____ ft
____ perforations from ____ ft to ____ ft

Screens: [ ] Yes [X] No [ ] K-Pac Location ____
Manufacturer's Name ____
Type ____ Model No ____
Diam ____ Slot size ____ from ____ ft to ____ ft
Diam ____ Slot size ____ from ____ ft to ____ ft

Gravel/Filter packed: [ ] Yes [X] No [ ] Size of gravel/sand ____
Material placed from ____ ft to ____ ft

Surface seal: [X] Yes [ ] No To what depth? 18 ft
Material used in seal Bentonite Chips
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? ____ Depth of strata ____
Method of sealing strata off ____

(7) PUMP: Manufacturer's Name ____
Type ____ H P ____

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft
Static level 20 ft below top of well Date 2/4/2002
Artesian pressure ____ lbs per square inch Date ____
Artesian water is controlled by ____ (Cap, valve, etc)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom? ____
Yield ____ gal /min with ____ ft drawdown after ____ hrs
Yield ____ gal /min with ____ ft drawdown after ____ hrs
Yield ____ gal /min with ____ ft drawdown after ____ hrs

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ____
Bailer test ____ gal /min with ____ ft drawdown after ____ hrs
Airtest 30 gal /min with stem set at 58 ft for 1 hrs
Artesian flow ____ g p m Date ____
Temperature of water ____ Was a chemical analyses made? [ ] Yes [X] No

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION:
Formation Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information Indicate all water encountered

MATERIAL	FROM	TO
Light Brown Clay	0	8
Lt Brn Coarse Gravel Sand Clay Wet	8	30
Gray Sand Gravel Brown Silt Damp	30	35
Gray Sand Gravel Brown Silt Some Water	35	47
Gray Silty Sand Some Water	47	52
Brown Coarse Gravel Sand Silt Water	52	60
TPD File # 02-805-1		

RECEIVED
FEB 07 2002
DEPT OF ECOLOGY

Work Started 2/4/2002 , 19 Completed 2/4/2002 , 19

WELL CONSTRUCTION CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards Materials used and the information reported above are true to my best knowledge and belief

Type or Print Name Mark Wiese License No 2432
(Licensed Driller/Engineer)
Trainee Name ____ License No ____
Drilling Company Tacoma Pump & Drilling Co., Inc.
(Signed) Mark Wiese License No 2432
(Licensed Driller/Engineer)
Address 30316 Mountain Highway Graham, WA 98338
Contractor's Registration No TACOMPD203PF Date 2/5/2002 , 19

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer For special accommodation needs, contact the Water Resources Program at (360) 407-6600 The TDD number is (360) 407-6006

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

App. 12070

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

Per. G1-00049P

WELL LOG

Record by Driller
Source well report

Location State of WASHINGTON
County King
Area
Map

SE SE¼ SE¼ sec 21 T 23N R 6 E W

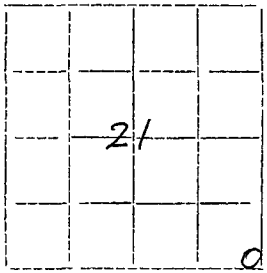


Diagram of Section

Drilling Co Richardson Well Drilling Co., Inc.
Address P.O. Box 44408, Tacoma, Wash.
Method of Drilling Cable Date 2/11/ 1972
Owner King County
Address 900 King County Admin. Bldg.
Land surface datum ft above / below
SWL 219 Date 2/7/ 1972 Dims 8"X 453'

CORRELATION	MATERIAL	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary in parenthesis If material water bearing so state and record static level if reported Give depths in feet below land surface datum unless otherwise indicated Correlate with stratigraphic column if feasible Following log of materials list all casings perforations screens etc.)		
	Irrigation (new well)		
	Top soil	0	2
	Clay, yellow + boulders	2	19
	Hardpan, blue + boulders	19	57
	Hardpan, yellow, boulders	57	128
	Sand yellow + gravel	128	168
	Hardpan, yellow	168	220
	Clay, gray + gravel	220	280
	Hardpan, blue	280	315
	Hardpan, green	315	330
	Sand, fine and coarse gravel, (water bearing)	330	332
	Hardpan, yellow	332	341
	Clay, blue, gravel	341	357
	Hardpan, blue	357	363
	Clay, blue, gravel, wood	363	375

Turn up Sheet of sheets

Ecology does NOT Warranty the Data and/or the Information on this Well Report.

WELL LOG —Continued No / -

CORRELATION	MATERIAL	From (feet)	To (feet)
	Depth forward	———	
	Clay, blue & gravel	375	396
	Hardpan	396	407
	Sand, hard packed, gravel & clay, green.	407	455
	Clay, blue	455	535
	Work started 10/11/71 Completed 2/11/72		
	Casing installed: 8" diam from 0' to 453', welded.		
	Perforations: Mills Knife; 3/16" by 1½", 6 per round every 6" from 325' to 340'.		
	No screens, gravel pack or surface seal.		
	Pump: Jacuzzi, Sub, 7½ H.P.		
	Well tests: by driller, yeild 127 g.p.m. w/100' d.d. after 10 Hrs. Feb 7 1972.		
	Water temp: 10°c		

S F No 7449—OS—12 65

of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File: Orig. & First Copy - Dept of Ecology | WATER WELL REPORT | Start Card No. W 066209
Second Copy - Owner; Third Copy - Driller | State of Washington | Unique Well ID 1
Water Right Permit No.

ENTERED

RECEIVED DEC 29 1995 DEPT. OF ECOLOGY

(1) OWNER: Name DAVID AMMON Address 24617 SE 165TH ST ISSAQUAH WA 98027 Page 1 of
(2) LOCATION OF WELL: County KING SW 1/4 SW 1/4 Sec 22 T 23 N R 6 E
(2a) STREET ADDRESS OF WELL (or nearest address) WA 23-6E-22N

(3) PROPOSED USE: DOMESTIC
(4) Type of work: NEW WELL
Method: ROTARY

(5) DIMENSIONS: Diameter of well 06 inches.
Drilled 290 feet. Depth of completed well 284 ft.

(6) CONSTRUCTION DETAILS:
Casing instld: 06 " Diam. from 0 ft. to 276.6 ft.
Welded X " Diam. from ft. to ft.
Liner _ " Diam. from ft. to ft.
Threaded _

Perforations: Yes _ No X
Type of perforator used
Size of perforations in. by in.
perforations from ft. to in.
perforations from ft. to in.
perforations from ft. to in.

Screens: Yes X No _
Manufacturer's Name JOHNSON
Type STAINLESS Model No
Diam 06 Slot size 14 from 276.6 ft. to 281.6 ft.
Diam Slot size from ft. to ft.

Gravel packed: Yes _ No X Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes X No _ To what depth? 20 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes _ No X
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type H.P. 0

(8) WATER LEVELS: Surface elev above mean sea level ft.
Static level 250 ft. below top of well Date 09/13/95
Artesian pressure lbs. per sq. in. Date
Artesian pressure is controlled by

(9) WELL TESTS: Pump test made? YES By whom? JIM
Yield 14 gal./min. with 0 ft. drawdown after 4 hrs
Yield 0 gal./min. with ft. drawdown after hrs
Yield 0 gal./min. with ft. drawdown after hrs
Recovery data:

Time	Wtr. Lvl.	Time	Wtr. Lvl.	Time	Wtr. Lvl.
3:15	270	3:20	258	3:30	250

Date of test 09/19/95
Bailer test 0 gal/min with ft. drawdown after hr
Airtest 0 gal/min with stem set at ft. for hrs
Artesian flow 0 gal/min Date
Temperature of water Was chemical analysis made? NO

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION

Material	From	To
SAND AND COBBLES	0	5
HARDPAN	5	20
GRAVEL , SAND, SILT	20	160
BROWN, GREY CLAY	160	165
GRAVEL, SAND SILT	165	180
SILT, SAND, ALITTLE CLAY	180	214
GREY CLAY	214	219
GRAVEL, SAND, SILT	219	260
GRAVEL, SAND, SILT SEEPAGE	260	272
GRAVEL, SAND SILT 6GPM WATER	272	277
GRAVEL, SAND, SILT 8 GPM WATER	277	282
GRAVEL, SAND, CLAY	282	284
WOOD, CLAY	284	290

RECEIVED DEC 26 1995 DEPT. OF ECOLOGY

Work Started 09/08/95 Completed 09/13/95

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction this well, and its compliance with all Washington well construction standards. Materials used and the information report above are true to my best knowledge and belief.
Name RICHARDSON WELL DRILLING
Address P.O. Box 44427 Tacoma WA 98444

(Signed) Ronald E Jones Lic. No 1547
(Well Driller)
Contractor's Registration No. RICHAW*3210B Date 09/22/
Based on form ECL 050-1-20 (2/93)**f-1329- by Speed Systems Co

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 23/06 - 22 N

Permit No.

(1) OWNER: Name Dick W. Miller Address 16321 2nd Ave. S.E. Bellevue, Wa. 98008

(2) LOCATION OF WELL: County King — SW ¼ SW ¼ Sec. 22 T. 23 N., R. 6E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 405 ft. Depth of completed well 405 400 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from ft. to ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Jacuzzi Bros.
Type: 5S4D H.P. 5

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 327 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Driller
Yield: 40 gal./min. with 13 ft. drawdown after 4 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 8-5-76
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top soil & gravel	0	1
Clay & gravel	1	5
Hardpan & boulders	5	58
Gravel, clay & some seapage	58	80
Hardpan & boulder	80	154
Clay, gravel & boulders	154	187
Sand & clay	187	204
Sand & dry gravel	204	227
Yellow Hardpan	227	238
Clay & gravel	238	312
Hardpan & boulders	312	338
A little water, clay & gravel	338	340
Yellow Hardpan	340	368
A little water & gray Hardpan	368	370
Gray Hardpan	370	378
Yellow Hardpan & boulders	378	405

Work started 6-10, 19 76 Completed 6-16, 19 76

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44408 Tacoma, Wa. 98444

[Signed] (Well Driller)

License No. 223-02-6500 Date 10-13, 19 76

(USE ADDITIONAL SHEETS IF NECESSARY)

9356—OS—(Rev. 4-71).

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. 23/06 -- 22 L
Permit No.

(1) OWNER: Name John Garrison Address 35 NE Dogwood Issaq wa 98027

(2) LOCATION OF WELL: County King — NE ¼ SW ¼ Sec. 22 T. 23 N., R. 6 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one)
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [X] Driven [ ]
Reconditioned [ ] Rotary [ ] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 179 ft. Depth of completed well 179' ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from +1 ft. to 179 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [X] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [X] No [ ]
Manufacturer's Name Smith
Type 55 Model No.
Diam. 6 Slot size 14 from 179 ft. to 174 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel: /
Gravel placed from / ft. to / ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name / H.P. /
Type:

(8) WATER LEVELS: Land-surface elevation above mean sea level 260 ft.
Static level 74 ft. below top of well Date 12/77
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 12 gal./min. with 0 ft. drawdown after 1 hrs.
Artesian flow g.p.m. Date
Temperature of water / Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Dark brown Top soil	0	4
light. Brown clay Sand	4	29
Gray clay	29	84
Gray silt. Gravel Heaving water	84	92
Gray clay	92	93
Gray Sand clay Gravel Heaving	93	101
Gray clay some sand / Gravel	101	135
Black Fine sand silt water Heaving	135	148
Gray sand clay Heaving water	148	165
Sand clay Gravel water	165	179

Work started Nov 9, 1977 Completed Dec 13, 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME B & J Drilling CO (Person, firm, or corporation) (Type or print) 98126
Address 9026 38TH AVE S.W. Seattle
[Signed] D. L. Cannon (Well Driller)
License No. 0071 Date 12/15, 1977

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. N/A.

UNIQUE WELL I.D. #

Water Right Permit No.

MNGR Velma Sills - 392-3779

23-6E-22M

(1) OWNER: Name RON STANLEY Address 15313 - 230th Ave SE. Issaquah

(2) LOCATION OF WELL: County KING NW 1/4 SW 1/4 Sec 22 T. 23 N., R 6E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) SE 156th St & 230th AV SE. Issq. 98027

(3) PROPOSED USE: Community Sy. ☐ Domestic ☐ Irrigation ☐ DeWater ☐ Industrial ☐ Municipal ☐ Test Well ☐ Other ☒

(4) TYPE OF WORK: Owner's number of well (if more than one)

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☒ Rotary ☐ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches. Drilled 160 feet. Depth of completed well 160' ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 159 ft.
Welded ☐ Liner installed ☐ Threaded ☐ " Diam. from ft. to ft.
" Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name Cook
Type SS. Model No.
Diam. 6 Slot size 14 from 160' ft. to 155' ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18' ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Goulds
Type: Sub. H.P. 5

(8) WATER LEVELS: Land-surface elevation above mean sea level 175 ± ft.
Static level 44 ft. below top of well Date Oct 5 93
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 25' gal./min. with 0 ft. drawdown after 1 hrs.
Airtest gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Brown Clay sand gravel soft.	0	12
Brown Clay gravel sand Rock cmtd	12	16
Brown cemented clay Rocks gravel	16	20
(Bolder)	(19')	
Light Brown Clay sand gravel cemtd	20'	28
(Bolder)	(28)	
Lt. Brown Clay sand gravel Rock cemtd	28'	38'
Red Clay sand. soft.	38	55
Brown Clay sand gravel cemtd	55	81
gray clay gravel sand open hole	81	98
Gray Clay sand Dry Sm. Hard.	98	105
Brown Clay sand gravel Cemtd	105	145
Light Brown Clay gravel Rocks	145	149
Brown Clay sand gravel Rock Trace water	149	151
Gravel sand (water)	151	155
Large sand gravel (Water)	155	160

RECEIVED
MAY 21 1996
DEPT. OF ECOLOGY

Work Started Sept 10 1993 Completed Oct 9 19 93

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME B & J Drilling Co 392-3826 (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 9026 38th AV. SW. Seattle

(Signed) (WELL DRILLER) License No. 0071

Contractor's Registration No. 088 DT Date May 6 19 94

(USE ADDITIONAL SHEETS IF NECESSARY)

ECL 050-1-20 (2/93)

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNIQUE WELL I.D. NUMBER AB560L
X Y Z 1 2 3

WELL TAGGING FORM

Date of Field Visit 9-29-94 By Michael Cook

ADDITIONAL WELL IDENTIFIERS

Department of Health System ID Number 296559 Source Number SO 01

USGS Site Identification _____

RECORD VERIFICATION

- ☐ Well Report available *(please attach)*
- ☐ Well Report not available
- ☐ Verification inconclusive

Velma Sills (manager)
15313 230th Ave SE
Issaquah, WA 98027

WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT

Name _____

Street address _____

City _____ State _____

LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT

Well Address 15310 230th Ave. SE.

City Issaquah WA 98027 County King

T. 23 N. R. 06 E WM. Sec. 22 NW ¼ of the SW ¼

Latitude _____ ° _____ ' _____ "

Longitude _____ ° _____ ' _____ "

- ☐ GPS (raw data)
- ☐ GPS (corrected)
- ☐ Topographic Map
- ☐ Survey
- ☐ Computer generated
- ☐ Other _____

Elevation at land surface _____ feet/meters *(circle one)*

- ☐ Digital Altimeter
- ☐ Topographic Map
- ☐ Other _____

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Additional information, if available:

☐ Location marked on topographic map *(please attach)*

☐ Location marked on air photo *(please attach)*

Water Right # _____ Priority Date _____

Circle one: Application (Permit) Certificate Claim Exempt

WELL CHARACTERISTICS

Physical Description of Well (size of casing, type of well, housing, etc.): _____

Casing 6" - 160'

Location of Well Identification Tag: well head

Was Supplemental Tag needed for ease of identifying well?

☒ NO ☐ YES

If yes, where was tag placed? _____

Scale 1:24,000 (1"=2,000')

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Indicate the location of the well within the Section by drawing a dot at that point.

SECTION _____

COMMENTS: _____

Please attach this form to the Well Report and submit it to the Department of Ecology Water Resources Program Headquarters, Well Identification Program, P O. Box 47600, Olympia, WA 98504-7600

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No N/A

UNIQUE WELL I D #

Water Right Permit No

MNGR Velma Sills - 392-3779

(1) OWNER: Name Ron Stanley Address 15313 - 230th Ave SE Issaquah

(2) LOCATION OF WELL County King NW 1/4 NW 1/4 Sec 22 T 23 N R 6 E WM

(2a) STREET ADDRESS OF WELL (or nearest address) SE 15th St & 230th Ave SE Issaquah 98027

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☒ Irrigation ☐ Test Well ☐ Other ☐ DeWater Community Sy

(4) TYPE OF WORK: Owner's number of well (if more than one)
Abandoned ☐ New well ☒ Method Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 160 feet Depth of completed well 160' ft

(6) CONSTRUCTION DETAILS
Casing Installed 6" Diam from +1 ft to 159 ft
Welded ☐ Diam from ft to ft
Liner Installed ☐ Diam from ft to ft
Threaded ☐

Perforations Yes ☐ No ☒
Type of perforator used
SIZE of perforations in by in
perforations from ft to ft
perforations from ft to ft
perforations from ft to ft

Screens Yes ☒ No ☐
Manufacturer's Name Look
Type SS Model No
Diam Slot size 14 from 160 ft to 155 ft
Diam Slot size from ft to ft

Gravel packed Yes ☐ No ☒ Size of gravel
Gravel placed from ft to ft

Surface seal Yes ☒ No ☐ To what depth? 19 ft
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP Manufacturer's Name Goulds
Type Sub HP 5

(8) WATER LEVELS: Land surface elevation above mean sea level 175 ± ft
Static level 44 ft below top of well Date Oct 5 93
Artesian pressure lbs per square inch Date
Artesian water is controlled by (Cap valve, etc)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield gal/min with ft drawdown after hrs

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Baller test 25 gal/min with 0 ft drawdown after 1 hrs
Airtest gal/min with stem set at ft for hrs
Artesian flow g p m Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation Describe by color, character, size of material and structure and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information

MATERIAL	FROM	TO
Brown Clay sandgravel soft.	0	12
Brown Clay gravel sand Rock cobbl	12	16
Brown cemented Clay Rocks gravel	16	20
(Bolder)	(19)	
Light Brown Clay sand gravel cemented	20	28
(Bolder)	(28)	
Lgt. Brown Clay sand gravel Rock cemented	28	38
Red Clay sand soft	38	55
Brown Clay sand gravel cemented	55	81
gray clay gravel sand water bearing	81	98
gray clay sand Dry gravel	98	105
Brown Clay sand gravel cemented	105	145
Light Brown Clay gravel Rocks	145	149
Brown clay sand gravel Rock Water	149	151
Gravel sand (water)	151	155
Large sand gravel (water)	155	160

Work Started Sept 10 19 93 Completed Oct 9 19 93

WELL CONSTRUCTOR CERTIFICATION

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards Materials used and the information reported above are true to my best knowledge and belief

NAME B E J Drilling Co 392-3826
(PERSON FIRM OR CORPORATION) (TYPE OR PRINT)

Address 9026 38th Av. S.W. Seattle

(Signed) D L Cannon License No 1007
(WELL DRILLER)

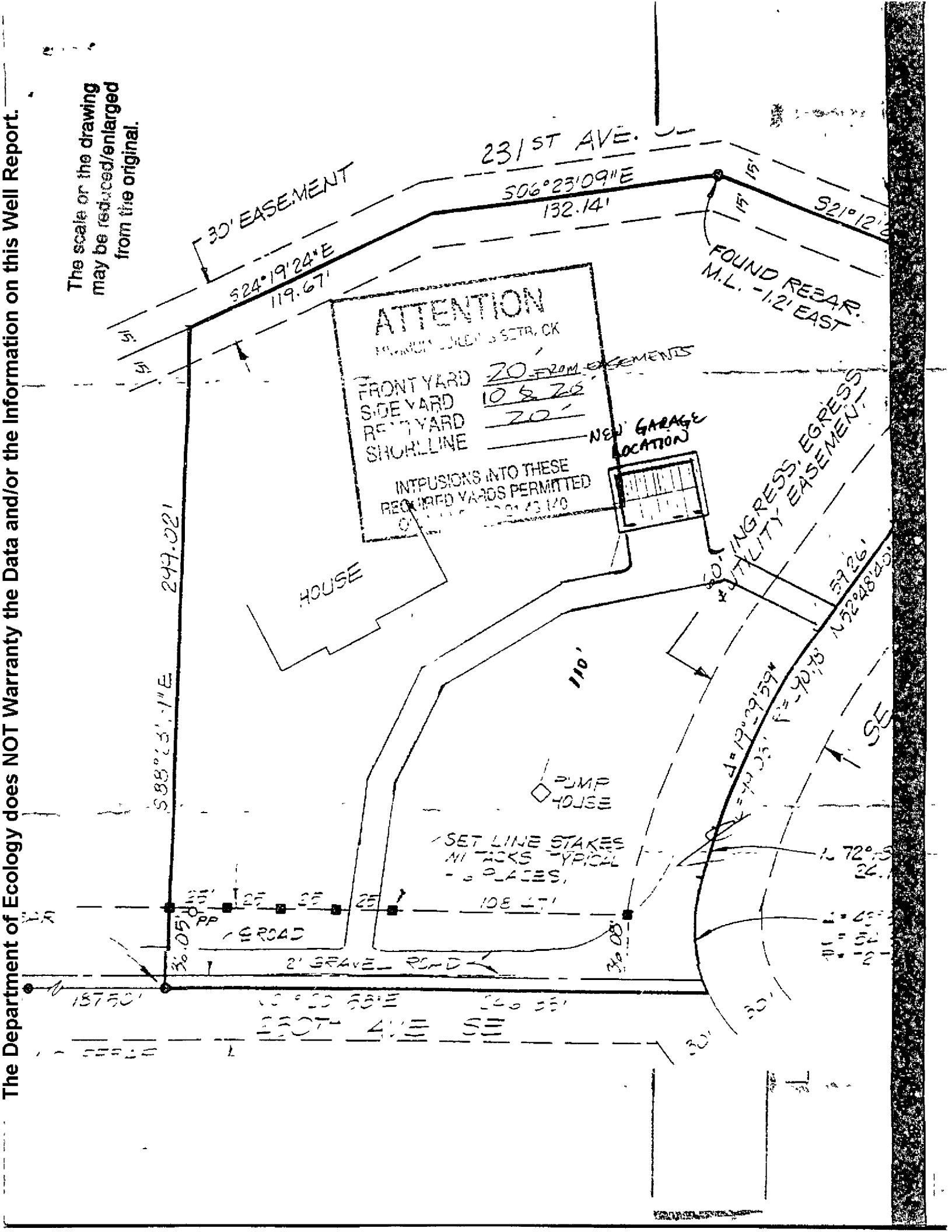
Contractor's Registration No BEJDT Date May 6 19 94

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (2/93) rev

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The scale of the drawing may be reduced/enlarged from the original.



The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

23-6E-22P

1832649

Please print, sign and return to the Department of Ecology

Water Well Report

Original – Ecology, 1st copy – owner, 2nd copy – driller

Construction/Decommission

☒ Construction

☐ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Current

Notice of Intent No. W167168

Unique Ecology Well ID Tag No. AKF-993

Water Right Permit No. _____

Property Owner Name Darcy Teets

Well Street Address 15820 230th Ave SE

City Issaquah County King

Location SE/4-1/4 SW/4 Sec 22 Twn 23 R 6 EWM ☒ or WWM ☐ circle one

Lat/Long (s, t, r still REQUIRED) Lat Deg _____ Lat Min/Sec _____

Long Deg _____ Long Min/Sec _____

Tax Parcel No. 222306-9062

PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other _____

TYPE OF WORK: Owner's number of well (if more than one) _____

☒ New well ☐ Reconditioned *Method:* ☐ Dug ☐ Bored ☐ Driven ☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 330 ft.

Depth of completed well 330 ft.

CONSTRUCTION DETAILS

Casing Installed: ☒ Welded 6" Diam. from 0 ft. to 330 ft.

☐ Liner installed _____" Diam. from _____ ft. to _____ ft.

☐ Threaded _____" Diam. from _____ ft. to _____ ft.

Perforations: ☐ Yes ☒ No

Type of perforator used _____

SIZE of perfs _____ in. by ____ in. and no. of perfs _____ from _____ ft. to _____ ft.

Screens: ☐ Yes ☒ No ☐ K-Pac Location _____

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel/Filter packed: ☐ Yes ☒ No ☐ Size of gravel/sand _____

Materials placed from _____ ft. to _____ ft.

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft.

Material used in seal bentonite

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 280 ft. below top of well Date 10-25-05

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest 14 gal./min. with stem set at 320 ft. for 1 1/2 hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? ☐ Yes ☒ No

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information indicate all water encountered. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
Surface	0	3
Sand-gravel-brown	3	11
Hardpan-brown	11	49
Sand-gravel-brown	49	165
Clay-gravel-tan	165	280
Sand-gravel-brown	280	300
Sand-gravel-heavy tan	300	328
Hardpan-gray	328	330

RECEIVED
OCT 28 2005
DEPT OF ECOLOGY

Start Date 10-7-05 Completed Date 10-25-05

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller/Engineer/Trainee Name (Print) Brad Johnson

Driller/Engineer/Trainee Signature _____

Driller or trainee License No. 0233

Drilling Company Johnson Drilling Co, Inc

Address 19415 108th Ave SE

City, State, Zip Renton, WA 98055

Contractor's Registration No. JOHNSDC207QM Date 10-25-05

If TRAINEE,

Driller's Licensed No. _____

Driller's Signature _____

Ecology is an Equal Opportunity Employer. ECY 050-1-20 (Rev 2/03)

321292

23-6E-22P

WATER WELL REPORT

Original & 1st copy – Ecology, 2nd copy – owner, 3rd copy – driller

Construction/Decommission *("x" in circle)*

(X) Construction

( ) Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

CURRENT

Notice of Intent No. W-252307

Unique Ecology Well ID Tag No. BAE 140

Water Right Permit No. N/A.

Property Owner Name ARNIE SCHUMACHER

Well Street Address 15919 Cedar Grove Rd SE

City ISSAQUAH, County KING 98027

Location SE 1/4-1/4 SW/4 Sec 22 Twn 23 R 6 E (EWM or WWM) circle one

Lat/Long (s, t, r Still **REQUIRED**) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. 2223049048

PROPOSED USE: (X) Domestic ( ) Industrial ( ) Municipal ( ) DeWater ( ) Irrigation ( ) Test Well ( ) Other _____

TYPE OF WORK: Owner's number of well (if more than one) _____

(X) New well ( ) Reconditioned *Method:* ( ) Dug ( ) Bored ( ) Driven ( ) Deepened (X) Cable (X) Rotary ( ) Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 180' ft. Depth of completed well 179' ft.

CONSTRUCTION DETAILS

Casing Installed: (X) Welded 6" Diam. from _____ ft. to _____ ft. ( ) Liner installed _____" Diam. from _____ ft. to _____ ft. ( ) Threaded _____" Diam. from _____ ft. to _____ ft.

Perforations: ( ) Yes (X) No

Type of perforator used _____

SIZE of perfs _____ in. by _____ in. and no. of perfs ____ from ____ ft. to ____ ft.

Screens: (X) Yes ( ) No ( ) K-Pac Location _____

Manufacturer's Name Johnson

Type SS Model No. _____

Diam. 6 Slot size 18 from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel/Filter packed: ( ) Yes (X) No ( ) Size of gravel/sand _____

Materials placed from _____ ft. to _____ ft.

Surface Seal: (X) Yes ( ) No To what depth? 18 ft.

Material used in seal Bentonite

Did any strata contain unusable water? ( ) Yes (X) No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

PUMP: Manufacturer's Name Goulds 18GS20

Type: Submersible H.P. 2

WATER LEVELS: Land-surface elevation above mean sea level 315± ft.

Static level 149 ft. below top of well Date 1-15-08

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? (X) Yes ( ) No If yes, by whom? B&J Drilling

Yield: 15 gal./min. with 2 ft. drawdown after 4 hrs.

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
(To Fast To Measure)					

Date of test _____

Bailer test 15 gal./min. with 2 ft. drawdown after 2 hrs.

Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? ( ) Yes (X) No

CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
Brown Clay gravel Rock hard	0'	10'
Brown Clay Sand gravel	10	20'
Reddish Clay gravel Some H2O	20'	40
BROWN Clay Sand gravel Clay Cemented	40	60
Light Brown Clay Cemented sand gravel Cobbles	60	100
Brownish Clay gravel Steel Cuttings some Lignite Coal	100	160
Brown gravel Sand Trace H2O	160'	170
Large gravel sand Pea Gravel Lot of water	170'	180

RECEIVED

OCT 30 2008

DEPT OF ECOLOGY

11-20-07 Start Date 1-14-08 Completed Date 1-14-08 11-23-07

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

(X) Driller ( ) Engineer ( ) Trainee Name (Print) T. L. CANNON

Driller/Engineer/Trainee Signature T.L. Cannon

Driller or trainee License No. 0071

Drilling Company B&J Drilling CO LLC

Address 9626 38th AVE SW. Seattle

City, State, Zip Seattle WA 98126

Contractor's Registration No. BJDRIJA932CC Date Oct. 30 2008

IF TRAINEE, Driller's Licensed No. _____ Driller's Signature _____

Ecology is an Equal Opportunity Employer.

ECY 050-1-20 (Rev 3/05) **The Department of Ecology does NOT warranty the Data and/or Information on this Well Report.**

10-10-2007 APPLIED FOR.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Attachment G

2025 Landfill Gas Monitoring Results

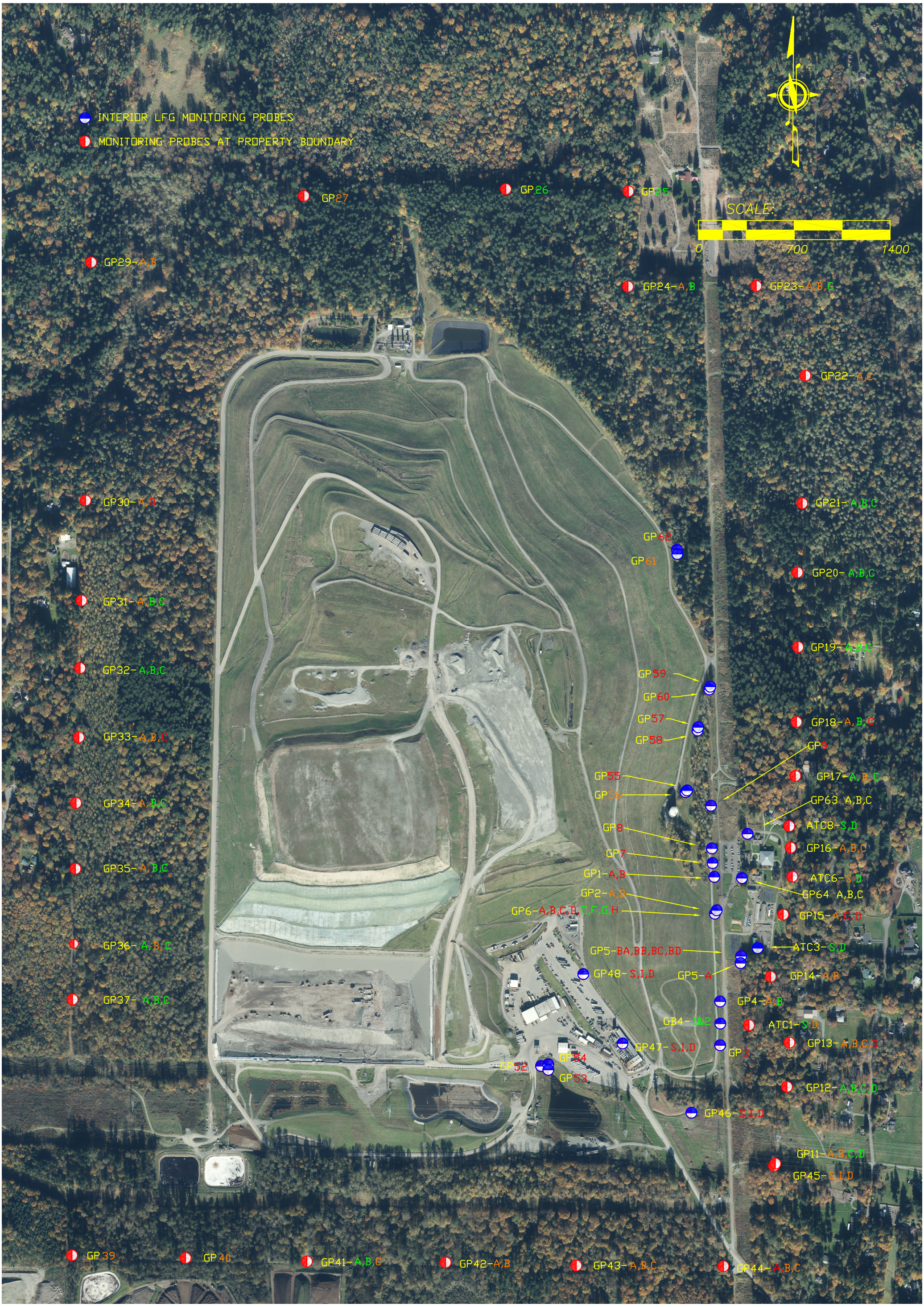
Compliance & Interior Monitoring Probes

Migration Monitoring Probes

Landfill Structure Monitoring

Passage Point Monitoring

Compliance & Interior Monitoring Probes


INTERIOR LFG MONITORING PROBES
MONITORING PROBES AT PROPERTY BOUNDARY
SCALE:
0
700
1400
GP27
GP26
GP25
GP29-A,B
GP24-A,B
GP23-A,B,C
GP22-A,C
GP30-A,B
GP31-A,B,C
GP32-A,B,C
GP33-A,B,C
GP34-A,B,C
GP35-A,B,C
GP36-A,B,C
GP37-A,B,C
GP62
GP61
GP59
GP60
GP57
GP58
GP55
GP56
GP8
GP7
GP1-A,B
GP2-A,B
GP6-A,B,C,D,E,F,G,H
GP5-BA,BB,BC,BD
GP5-A
GP48-S,I,D
GP47-S,I,D
GP54
GP52
GP53
GP21-A,B,C
GP20-A,B,C
GP19-A,B,C
GP18-A,B,C
GP9
GP17-A,B,C
GP63 A,B,C
ATC8-S,D
GP16-A,B,C
ATC6-S,D
GP64 A,B,C
GP15-A,C,D
ATC3-S,D
GP14-A,B
GP4-A,B
GB4-1&2
ATC1-S,D
GP13-A,B,C,D
GP3
GP12-A,B,C,D
GP46-S,I,D
GP11-A,B,C,D
GP45-S,I,D
GP39
GP40
GP41-A,B,C
GP42-A,B
GP43-A,B,C
GP44-A,B,C

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - January

Bar.Start: 30.39
Bar Stop: 30.39
Amb. Temp: 36
Tech: CS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	1/13/2025 11:52	0.0	0.1	21.0	0.0	0.02	
ATC-01S	1/13/2025 11:50	0.0	0.1	21.0	0.0	0.02	
ATC-03D	1/13/2025 13:30	0.0	2.3	15.6	0.0	-3.03	
ATC-03S	1/13/2025 13:29	0.0	0.1	20.1	0.0	-2.88	
ATC-06D	1/13/2025 14:00	0.0	0.8	4.2	0.0	-0.09	
ATC-06S	1/13/2025 13:59	0.0	0.4	20.7	0.0	-2.14	
ATC-08D	1/13/2025 13:52	0.0	0.2	20.6	0.0	-1.26	
ATC-08S	1/13/2025 13:50	0.0	0.1	20.7	0.0	-0.17	
GP-0025	1/13/2025 15:15	0.0	3.1	13.3	0.0	0.09	
GP-0026	1/13/2025 15:18	0.0	0.8	18.0	0.0	0.08	
GP-0027	1/13/2025 15:21	0.0	9.9	8.3	0.0	0.03	
GP-0039	1/13/2025 9:37	0.0	0.7	18.2	0.0	0.01	
GP-0040	1/13/2025 9:42	0.0	0.1	20.3	0.0	0.02	
GP-0052	1/13/2025 11:09	0.0	0.1	20.1	0.0	-9.20	
GP-0053	1/13/2025 11:10	0.0	0.4	19.0	0.0	0.05	
GP-0054	1/13/2025 11:07	0.0	0.1	20.0	0.0	0.06	
GP-005A	1/13/2025 12:22	0.0	0.3	14.2	0.0	-3.70	
GP-011A	1/13/2025 11:31	0.0	0.1	20.4	0.0	0.04	
GP-011B	1/13/2025 11:32	0.0	0.1	20.5	0.0	-0.36	
GP-011C	1/13/2025 11:33	0.0	0.1	20.5	0.0	0.01	
GP-011D	1/13/2025 11:34	0.0	0.1	20.5	0.0	0.06	
GP-012A	1/13/2025 11:59	0.0	0.1	21.0	0.0	0.20	
GP-012B	1/13/2025 12:00	0.0	0.1	21.0	0.0	0.38	
GP-012C	1/13/2025 12:01	0.0	0.1	21.0	0.0	-1.46	
GP-012D	1/13/2025 12:03	0.0	0.1	21.0	0.0	-3.84	
GP-013A	1/13/2025 12:06	0.0	0.1	21.0	0.0	0.30	
GP-013B	1/13/2025 12:08	0.0	0.1	21.0	0.0	0.25	
GP-013C	1/13/2025 12:09	0.0	0.1	21.0	0.0	0.17	
GP-013D	1/13/2025 12:10	0.0	0.1	21.0	0.0	-2.05	
GP-014A	1/13/2025 12:15	0.0	0.1	21.0	0.0	-0.53	
GP-014B	1/13/2025 12:16	0.0	0.1	12.0	0.0	-1.51	
GP-015A	1/13/2025 13:34	0.0	0.1	20.1	0.0	0.58	
GP-015C	1/13/2025 13:35	0.0	0.6	17.5	0.0	0.51	
GP-015D	1/13/2025 13:36	0.0	0.1	20.2	0.0	0.34	
GP-016A	1/13/2025 13:54	0.0	0.1	20.8	0.0	0.97	
GP-016B	1/13/2025 13:55	0.0	0.1	20.9	0.0	-3.47	
GP-016C	1/13/2025 13:56	0.0	0.1	20.9	0.0	-2.18	
GP-017A	1/13/2025 14:24	0.0	0.3	18.3	0.0	-8.50	
GP-017B	1/13/2025 14:25	0.0	0.8	17.1	0.0	0.01	
GP-017C	1/13/2025 14:27	0.0	0.1	21.0	0.0	-2.02	
GP-018A	1/13/2025 14:29	0.0	0.1	20.8	0.0	0.50	
GP-018B	1/13/2025 14:31	0.0	0.3	14.2	0.0	0.28	
GP-018C	1/13/2025 14:32	0.0	0.1	20.6	0.0	-2.20	
GP-019A	1/13/2025 14:35	0.0	0.1	20.9	0.0	0.02	
GP-019B	1/13/2025 14:37	0.0	0.6	16.5	0.0	0.05	
GP-019C	1/13/2025 14:38	0.0	0.1	20.9	0.0	-0.01	
GP-020A	1/13/2025 14:43	0.0	0.1	20.7	0.0	-2.22	
GP-020B	1/13/2025 14:44	0.0	0.2	20.5	0.0	0.02	
GP-020C	1/13/2025 14:45	0.0	0.2	17.7	0.0	0.60	
GP-021A	1/13/2025 14:51	0.0	0.1	20.4	0.0	0.03	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - January

Bar.Start: 30.39
Bar Stop: 30.39
Amb. Temp: 36
Tech: CS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-021B	1/13/2025 14:52	0.0	0.2	9.8	0.0	-3.74	
GP-021C	1/13/2025 14:53	0.0	1.4	12.8	0.0	0.20	
GP-022A	1/13/2025 14:59	0.0	0.4	20.1	0.0	-13.14	
GP-022C	1/13/2025 15:01	0.0	1.0	4.9	0.0	-3.79	
GP-023A	1/13/2025 15:06	0.0	0.1	20.1	0.0	-0.20	
GP-023B	1/13/2025 15:07	0.0	0.1	20.4	0.0	-0.82	
GP-023C	1/13/2025 15:08	0.0	0.1	20.4	0.0	-0.44	
GP-024A	1/13/2025 15:12	0.0	4.5	10.0	0.0	0.04	
GP-024B	1/13/2025 15:13	0.0	3.7	13.6	0.0	0.18	
GP-029A	1/13/2025 15:25	0.0	4.2	13.1	0.0	0.05	
GP-029B	1/13/2025 15:26	0.0	0.7	19.3	0.0	1.10	
GP-030A	1/13/2025 8:23	0.0	2.1	18.8	0.0	0.02	
GP-030B	1/13/2025 8:24	0.0	0.1	21.0	0.0	-0.52	
GP-031A	1/13/2025 8:29	0.0	0.1	21.0	0.0	3.20	
GP-031B	1/13/2025 8:30	0.0	0.3	16.1	0.0	-0.05	
GP-031C	1/13/2025 8:31	0.0	0.9	19.7	0.0	4.41	
GP-032A	1/13/2025 8:40	0.0	0.8	21.0	0.0	-0.02	
GP-032B	1/13/2025 8:41	0.0	0.2	21.0	0.0	0.01	
GP-032C	1/13/2025 8:43	0.0	0.3	21.0	0.0	-7.27	
GP-033A	1/13/2025 8:47	0.0	0.6	20.3	0.0	-7.73	
GP-033B	1/13/2025 8:49	0.0	0.1	20.8	0.0	0.01	
GP-033C	1/13/2025 8:50	0.0	0.1	20.9	0.0	-1.03	
GP-034A	1/13/2025 8:55	0.0	0.1	21.0	0.0	-0.01	
GP-034B	1/13/2025 8:57	0.0	0.1	21.0	0.0	-0.19	
GP-034C	1/13/2025 8:59	0.0	0.1	21.0	0.0	-1.78	
GP-035A	1/13/2025 9:11	0.0	0.2	20.9	0.0	-5.26	
GP-035B	1/13/2025 9:13	0.0	0.1	20.9	0.0	-1.40	
GP-035C	1/13/2025 9:14	0.0	0.1	21.0	0.0	-0.02	
GP-036A	1/13/2025 9:17	0.0	0.2	16.1	0.0	0.00	
GP-036B	1/13/2025 9:18	0.0	0.2	14.7	0.0	0.07	
GP-036C	1/13/2025 9:20	0.0	0.1	20.9	0.0	-1.02	
GP-037A	1/13/2025 9:23	0.0	0.1	20.8	0.0	-0.04	
GP-037B	1/13/2025 9:24	0.0	0.3	20.3	0.0	0.02	
GP-037C	1/13/2025 9:25	0.0	0.4	7.2	0.0	-1.94	
GP-041A	1/13/2025 9:49	0.0	0.1	20.6	0.0	-0.03	
GP-041B	1/13/2025 9:50	0.0	0.1	20.6	0.0	0.05	
GP-041C	1/13/2025 9:51	0.0	0.1	20.6	0.0	0.05	
GP-042A	1/13/2025 9:55	0.0	0.1	20.5	0.0	-0.31	
GP-042B	1/13/2025 9:57	0.0	0.2	20.5	0.0	-0.70	
GP-043A	1/13/2025 10:08	0.0	0.1	20.4	0.0	0.02	
GP-043B	1/13/2025 10:09	0.0	0.1	20.4	0.0	0.05	
GP-043C	1/13/2025 10:11	0.0	0.1	20.3	0.0	0.02	
GP-044A	1/13/2025 10:26	0.0	0.1	20.1	0.0	0.04	
GP-044B	1/13/2025 10:27	0.0	0.7	12.1	0.0	-4.39	
GP-044C	1/13/2025 10:28	0.0	0.1	20.1	0.0	0.03	
GP-045D	1/13/2025 11:39	0.0	0.1	20.6	0.0	-0.47	
GP-045I	1/13/2025 11:37	0.0	0.1	20.5	0.0	0.01	
GP-045S	1/13/2025 11:36	0.0	0.1	20.5	0.0	0.08	
GP-047D	1/13/2025 14:17	0.0	0.8	18.0	0.0	0.05	
GP-047I	1/13/2025 14:16	48.3	20.1	0.0	>>>>	-1.55	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - January

Bar.Start:	**30.39**
Bar Stop:	**30.39**
Amb. Temp:	**36**
Tech:	**CS**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-047S	1/13/2025 14:14	0.0	0.1	21.0	0.0	-1.51	
GP-05BA	1/13/2025 12:25	0.0	0.1	21.0	0.0	0.51	
GP-05BB	1/13/2025 12:26	0.0	0.1	21.0	0.0	-3.79	
GP-05BC	1/13/2025 12:27	0.0	0.1	21.0	0.0	-3.73	
GP-05BD	1/13/2025 12:29	0.0	0.1	21.0	0.0	-3.14	
GP-063A	1/13/2025 13:43	0.0	0.2	20.5	0.0	0.38	
GP-063B	1/13/2025 13:45	0.0	0.1	20.2	0.0	0.24	
GP-063C	1/13/2025 13:46	0.0	0.1	20.7	0.0	-1.85	
GP-064A	1/13/2025 14:04	0.0	0.1	20.4	0.0	0.20	
GP-064B	1/13/2025 14:06	0.0	1.0	19.5	0.0	0.15	
GP-064C	1/13/2025 14:07	0.0	0.1	21.0	0.0	-2.34	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - January

Bar.Start: 30.09
Bar Stop: 30.09
Amb. Temp: 34
Tech: SB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	1/16/2025 3:23	0.0	6.5	13.9	0	1.44	
GB-4two	1/16/2025 3:24	0.0	0.4	17.2	0	-0.07	
GP-0003	1/16/2025 3:33	0.0	0.7	21.0	0	-0.01	
GP-0007	1/16/2025 2:37	0.0	1.6	18.2	0	2.14	
GP-0008	1/16/2025 2:34	0.0	0.7	18.6	0	2.04	
GP-0009	1/16/2025 2:09	0.0	0.1	20.7	0	2.29	
GP-001A	1/16/2025 2:41	0.0	0.1	21.0	0	-0.04	
GP-001B	1/16/2025 2:42	0.0	0.7	20.4	0	3.99	
GP-002A	1/16/2025 3:05	0.0	3.0	17.0	0	-0.07	
GP-002B	1/16/2025 3:07	0.0	0.1	21.0	0	-0.01	
GP-004A	1/16/2025 3:13	0.0	0.1	21.0	0	-0.10	
GP-004B	1/16/2025 3:15	0.0	1.2	20.4	0	0.03	
GP-0055	1/16/2025 2:26	0.0	0.3	21.0	0	0.13	
GP-0056	1/16/2025 2:28	0.0	0.8	21.0	0	-0.04	
GP-0057	1/16/2025 2:19	59.3	25.3	0.3	>>>>	-5.59	
GP-0058	1/16/2025 2:22	0.3	15.1	8.2	6	-4.97	
GP-0059	1/16/2025 2:14	10.4	3.0	5.5	>>>>	0.46	
GP-0060	1/16/2025 2:16	0.0	0.2	20.9	0	0.00	
GP-0061	1/16/2025 2:00	0.0	1.1	19.7	0	1.67	
GP-0062	1/16/2025 2:03	0.0	1.8	19.2	0	0.03	
GP-006A	1/16/2025 2:47	0.0	1.1	16.5	0	2.24	
GP-006B	1/16/2025 2:48	0.0	1.9	13.0	0	2.71	
GP-006C	1/16/2025 2:50	0.0	0.1	21.0	0	2.70	
GP-006D	1/16/2025 2:51	0.0	4.1	3.1	0	2.19	
GP-006E	1/16/2025 2:53	0.0	0.1	21.0	0	2.72	
GP-006F	1/16/2025 2:54	0.0	0.1	21.0	0	2.70	
GP-006G	1/16/2025 2:55	0.0	1.0	18.2	0	2.66	
GP-006H	1/16/2025 2:57	0.0	3.9	3.3	0	2.18	
GP-046D	1/16/2025 3:44	0.0	0.1	21.0	0	1.97	
GP-046I	1/16/2025 3:42	0.0	0.1	21.0	0	0.67	
GP-046S	1/16/2025 3:41	0.0	0.3	15.8	0	0.40	
GP-048D	1/16/2025 3:52	0.0	3.4	14.7	0	2.25	
GP-048I	1/16/2025 3:50	0.0	0.2	20.9	0	-0.02	
GP-048S	1/16/2025 3:49	0.0	0.4	18.6	0	-0.04	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - January

Bar.Start: 30.33
Bar Stop: 30.33
Amb. Temp: 48
Tech: CS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	1/6/2025 14:05	0.0	0.2	16.4	0.0	-7.44	
Chgp013A	1/6/2025 13:51	0.0	0.1	21.0	0.0	-0.01	
Chgp013B	1/6/2025 13:52	0.0	0.1	21.0	0.0	-0.02	
Chgp013C	1/6/2025 13:53	0.0	0.1	21.0	0.0	0.03	
Chgp013D	1/6/2025 13:55	0.0	0.1	21.0	0.0	-5.43	
Chgp014A	1/6/2025 13:59	0.0	0.1	21.0	0.0	-3.10	
Chgp014B	1/6/2025 14:00	0.0	0.1	21.0	0.0	-3.38	
Chgp015A	1/6/2025 14:19	0.0	0.1	21.0	0.0	0.05	
Chgp015C	1/6/2025 14:20	0.0	0.6	18.8	0.0	0.03	
Chgp015D	1/6/2025 14:22	0.0	0.1	21.0	0.0	-1.02	
Chgp016A	1/6/2025 14:27	0.0	0.1	21.0	0.0	-0.12	
Chgp016B	1/6/2025 14:28	0.0	0.2	21.0	0.0	-2.20	
Chgp016C	1/6/2025 14:30	0.0	0.1	21.0	0.0	-6.11	
Chgp05BA	1/6/2025 14:07	0.0	0.8	21.0	0.0	-2.81	
Chgp05BB	1/6/2025 14:09	0.0	0.1	21.0	0.0	-7.42	
Chgp05BC	1/6/2025 14:12	0.0	0.1	21.0	0.0	-7.53	
Chgp05BD	1/6/2025 14:13	0.0	0.2	21.0	0.0	-6.83	

Bar.Start: 30.08
Bar Stop: 30.06
Amb. Temp: 48
Tech: CS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
CHGP005A	1/28/2025 13:50	0.0	0.5	12.0	0	3.29	
CHGP013A	1/28/2025 13:35	0.0	0.1	20.5	0	0.01	
CHGP013B	1/28/2025 13:37	0.0	0.1	20.6	0	-0.07	
CHGP013C	1/28/2025 13:38	0.0	0.2	16.6	0	-0.01	
CHGP013D	1/28/2025 13:39	0.0	0.1	19.8	0	2.48	
CHGP014A	1/28/2025 13:43	0.0	0.1	19.9	0	1.04	
CHGP014B	1/28/2025 13:44	0.0	0.1	19.8	0	0.79	
CHGP015A	1/28/2025 14:09	0.0	0.1	12.8	0	-0.03	
CHGP015C	1/28/2025 14:10	0.0	0.6	18.6	0	0.28	
CHGP015D	1/28/2025 14:11	0.0	0.1	21.0	0	-1.03	
CHGP016A	1/28/2025 14:17	0.0	0.2	20.9	0	-0.03	
CHGP016B	1/28/2025 14:18	0.0	0.3	19.7	0	2.39	
CHGP016C	1/28/2025 14:19	0.0	0.4	18.1	0	-0.57	
CHGP05BA	1/28/2025 13:53	0.0	1.8	14.4	0	3.25	
CHGP05BB	1/28/2025 13:54	0.0	0.3	20.9	0	-0.07	
CHGP05BC	1/28/2025 13:55	0.0	1.2	10.9	0	3.24	
CHGP05BD	1/28/2025 13:56	0.0	0.9	11.7	0	2.89	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - February

Bar.Start:	**29.42**
Bar Stop:	**29.44**
Amb. Temp:	**33**
Tech:	**AT**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	2/13/2025 10:34	0.0	0.4	15.6	0.0	-0.06	
ATC-01S	2/13/2025 10:32	0.0	0.1	20.2	0.0	0.03	
ATC-03D	2/13/2025 11:19	0.0	0.5	18.5	0.0	0.08	
ATC-03S	2/13/2025 11:17	0.0	0.2	19.8	0.0	-0.17	H2O
ATC-06D	2/13/2025 11:41	0.0	0.9	3.4	0.0	15.05	
ATC-06S	2/13/2025 11:38	0.0	0.3	19.9	0.0	-2.05	H2O
ATC-08D	2/13/2025 11:53	0.0	0.4	13.3	0.0	1.47	PUMP FAIL
ATC-08S	2/13/2025 11:51	0.0	2.6	15.9	0.0	1.23	
GP-0025	2/13/2025 15:18	0.0	2.6	14.5	0.0	-0.08	
GP-0026	2/13/2025 15:22	0.0	0.9	17.0	0.0	0.00	
GP-0027	2/13/2025 15:26	0.0	9.0	8.9	0.0	0.27	
GP-0039	2/13/2025 9:23	0.0	0.9	17.4	0.0	0.03	
GP-0040	2/13/2025 9:27	0.0	0.1	18.9	0.0	0.05	
GP-0052	2/13/2025 12:10	0.0	0.3	19.3	0.0	-13.47	PUMP FAIL
GP-0053	2/13/2025 12:11	0.0	0.6	17.6	0.0	1.04	
GP-0054	2/13/2025 12:13	0.0	0.1	19.8	0.0	0.84	PUMP FAIL
GP-005A	2/13/2025 11:07	0.0	0.6	11.2	0.0	9.49	
GP-011A	2/13/2025 10:10	0.0	0.1	20.2	0.0	0.01	
GP-011B	2/13/2025 10:12	0.0	0.8	11.4	0.0	2.73	
GP-011C	2/13/2025 10:13	0.0	0.2	13.0	0.0	2.08	
GP-011D	2/13/2025 10:14	0.0	0.1	20.2	0.0	0.03	PUMP FAIL
GP-012A	2/13/2025 10:48	0.0	0.1	20.4	0.0	-0.01	
GP-012B	2/13/2025 10:49	0.0	0.1	20.5	0.0	-0.01	
GP-012C	2/13/2025 10:50	0.0	0.1	20.4	0.0	0.72	
GP-012D	2/13/2025 10:51	0.0	0.7	5.7	0.0	2.80	
GP-013A	2/13/2025 10:40	0.0	0.1	20.3	0.0	0.02	
GP-013B	2/13/2025 10:42	0.0	0.1	20.3	0.0	0.02	
GP-013C	2/13/2025 10:43	0.0	0.2	17.4	0.0	0.00	
GP-013D	2/13/2025 10:44	0.0	0.2	19.3	0.0	8.30	
GP-014A	2/13/2025 10:58	0.0	0.2	18.6	0.0	4.69	
GP-014B	2/13/2025 10:59	0.0	0.3	18.6	0.0	3.84	
GP-015A	2/13/2025 11:22	0.0	0.1	19.9	0.0	-0.02	H2O
GP-015C	2/13/2025 11:23	0.0	0.7	16.7	0.0	0.03	
GP-015D	2/13/2025 11:25	0.0	0.1	19.9	0.0	-0.55	
GP-016A	2/13/2025 11:45	0.0	0.1	20.0	0.0	0.04	
GP-016B	2/13/2025 11:47	0.0	0.6	14.8	0.0	4.93	
GP-016C	2/13/2025 11:49	0.0	0.5	16.7	0.0	8.72	
GP-017A	2/13/2025 14:28	0.1	0.2	19.3	2.0	-0.99	H2O
GP-017B	2/13/2025 14:30	0.0	0.8	15.8	0.0	0.02	
GP-017C	2/13/2025 14:31	0.0	0.1	19.1	0.0	8.22	
GP-018A	2/13/2025 14:36	0.0	0.1	19.3	0.0	0.03	H2O
GP-018B	2/13/2025 14:38	0.0	0.3	14.1	0.0	0.03	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - February

Bar.Start:	**29.42**
Bar Stop:	**29.44**
Amb. Temp:	**33**
Tech:	**AT**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-018C	2/13/2025 14:39	0.0	0.2	16.5	0.0	8.64	
GP-019A	2/13/2025 14:43	0.0	0.1	19.6	0.0	0.01	
GP-019B	2/13/2025 14:44	0.0	0.7	15.1	0.0	5.72	
GP-019C	2/13/2025 14:45	0.0	0.1	19.6	0.0	0.94	
GP-020A	2/13/2025 14:49	0.0	0.1	19.9	0.0	1.42	
GP-020B	2/13/2025 14:51	0.0	0.3	16.1	0.0	0.04	
GP-020C	2/13/2025 14:51	0.0	0.2	17.4	0.0	1.78	PUMP FAIL
GP-021A	2/13/2025 14:54	0.0	0.1	20.0	0.0	0.03	
GP-021B	2/13/2025 14:56	0.0	0.2	8.7	0.0	-8.41	
GP-021C	2/13/2025 14:56	0.0	2.3	11.0	0.0	-1.45	H2O
GP-022A	2/13/2025 15:00	0.0	0.3	19.9	0.0	-7.41	
GP-022C	2/13/2025 15:01	0.0	0.8	3.9	0.0	8.66	
GP-023A	2/13/2025 15:06	0.0	0.1	19.9	0.0	0.07	
GP-023B	2/13/2025 15:07	0.0	0.1	20.0	0.0	-0.12	
GP-023C	2/13/2025 15:09	0.0	0.1	20.1	0.0	0.25	
GP-024A	2/13/2025 15:13	0.0	5.0	7.9	0.0	0.04	
GP-024B	2/13/2025 15:15	0.0	2.7	12.1	0.0	0.00	
GP-029A	2/13/2025 15:30	0.0	3.8	12.9	0.0	0.00	
GP-029B	2/13/2025 15:31	0.0	0.8	18.4	0.0	3.28	
GP-030A	2/13/2025 8:02	0.0	1.8	17.6	0.0	0.03	PUMP FAIL
GP-030B	2/13/2025 8:04	0.0	1.5	17.7	0.0	1.65	
GP-031A	2/13/2025 8:09	0.0	0.2	19.3	0.0	-0.01	H2O
GP-031B	2/13/2025 8:11	0.0	0.4	14.3	0.0	3.13	
GP-031C	2/13/2025 8:12	0.0	0.1	19.5	0.0	0.02	
GP-032A	2/13/2025 8:15	0.0	2.1	16.7	0.0	0.00	
GP-032B	2/13/2025 8:17	0.0	0.7	18.9	0.0	0.04	H2O
GP-032C	2/13/2025 8:18	0.0	0.9	18.5	0.0	0.09	
GP-033A	2/13/2025 8:22	0.0	1.3	18.6	0.0	1.85	
GP-033B	2/13/2025 8:24	0.0	0.1	19.9	0.0	0.04	
GP-033C	2/13/2025 8:25	0.0	0.8	18.2	0.0	2.54	
GP-034A	2/13/2025 8:42	0.0	0.3	15.6	0.0	0.06	H2O
GP-034B	2/13/2025 8:45	0.0	0.3	15.6	0.0	0.43	
GP-034C	2/13/2025 8:46	0.0	0.1	17.3	0.0	7.81	
GP-035A	2/13/2025 8:49	0.0	2.4	18.7	0.0	2.12	
GP-035B	2/13/2025 8:52	0.0	0.5	10.6	0.0	6.53	
GP-035C	2/13/2025 8:53	0.0	0.1	19.5	0.0	1.03	
GP-036A	2/13/2025 8:57	0.0	0.4	3.1	0.0	0.41	
GP-036B	2/13/2025 8:58	0.0	0.3	12.8	0.0	1.17	PUMP FAIL
GP-036C	2/13/2025 9:00	0.0	0.1	20.3	0.0	0.52	
GP-037A	2/13/2025 9:07	0.0	0.1	20.4	0.0	0.02	H2O
GP-037B	2/13/2025 9:08	0.0	0.3	19.6	0.0	0.12	PUMP FAIL
GP-037C	2/13/2025 9:10	0.0	0.7	1.4	0.0	5.41	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - February

Bar.Start:	**29.42**
Bar Stop:	**29.44**
Amb. Temp:	**33**
Tech:	**AT**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-041A	2/13/2025 9:30	0.0	0.1	20.2	0.0	0.04	
GP-041B	2/13/2025 9:31	0.0	0.1	20.2	0.0	0.03	
GP-041C	2/13/2025 9:33	0.0	0.1	20.3	0.0	0.00	
GP-042A	2/13/2025 9:44	0.0	0.2	20.0	0.0	-4.42	H2O
GP-042B	2/13/2025 9:45	0.0	0.3	16.0	0.0	4.01	
GP-043A	2/13/2025 9:49	0.0	0.2	17.5	0.0	0.39	PUMP FAIL
GP-043B	2/13/2025 9:50	0.0	0.1	19.8	0.0	0.00	PUMP FAIL
GP-043C	2/13/2025 9:52	0.0	0.2	16.1	0.0	0.50	
GP-044A	2/13/2025 9:55	0.0	0.1	19.8	0.0	0.00	H2O
GP-044B	2/13/2025 9:56	0.0	1.0	9.1	0.0	9.57	
GP-044C	2/13/2025 9:58	0.0	0.1	18.4	0.0	0.00	
GP-045D	2/13/2025 10:08	0.0	0.2	18.2	0.0	3.18	
GP-045I	2/13/2025 10:07	0.0	0.2	14.8	0.0	0.20	
GP-045S	2/13/2025 10:05	0.0	0.1	20.0	0.0	0.03	
GP-047D	2/13/2025 12:22	0.1	2.6	10.8	2.0	0.01	
GP-047I	2/13/2025 12:21	50.2	19.9	0.0	>>>>	8.70	
GP-047S	2/13/2025 12:19	55.8	15.5	0.1	>>>>	8.91	
GP-05BA	2/13/2025 11:09	0.0	0.2	19.8	0.0	0.05	H2O
GP-05BB	2/13/2025 11:10	0.0	1.8	16.9	0.0	9.52	H2O
GP-05BC	2/13/2025 11:11	0.0	1.2	4.9	0.0	9.53	
GP-05BD	2/13/2025 11:12	0.0	1.0	10.0	0.0	8.98	
GP-063A	2/13/2025 11:56	0.0	0.2	20.0	0.0	0.22	
GP-063B	2/13/2025 11:57	0.0	0.1	19.5	0.0	-0.02	
GP-063C	2/13/2025 11:59	0.0	0.2	18.4	0.0	7.74	
GP-064A	2/13/2025 11:30	0.0	0.1	19.9	0.0	0.28	
GP-064B	2/13/2025 11:32	0.0	3.0	15.3	0.0	0.04	
GP-064C	2/13/2025 11:34	0.0	0.6	12.3	0.0	5.42	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 29.47
Bar Stop: 29.56
Amb. Temp: 32
Tech: RH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0061	2/13/2025 22:28	0.0	2.2	17.9	0	4.24	
GP-0062	2/13/2025 22:29	0.0	1.6	18.2	0	-0.02	
GP-0009	2/13/2025 22:36	0.0	2.2	12.7	0	5.69	
GP-0059	2/13/2025 22:45	35.5	13.1	0.1	>>>>	1.01	
GP-0060	2/13/2025 22:47	0.0	0.2	20.7	0	-0.07	
GP-0057	2/13/2025 22:51	16.2	8.5	15.0	>>>>	-1.15	
GP-0058	2/13/2025 22:53	0.1	8.4	17.4	2	-0.45	
GP-0055	2/13/2025 22:58	35.2	17.9	0.5	>>>>	0.00	
GP-0056	2/13/2025 23:00	0.0	0.6	20.8	0	-0.11	
GP-0008	2/13/2025 23:04	0.0	1.7	16.5	0	4.96	
GP-0007	2/13/2025 23:08	0.0	2.7	12.6	0	5.14	
GP-001A	2/13/2025 23:11	0.0	0.1	21.0	0	-0.13	
GP-001B	2/13/2025 23:13	0.0	0.7	20.0	0	-0.11	
GP-006A	2/13/2025 23:17	0.0	1.7	11.0	0	5.87	
GP-006B	2/13/2025 23:19	0.0	3.0	7.9	0	6.41	
GP-006C	2/13/2025 23:20	0.0	0.8	17.7	0	6.32	
GP-006D	2/13/2025 23:22	0.0	4.0	3.1	0	6.07	
GP-006E	2/13/2025 23:23	0.0	1.9	11.5	0	6.35	
GP-006F	2/13/2025 23:24	0.0	1.5	12.8	0	6.34	
GP-006G	2/13/2025 23:26	0.0	1.1	15.9	0	6.33	
GP-006H	2/13/2025 23:28	0.0	4.0	3.2	0	6.01	
GP-002A	2/13/2025 23:35	0.0	6.0	7.6	0	-0.18	
GP-002B	2/13/2025 23:37	0.0	0.2	21.0	0	-0.17	
GP-004A	2/13/2025 23:43	0.0	0.1	21.0	0	-0.17	
GP-004B	2/13/2025 23:44	0.0	0.6	20.8	0	-0.39	
GB-4one	2/13/2025 23:49	0.0	9.8	7.9	0	4.54	
GB-4two	2/13/2025 23:50	0.0	2.2	15.4	0	4.40	
GP-0003	2/13/2025 23:53	0.0	3.0	16.5	0	-0.19	
GP-046S	2/14/2025 0:00	0.0	0.3	12.7	0	-0.26	
GP-046I	2/14/2025 0:02	6.1	3.7	0.1	>>>>	5.47	
GP-046D	2/14/2025 0:04	0.0	2.3	15.6	0	2.84	
GP-048S	2/14/2025 0:10	0.0	1.1	13.2	0	-0.19	
GP-048I	2/14/2025 0:12	0.0	0.2	20.9	0	-0.19	
GP-048D	2/14/2025 0:14	3.0	9.4	2.6	60	5.95	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - February

Bar.Start:	**30.05**
Bar Stop:	**30.05**
Amb. Temp:	**65**
Tech:	**AT**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	2/27/2025 13:11	0	0	20.6	79.4	-2.33	
Chgp013A	2/27/2025 12:51	0	0	20.1	79.9	0.01	
Chgp013B	2/27/2025 12:52	0	0	20.1	79.9	0	
Chgp013C	2/27/2025 12:54	0	0	20.1	79.9	-0.03	
Chgp013D	2/27/2025 12:56	0	0	20.3	79.7	-1.46	
Chgp014A	2/27/2025 13:05	0	0	20.6	79.4	-0.74	
Chgp014B	2/27/2025 13:06	0	0	20.8	79.2	-1.08	
Chgp015A	2/27/2025 13:23	0	0	20.7	79.3	0.02	
Chgp015C	2/27/2025 13:25	0	0.5	18	81.5	0.04	
Chgp015D	2/27/2025 13:26	0	0	20.8	79.2	1.12	
Chgp016A	2/27/2025 13:32	0	0	20.7	79.3	0.14	
Chgp016B	2/27/2025 13:33	0	0.2	18.5	81.3	-0.03	
Chgp016C	2/27/2025 13:35	0	0	20.7	79.3	-1.55	
Chgp05BA	2/27/2025 13:14	0	0	20.8	79.2	-0.01	
Chgp05BB	2/27/2025 13:16	0	0	20.7	79.3	-2.32	
Chgp05BC	2/27/2025 13:17	0	0	20.9	79.1	-0.96	
Chgp05BD	2/27/2025 13:19	0	0	20.9	79.1	-0.03	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 29.42
Bar Stop: 29.40
Amb. Temp: 46*F
Tech: DNS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	3/12/2025 21:35	0.0	9.2	7.8	0	4.54	
GB-4two	3/12/2025 21:37	0.0	0.0	0.0	0	5.21	
GP-0003	3/12/2025 21:46	0.0	4.0	17.4	0	0.42	NR WATER
GP-0007	3/12/2025 20:42	0.0	2.8	12.7	0	5.29	
GP-0008	3/12/2025 20:38	0.0	1.7	16.6	0	5.13	
GP-0009	3/12/2025 20:13	0.0	2.3	13.4	0	5.26	
GP-001A	3/12/2025 20:47	0.0	0.1	21.0	0	0.08	
GP-001B	3/12/2025 20:53	0.0	0.2	21.0	0	0.09	
GP-002A	3/12/2025 21:21	0.0	5.0	10.9	0	0.18	
GP-002B	3/12/2025 21:22	0.0	0.1	22.0	0	0.17	
GP-004A	3/12/2025 21:29	0.0	0.1	21.0	0	0.19	
GP-004B	3/12/2025 21:31	0.0	0.2	21.0	0	0.20	
GP-0055	3/12/2025 20:32	19.2	16.4	0.0	>>>>	0.30	
GP-0056	3/12/2025 20:34	0.0	0.3	21.0	0	0.05	
GP-0057	3/12/2025 20:26	44.9	24.3	0.2	>>>>	-10.93	
GP-0058	3/12/2025 20:24	0.2	6.2	18.6	4	3.77	
GP-0059	3/12/2025 20:20	34.1	14.0	0.0	>>>>	1.03	
GP-0060	3/12/2025 20:18	0.0	0.1	21.0	0	-0.62	
GP-0061	3/12/2025 20:05	0.0	2.4	18.1	0	3.93	
GP-0062	3/12/2025 20:03	0.0	1.3	19.7	0	-0.03	
GP-006A	3/12/2025 21:00	0.0	1.8	8.4	0	5.61	
GP-006B	3/12/2025 21:01	0.0	3.0	6.2	0	6.26	
GP-006C	3/12/2025 21:03	0.0	0.7	17.5	0	6.21	
GP-006D	3/12/2025 21:05	0.0	3.9	2.8	0	5.38	
GP-006E	3/12/2025 21:07	0.0	1.8	11.6	0	6.34	
GP-006F	3/12/2025 21:09	0.0	1.6	12.1	0	6.30	
GP-006G	3/12/2025 21:10	0.0	1.1	15.1	0	6.24	
GP-006H	3/12/2025 21:12	0.0	4.0	2.8	0	5.45	
GP-046D	3/12/2025 21:54	0.4	4.7	5.6	8	3.79	
GP-046I	3/12/2025 21:52	12.6	2.3	0.0	>>>>	6.11	
GP-046S	3/12/2025 21:51	0.0	0.3	13.5	0	0.26	
GP-048D	3/12/2025 22:05	10.3	13.7	0	>>>>	5.35	
GP-048I	3/12/2025 22:03	0	0.3	21	0	0.29	
GP-048S	3/12/2025 22:02	0	0.4	18.5	0	-0.38	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.04
Bar Stop: 30.04
Amb. Temp: 45
Tech: B.B.

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	3/19/2025 13:52	0.0	0.0	0.0	0.0	0.0	H20
ATC-01S	3/19/2025 13:52	0.0	0.5	20.8	0.0	0.6	
ATC-03D	3/19/2025 14:41	0.0	3.6	11.4	0.0	-2.7	
ATC-03S	3/19/2025 14:40	0.0	0.8	20.4	0.0	0.0	
ATC-06D	3/19/2025 15:04	0.0	0.8	3.1	0.0	1.0	
ATC-06S	3/19/2025 15:03	0.0	0.4	20.4	0.0	2.8	
ATC-08D	3/19/2025 14:56	0.0	0.3	20.1	0.0	-1.2	
ATC-08S	3/19/2025 14:56	0.0	0.3	14.7	0.0	0.1	
GP-0052	3/19/2025 15:32	0.0	0.2	20.7	0.0	4.0	
GP-0053	3/19/2025 15:30	0.0	0.9	17.4	0.0	0.3	
GP-0054	3/19/2025 15:33	0.0	0.2	20.6	0.0	0.1	
GP-005A	3/19/2025 14:22	0.0	0.1	20.7	0.0	-2.8	
GP-011A	3/19/2025 13:40	0.0	0.1	20.9	0.0	0.3	
GP-011B	3/19/2025 13:41	0.0	0.1	20.9	0.0	1.0	
GP-011C	3/19/2025 13:42	0.0	0.1	20.9	0.0	1.1	
GP-011D	3/19/2025 13:43	0.0	0.1	20.8	0.0	0.1	
GP-012A	3/19/2025 14:06	0.0	0.1	21.0	0.0	0.0	
GP-012B	3/19/2025 14:07	0.0	0.1	21.0	0.0	0.1	
GP-012C	3/19/2025 14:08	0.0	0.2	18.4	0.0	-3.3	
GP-012D	3/19/2025 14:09	0.0	0.1	21.0	0.0	-1.0	
GP-013A	3/19/2025 13:58	0.0	0.1	21.0	0.0	0.1	
GP-013B	3/19/2025 13:59	0.0	0.1	21.0	0.0	0.1	
GP-013C	3/19/2025 14:00	0.0	0.1	19.6	0.0	0.1	
GP-013D	3/19/2025 14:01	0.0	0.1	21.0	0.0	-0.5	
GP-014A	3/19/2025 14:15	0.0	0.1	21.0	0.0	-0.4	
GP-014B	3/19/2025 14:16	0.0	0.1	21.0	0.0	-0.8	
GP-015A	3/19/2025 14:34	0.0	0.1	20.7	0.0	0.1	
GP-015C	3/19/2025 14:36	0.0	0.5	18.5	0.0	0.1	
GP-015D	3/19/2025 14:37	0.0	0.1	20.7	0.0	-0.6	
GP-016A	3/19/2025 14:58	0.0	0.1	20.8	0.0	0.1	
GP-016B	3/19/2025 14:59	0.0	0.1	20.8	0.0	0.5	
GP-016C	3/19/2025 15:01	0.0	0.1	20.8	0.0	-0.5	
GP-030A	3/19/2025 9:35	0.0	0.6	20.7	0.0	0.1	
GP-030B	3/19/2025 9:36	0.0	0.7	20.5	0.0	0.7	
GP-031A	3/19/2025 9:41	0.0	0.0	0.0	0.0	0.0	H20
GP-031B	3/19/2025 9:42	0.0	0.2	18.8	0.0	2.1	
GP-031C	3/19/2025 9:43	0.0	0.1	21.0	0.0	0.0	
GP-032A	3/19/2025 9:46	0.0	0.7	19.8	0.0	0.0	
GP-032B	3/19/2025 9:47	0.0	0.2	21.0	0.0	0.0	
GP-032C	3/19/2025 9:49	0.0	0.8	20.0	0.0	0.0	
GP-033A	3/19/2025 9:53	0.0	0.2	21.0	0.0	0.0	
GP-033B	3/19/2025 9:54	0.0	0.1	21.0	0.0	0.0	
GP-033C	3/19/2025 9:55	0.0	0.1	21.0	0.0	0.4	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 30.04
Bar Stop: 30.04
Amb. Temp: 45
Tech: B.B.

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-045D	3/19/2025 13:38	0.0	0.1	20.9	0.0	0.8	
GP-045I	3/19/2025 13:37	0.0	0.1	20.9	0.0	0.1	
GP-045S	3/19/2025 13:35	0.0	0.1	20.8	0.0	0.0	
GP-047D	3/19/2025 15:24	0.0	0.9	11.9	0.0	1.2	
GP-047I	3/19/2025 15:23	51.9	20.5	0.1	>>>>	0.5	
GP-047S	3/19/2025 15:22	0.0	0.1	20.8	0.0	0.9	
GP-05BA	3/19/2025 14:25	0.0	0.3	20.0	0.0	0.0	
GP-05BB	3/19/2025 14:26	0.0	0.1	20.7	0.0	-2.7	
GP-05BC	3/19/2025 14:27	0.0	0.1	20.7	0.0	-2.7	
GP-05BD	3/19/2025 14:28	0.0	0.1	20.7	0.0	-1.7	
GP-063A	3/19/2025 14:49	0.0	0.3	20.4	0.0	0.1	
GP-063B	3/19/2025 14:50	0.0	0.1	20.7	0.0	0.1	
GP-063C	3/19/2025 14:52	0.0	0.1	20.8	0.0	-0.3	
GP-064A	3/19/2025 15:10	0.0	0.1	20.3	0.0	0.1	
GP-064B	3/19/2025 15:12	0.0	0.9	19.8	0.0	0.7	
GP-064C	3/19/2025 15:14	0.0	0.1	20.7	0.0	-1.1	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start: 29.95
Bar Stop: 29.95
Amb. Temp: 42
Tech: B.B.

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0025	3/20/2025 14:42	0.0	1.7	17.4	0.0	0.0	
GP-0026	3/20/2025 14:46	0.0	0.6	19.9	0.0	0.0	
GP-0027	3/20/2025 14:51	0.0	5.1	14.6	0.0	0.0	
GP-0039	3/20/2025 11:09	0.0	0.9	18.0	0.0	0.0	
GP-0040	3/20/2025 11:13	0.0	0.1	19.5	0.0	0.0	
GP-017A	3/20/2025 13:50	0.0	0.1	20.8	0.0	-0.4	
GP-017B	3/20/2025 13:52	0.0	0.3	19.6	0.0	0.0	
GP-017C	3/20/2025 13:53	0.0	0.1	20.8	0.0	-1.3	
GP-018A	3/20/2025 13:56	0.0	0.1	20.9	0.0	0.0	
GP-018B	3/20/2025 13:58	0.0	0.1	20.6	0.0	0.0	
GP-018C	3/20/2025 13:58	0.0	0.1	20.9	0.0	-0.7	
GP-019A	3/20/2025 14:02	0.0	0.1	21.0	0.0	0.0	
GP-019B	3/20/2025 14:03	0.0	0.4	17.9	0.0	0.0	
GP-019C	3/20/2025 14:04	0.0	0.1	21.0	0.0	0.0	
GP-020A	3/20/2025 14:08	0.0	0.1	21.0	0.0	0.0	
GP-020B	3/20/2025 14:09	0.0	0.2	19.5	0.0	0.0	
GP-020C	3/20/2025 14:10	0.0	0.1	21.0	0.0	-0.2	
GP-021A	3/20/2025 14:14	0.0	0.1	21.0	0.0	0.0	
GP-021B	3/20/2025 14:15	0.0	0.1	10.9	0.0	-0.1	
GP-021C	3/20/2025 14:16	0.0	0.1	21.0	0.0	0.0	
GP-022A	3/20/2025 14:22	0.0	0.1	21.0	0.0	0.0	
GP-022C	3/20/2025 14:23	0.0	0.6	7.9	0.0	-2.0	
GP-023A	3/20/2025 14:30	0.0	0.1	21.0	0.0	0.0	
GP-023B	3/20/2025 14:31	0.0	0.1	21.0	0.0	0.0	
GP-023C	3/20/2025 14:32	0.0	0.1	21.0	0.0	0.0	
GP-024A	3/20/2025 14:37	0.0	3.6	9.5	0.0	0.0	
GP-024B	3/20/2025 14:38	0.0	0.9	20.0	0.0	0.0	
GP-029A	3/20/2025 14:56	0.0	2.1	17.5	0.0	0.0	
GP-029B	3/20/2025 14:57	0.0	0.6	20.5	0.0	0.0	
GP-034A	3/20/2025 10:34	0.0	0.1	21.0	0.0	0.0	
GP-034B	3/20/2025 10:35	0.0	0.1	21.0	0.0	0.0	
GP-034C	3/20/2025 10:36	0.0	0.1	21.0	0.0	-1.0	
GP-035A	3/20/2025 10:40	0.0	0.2	21.0	0.0	-0.7	
GP-035B	3/20/2025 10:41	0.0	0.1	21.0	0.0	0.0	
GP-035C	3/20/2025 10:42	0.0	0.1	21.0	0.0	0.0	
GP-036A	3/20/2025 10:47	0.0	0.1	20.9	0.0	0.0	
GP-036B	3/20/2025 10:48	0.0	0.1	21.0	0.0	0.0	
GP-036C	3/20/2025 10:52	0.0	0.1	21.0	0.0	-0.1	
GP-037A	3/20/2025 11:00	0.0	0.1	21.0	0.0	-0.1	
GP-037B	3/20/2025 11:01	0.0	0.1	21.0	0.0	0.0	
GP-037C	3/20/2025 11:02	0.0	0.4	8.4	0.0	-0.6	
GP-041A	3/20/2025 11:19	0.0	0.1	20.7	0.0	0.0	
GP-041B	3/20/2025 11:20	0.0	0.1	20.7	0.0	0.0	

DNRP / KCSW
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL

Bar.Start:	**29.95**
Bar Stop:	**29.95**
Amb. Temp:	**42**
Tech:	**B.B.**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-041C	3/20/2025 11:21	0.0	0.1	20.8	0.0	0.0	
GP-042A	3/20/2025 11:39	0.0	0.1	20.7	0.0	-0.7	
GP-042B	3/20/2025 11:40	0.0	0.1	20.8	0.0	-0.4	
GP-043A	3/20/2025 11:45	0.0	0.1	20.7	0.0	0.0	
GP-043B	3/20/2025 11:46	0.0	0.1	20.7	0.0	0.1	
GP-043C	3/20/2025 11:47	0.0	0.1	18.8	0.0	0.0	
GP-044A	3/20/2025 11:51	0.0	0.1	20.8	0.0	0.1	
GP-044B	3/20/2025 11:52	0.0	0.1	20.6	0.0	0.0	
GP-044C	3/20/2025 11:53	0.0	0.1	20.9	0.0	0.1	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - March

Bar.Start:	**29.53**
Bar Stop:	**29.63**
Amb. Temp:	**40**
Tech:	**LM**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	3/13/2025 9:51	0.0	0.7	10.2	0.0	4.3	
Chgp013A	3/13/2025 9:27	0.0	0.1	20.8	0.0	0.0	
Chgp013B	3/13/2025 9:29	0.0	0.1	20.6	0.0	0.2	
Chgp013C	3/13/2025 9:30	0.0	0.1	21.0	0.0	0.0	
Chgp013D	3/13/2025 9:32	0.0	0.2	18.7	0.0	1.7	
Chgp014A	3/13/2025 9:37	0.0	0.2	16.6	0.0	1.4	
Chgp014B	3/13/2025 9:38	0.0	0.3	17.0	0.0	1.3	
Chgp015A	3/13/2025 9:57	0.0	0.1	21.0	0.0	0.0	
Chgp015C	3/13/2025 9:59	0.0	0.6	19.5	0.0	-0.1	
Chgp015D	3/13/2025 10:00	0.0	0.1	21.0	0.0	0.4	
Chgp016A	3/13/2025 10:08	0.0	0.1	21.0	0.0	-0.1	
Chgp016B	3/13/2025 10:09	0.0	0.4	16.3	0.0	-1.4	
Chgp016C	3/13/2025 10:10	0.0	0.7	16.0	0.0	2.5	
Chgp05BA	3/13/2025 9:44	0.0	0.3	19.8	0.0	0.0	
Chgp05BB	3/13/2025 9:46	0.0	1.8	9.6	0.0	3.7	
Chgp05BC	3/13/2025 9:47	0.0	1.3	5.2	0.0	4.2	
Chgp05BD	3/13/2025 9:49	0.0	1.0	11.0	0.0	3.2	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - April

Bar.Start: 30.10
Bar Stop: 30.05
Amb. Temp: 51
Tech: SB

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	4/10/2025 0:22	0	5.7	16.1	0	-3.74	
GB-4two	4/10/2025 0:24	0	2	14.2	0	-0.68	
GP-0003	4/10/2025 0:30	0	2.9	18.3	0	-0.51	
GP-0007	4/9/2025 23:40	0	0.1	21	0	-2.13	
GP-0008	4/9/2025 23:36	0	0.4	20.8	0	-2.05	
GP-0009	4/9/2025 22:55	0	0.1	20.9	0	-2.12	
GP-001A	4/9/2025 23:46	0	0.1	21	0	0	
GP-001B	4/9/2025 23:48	0	0.3	20.8	0	-0.02	
GP-002A	4/10/2025 0:08	0	3.2	18	0	-0.07	
GP-002B	4/10/2025 0:10	0	0.1	21	0	0.01	
GP-004A	4/10/2025 0:18	0	0.1	21	0	-0.22	
GP-004B	4/10/2025 0:19	0	0.1	21	0	0.01	
GP-0055	4/9/2025 23:27	0	0.2	21	0	-0.09	
GP-0056	4/9/2025 23:29	0	0.2	21	0	0.03	
GP-0057	4/9/2025 23:17	53.3	25.9	0.4	>>>>	-13.84	
GP-0058	4/9/2025 23:19	0.1	5.5	19	2	0.64	
GP-0059	4/9/2025 23:00	0	0.1	21	0	-0.08	
GP-0060	4/9/2025 23:02	0	0.1	21	0	-0.38	
GP-0061	4/9/2025 22:47	0	0.1	20.6	0	-1.24	
GP-0062	4/9/2025 22:49	0	1.2	19.7	0	0.01	
GP-006A	4/9/2025 23:52	0	0.1	21	0	-2.42	
GP-006B	4/9/2025 23:53	0	0	21	0	-1.97	
GP-006C	4/9/2025 23:55	0	0	21	0	-1.86	
GP-006D	4/9/2025 23:56	0	0	21	0	-2.77	
GP-006E	4/9/2025 23:58	0	0	21	0	-1.88	
GP-006F	4/10/2025 0:00	0	0	21	0	-1.95	
GP-006G	4/10/2025 0:01	0	0	21	0	-1.85	
GP-006H	4/10/2025 0:03	0	0	21	0	-2.76	
GP-046D	4/10/2025 0:40	0	0.1	21	0	-0.88	
GP-046I	4/10/2025 0:39	0	0.1	21	0	-0.8	
GP-046S	4/10/2025 0:37	0	0.1	21	0	0	
GP-048D	4/10/2025 0:48	0	0.1	21	0	-1.69	
GP-048I	4/10/2025 0:47	0	0.1	21	0	-0.04	
GP-048S	4/10/2025 0:45	0	0.2	20.6	0	0.07	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - April

Bar.Start: 30.02
Bar Stop: 29.97
Amb. Temp: 53
Tech: CC, LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	4/16/2025 11:28	0.0	0.0	21.0	0.0	0.1	
ATC-01S	4/16/2025 11:22	0.0	0.0	0.0	0.0	0.0	H2O
ATC-03D	4/16/2025 12:29	0.0	0.5	18.4	0.0	0.5	
ATC-03S	4/16/2025 12:26	0.0	0.0	0.0	0.0	0.0	H2O
ATC-06D	4/16/2025 12:59	0.0	0.6	2.5	0.0	0.5	
ATC-06S	4/16/2025 12:57	0.0	0.0	20.0	0.0	0.1	
ATC-08D	4/16/2025 12:48	0.0	0.3	15.1	0.0	0.1	
ATC-08S	4/16/2025 12:46	0.0	1.6	14.8	0.0	0.1	
GP-0025	4/16/2025 15:28	0.0	2.6	14.1	0.0	0.0	
GP-0026	4/16/2025 15:32	0.0	0.8	18.0	0.0	0.0	
GP-0027	4/16/2025 15:36	0.0	9.3	7.2	0.0	0.1	
GP-0039	4/16/2025 10:21	0.0	0.6	18.5	0.0	0.1	
GP-0040	4/16/2025 10:25	0.0	0.0	18.1	0.0	0.1	
GP-0052	4/16/2025 14:22	0.0	0.0	0.0	0.0	0.0	Pump fail @ 10 sec
GP-0053	4/16/2025 14:24	0.0	0.1	19.3	0.0	0.3	
GP-0054	4/16/2025 14:26	0.0	0.0	19.8	0.0	0.1	
GP-005A	4/16/2025 12:14	0.0	0.2	15.6	0.0	0.5	
GP-011A	4/16/2025 11:07	0.0	0.0	20.9	0.0	0.1	
GP-011B	4/16/2025 11:08	0.0	0.3	18.0	0.0	0.1	
GP-011C	4/16/2025 11:10	0.0	0.1	15.7	0.0	0.1	
GP-011D	4/16/2025 11:11	0.0	0.0	20.9	0.0	0.1	
GP-012A	4/16/2025 11:43	0.0	0.0	20.3	0.0	0.0	
GP-012B	4/16/2025 11:45	0.0	0.0	20.2	0.0	0.0	
GP-012C	4/16/2025 11:47	0.0	0.1	18.7	0.0	0.0	
GP-012D	4/16/2025 11:48	0.0	0.1	18.2	0.0	0.1	
GP-013A	4/16/2025 11:33	0.0	0.0	20.6	0.0	0.1	
GP-013B	4/16/2025 11:35	0.0	0.0	20.6	0.0	0.0	
GP-013C	4/16/2025 11:37	0.0	0.0	19.4	0.0	0.1	
GP-013D	4/16/2025 11:39	0.0	0.1	19.8	0.0	0.6	
GP-014A	4/16/2025 11:56	0.0	0.0	19.6	0.0	0.4	
GP-014B	4/16/2025 11:58	0.0	0.0	19.7	0.0	0.1	
GP-015A	4/16/2025 12:19	0.0	0.0	20.4	0.0	0.0	
GP-015C	4/16/2025 12:21	0.0	0.5	17.5	0.0	0.0	
GP-015D	4/16/2025 12:23	0.0	0.0	20.5	0.0	0.0	
GP-016A	4/16/2025 12:50	0.0	0.0	19.8	0.0	0.1	
GP-016B	4/16/2025 12:52	0.0	0.0	19.8	0.0	0.3	
GP-016C	4/16/2025 12:54	0.0	0.2	17.5	0.0	0.8	
GP-017A	4/16/2025 14:41	0.0	0.0	0.0	0.0	0.0	H2O
GP-017B	4/16/2025 14:44	0.0	0.7	16.8	0.0	0.0	
GP-017C	4/16/2025 14:46	0.0	0.0	20.2	0.0	0.9	
GP-018A	4/16/2025 14:48	0.0	0.0	0.0	0.0	0.0	H2O
GP-018B	4/16/2025 14:49	0.0	0.2	13.1	0.0	0.1	
GP-018C	4/16/2025 14:51	0.0	0.1	18.0	0.0	1.1	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - April

Bar.Start: 30.02
Bar Stop: 29.97
Amb. Temp: 53
Tech: CC, LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-019A	4/16/2025 14:54	0.0	0.0	20.3	0.0	0.0	
GP-019B	4/16/2025 14:55	0.0	0.5	15.4	0.0	0.1	
GP-019C	4/16/2025 14:57	0.0	0.0	20.3	0.0	0.1	
GP-020A	4/16/2025 14:59	0.0	0.0	20.4	0.0	0.3	
GP-020B	4/16/2025 15:01	0.0	0.2	19.0	0.0	0.1	
GP-020C	4/16/2025 15:02	0.0	0.0	0.0	0.0	0.0	Pump fail @ 30 sec
GP-021A	4/16/2025 15:05	0.0	0.0	20.5	0.0	0.1	
GP-021B	4/16/2025 15:06	0.0	0.1	8.8	0.0	0.4	
GP-021C	4/16/2025 15:07	0.0	0.0	0.0	0.0	0.0	Pump fail @ 30 sec
GP-022A	4/16/2025 15:11	0.0	0.0	0.0	0.0	0.0	Pump fail @ 30 sec
GP-022C	4/16/2025 15:12	0.0	0.6	3.3	0.0	-0.3	
GP-023A	4/16/2025 15:16	0.0	0.0	20.5	0.0	0.0	
GP-023B	4/16/2025 15:18	0.0	0.0	20.5	0.0	0.0	
GP-023C	4/16/2025 15:19	0.0	0.0	20.5	0.0	0.1	
GP-024A	4/16/2025 15:23	0.0	4.2	10.9	0.0	0.0	
GP-024B	4/16/2025 15:25	0.0	0.2	20.3	0.0	0.0	
GP-029A	4/16/2025 15:40	0.0	2.0	16.6	0.0	0.1	
GP-029B	4/16/2025 15:41	0.0	0.7	19.3	0.0	0.0	
GP-030A	4/16/2025 9:15	0.0	2.4	17.4	0.0	0.1	
GP-030B	4/16/2025 9:17	0.0	0.2	21.0	0.0	-0.4	
GP-031A	4/16/2025 9:20	0.0	0.0	21.0	0.0	0.1	
GP-031B	4/16/2025 9:24	0.0	0.3	15.7	0.0	1.1	
GP-031C	4/16/2025 9:26	0.0	0.0	20.8	0.0	0.1	
GP-032A	4/16/2025 9:29	0.0	0.7	18.5	0.0	0.1	
GP-032B	4/16/2025 9:30	0.0	0.0	20.8	0.0	0.0	
GP-032C	4/16/2025 9:32	0.0	0.1	20.7	0.0	0.1	
GP-033A	4/16/2025 9:35	0.0	0.1	20.8	0.0	0.0	
GP-033B	4/16/2025 9:37	0.0	0.0	20.9	0.0	0.1	
GP-033C	4/16/2025 9:38	0.0	0.0	20.9	0.0	-0.6	
GP-034A	4/16/2025 9:41	0.0	0.0	0.0	0.0	0.0	H2O
GP-034B	4/16/2025 9:44	0.0	0.2	20.1	0.0	0.0	
GP-034C	4/16/2025 9:46	0.0	0.0	20.4	0.0	0.5	
GP-035A	4/16/2025 9:52	0.0	0.1	20.8	0.0	0.1	
GP-035B	4/16/2025 9:54	0.0	0.0	20.8	0.0	0.1	
GP-035C	4/16/2025 9:56	0.0	0.1	20.7	0.0	0.1	
GP-036A	4/16/2025 10:00	0.0	0.2	10.8	0.0	0.1	
GP-036B	4/16/2025 10:02	0.0	0.0	20.7	0.0	0.1	
GP-036C	4/16/2025 10:04	0.0	0.1	18.7	0.0	0.1	
GP-037A	4/16/2025 10:08	0.0	0.0	0.0	0.0	0.0	H2O
GP-037B	4/16/2025 10:12	0.0	0.0	20.6	0.0	-0.1	
GP-037C	4/16/2025 10:13	0.0	0.5	2.0	0.0	0.1	
GP-041A	4/16/2025 10:29	0.0	0.0	20.1	0.0	0.1	
GP-041B	4/16/2025 10:30	0.0	0.1	19.6	0.0	0.0	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - April

Bar.Start: 30.02
Bar Stop: 29.97
Amb. Temp: 53
Tech: CC, LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-041C	4/16/2025 10:33	0.0	0.0	20.2	0.0	0.0	
GP-042A	4/16/2025 10:36	0.0	0.1	19.8	0.0	-0.2	
GP-042B	4/16/2025 10:40	0.0	0.4	17.9	0.0	0.2	
GP-043A	4/16/2025 10:42	0.0	0.0	0.0	0.0	0.0	Pump fail @ 5 sec
GP-043B	4/16/2025 10:44	0.0	0.0	20.7	0.0	0.1	
GP-043C	4/16/2025 10:46	0.0	0.1	19.8	0.0	0.1	
GP-044A	4/16/2025 10:51	0.0	0.0	20.5	0.0	0.0	
GP-044B	4/16/2025 10:53	0.0	0.5	14.1	0.0	0.1	
GP-044C	4/16/2025 10:55	0.0	0.0	20.6	0.0	0.1	
GP-045D	4/16/2025 11:04	0.0	0.1	20.3	0.0	0.2	
GP-045I	4/16/2025 11:02	0.0	0.0	19.6	0.0	0.0	
GP-045S	4/16/2025 11:00	0.0	0.0	20.7	0.0	0.0	
GP-047D	4/16/2025 14:35	0.0	1.1	14.7	0.0	0.0	
GP-047I	4/16/2025 14:33	57.3	20.9	0.0	>>>>	1.3	
GP-047S	4/16/2025 14:31	38.8	13.7	0.1	>>>>	1.3	
GP-05BA	4/16/2025 12:05	0.0	0.0	0.0	0.0	0.0	H20
GP-05BB	4/16/2025 12:08	0.0	1.5	16.8	0.0	0.3	
GP-05BC	4/16/2025 12:10	0.0	1.1	17.0	0.0	0.6	
GP-05BD	4/16/2025 12:12	0.0	0.8	9.9	0.0	0.6	
GP-063A	4/16/2025 12:36	0.0	0.0	0.0	0.0	0.0	Pump fail @ 45 sec
GP-063B	4/16/2025 12:38	0.0	0.0	20.4	0.0	0.1	
GP-063C	4/16/2025 12:41	0.0	0.1	20.1	0.0	0.5	
GP-064A	4/16/2025 13:02	0.0	0.0	0.0	0.0	0.0	Pump fail @ 45 sec
GP-064B	4/16/2025 13:04	0.0	3.5	14.0	0.0	0.1	
GP-064C	4/16/2025 13:07	0.0	0.2	20.0	0.0	0.4	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - May

Bar.Start: 30.00
Bar Stop: 30.02
Amb. Temp: 53
Tech: RH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0061	5/14/2025 21:23	0	0.1	20.3	0	-0.86	
GP-0062	5/14/2025 21:25	0	1.6	18.7	0	-0.04	
GP-0009	5/14/2025 21:31	0	0.1	20.4	0	-1.97	
GP-0059	5/14/2025 21:39	0	0.1	20.6	0	-0.3	
GP-0060	5/14/2025 21:42	0	0.1	20.7	0	-0.08	
GP-0057	5/14/2025 21:46	46.7	22.4	3	>>>>	-10.19	
GP-0058	5/14/2025 21:52	0	1.5	20.1	0	-3.09	
GP-0055	5/14/2025 22:08	0	0.6	20.7	0	-0.09	
GP-0056	5/14/2025 22:10	0	0.9	17.4	0	0.01	
GP-0008	5/14/2025 22:15	0	0.1	20.8	0	-1.84	
GP-0007	5/14/2025 22:19	0	0.1	20.8	0	-1.84	
GP-001A	5/14/2025 22:27	0	4.9	13.8	0	-0.01	
GP-001B	5/14/2025 22:30	0	0.2	20.6	0	0.01	
GP-006A	5/14/2025 22:34	0	0.1	20.9	0	-2.29	
GP-006B	5/14/2025 22:35	0	0.1	21	0	-1.88	
GP-006C	5/14/2025 22:37	0	0.1	21	0	-1.82	
GP-006D	5/14/2025 22:39	0	0.1	21	0	-2.43	
GP-006E	5/14/2025 22:41	0	0.1	21	0	-1.84	
GP-006F	5/14/2025 22:42	0	0.1	21	0	-1.83	
GP-006G	5/14/2025 22:44	0	0.1	21	0	-1.82	
GP-006H	5/14/2025 22:46	0	0.1	21	0	-2.56	
GP-002A	5/14/2025 22:52	0	7.4	13.6	0	0.02	
GP-002B	5/14/2025 22:53	0	0.2	20.6	0	-0.01	
GP-004A	5/14/2025 22:59	0	0.1	20.7	0	-0.01	
GP-004B	5/14/2025 23:00	0	0.1	20.7	0	-0.04	
GB-4one	5/14/2025 23:08	0	5.8	14.4	0	-2.51	
GB-4two	5/14/2025 23:10	0	0.1	20.6	0	-1.58	
GP-0003	5/14/2025 23:13	0	10.4	12.8	0	-0.01	
GP-046S	5/14/2025 23:18	0	0.1	20.2	0	-0.07	
GP-046I	5/14/2025 23:20	11.9	1.1	6.2	>>>>	-0.38	
GP-046D	5/14/2025 23:27	0	0.1	20.5	0	-1.17	
GP-048S	5/14/2025 23:32	0	0.4	17.9	0	-0.03	
GP-048I	5/14/2025 23:34	0	0.2	20.4	0	-0.19	
GP-048D	5/14/2025 23:36	0	0.1	20.6	0	-1.65	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - May

Bar.Start: 29.90
Bar Stop: 29.95
Amb. Temp:
Tech: GC, RK

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	5/19/2025 10:32	0.0	0.3	19.8	79.9	0.02	
ATC-01S	5/19/2025 10:30	0.0	0.5	17.3	82.2	0	
ATC-03D	5/19/2025 11:22	0.0	0.2	20.2	79.6	0.01	
ATC-03S	5/19/2025 11:20	0.0	0.1	20.6	79.3	0	
ATC-06D	5/19/2025 11:42	0.0	0.8	3.1	96.1	0.01	
ATC-06S	5/19/2025 11:40	0.0	1.8	16.8	81.4	0.01	
ATC-08D	5/19/2025 11:55	0.0	0.3	19.2	80.5	-0.01	
ATC-08S	5/19/2025 11:54	0.0	2.6	16.4	81.0	0	
GP-0025	5/19/2025 14:12	0.0	3.5	13.9	82.6	0.03	
GP-0026	5/19/2025 14:16	0.0	0.9	16.2	82.9	-0.01	
GP-0027	5/19/2025 14:29	0.0	10.6	7.3	82.1	0.03	
GP-0039	5/19/2025 8:40	0.0	1.3	17.9	80.8	0.02	
GP-0040	5/19/2025 8:45	0.0	0.1	17.2	82.7	0.04	
GP-0052	5/19/2025 10:04	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-0053	5/19/2025 10:06	0.0	0.3	19.4	80.3	0.02	
GP-0054	5/19/2025 10:00	0.0	0.1	20.3	79.6	-0.02	
GP-005A	5/19/2025 11:10	0.0	0.1	20.6	79.3	-0.59	
GP-011A	5/19/2025 10:18	0.0	0.1	20.0	79.9	0	
GP-011B	5/19/2025 10:20	0.0	0.1	20.0	79.9	0	
GP-011C	5/19/2025 10:21	0.0	0.1	20.0	79.9	0	
GP-011D	5/19/2025 10:23	0.0	0.1	20.0	79.9	0	
GP-012A	5/19/2025 10:39	0.0	0.1	20.1	79.8	0.01	
GP-012B	5/19/2025 10:41	0.0	0.1	20.1	79.8	-0.01	
GP-012C	5/19/2025 10:43	0.0	0.1	20.0	79.9	0	
GP-012D	5/19/2025 10:45	0.0	0.2	19.6	80.2	0.01	
GP-013A	5/19/2025 10:49	0.0	0.1	20.3	79.6	0.02	
GP-013B	5/19/2025 10:51	0.0	0.1	20.2	79.7	-0.01	
GP-013C	5/19/2025 10:53	0.0	0.1	20.3	79.6	0	
GP-013D	5/19/2025 10:54	0.0	0.1	20.1	79.8	0.01	
GP-014A	5/19/2025 11:00	0.0	0.1	20.4	79.5	0.01	
GP-014B	5/19/2025 11:03	0.0	0.1	20.5	79.4	-0.03	
GP-015A	5/19/2025 11:25	0.0	0.1	20.5	79.4	0	
GP-015C	5/19/2025 11:26	0.0	0.5	17.8	81.7	0	
GP-015D	5/19/2025 11:27	0.0	0.1	20.4	79.5	0.02	
GP-016A	5/19/2025 11:47	0.0	0.2	20.0	79.8	0.01	
GP-016B	5/19/2025 11:49	0.0	0.1	20.0	79.9	-0.02	
GP-016C	5/19/2025 11:50	0.0	0.1	20.3	79.6	-0.12	
GP-017A	5/19/2025 13:22	0.0	0.0	0.0	0.0	0	No Read H2O
GP-017B	5/19/2025 13:23	0.0	0.7	16.1	83.2	0.01	
GP-017C	5/19/2025 13:25	0.0	0.1	19.0	80.9	-0.51	
GP-018A	5/19/2025 13:28	0.0	1.9	12.7	85.4	-0.04	
GP-018B	5/19/2025 13:30	0.0	0.2	15.3	84.5	-0.02	
GP-018C	5/19/2025 13:31	0.0	0.2	17.2	82.6	-0.47	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - May

Bar.Start: 29.90
Bar Stop: 29.95
Amb. Temp:
Tech: GC, RK

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-019A	5/19/2025 13:35	0.0	0.1	19.4	80.5	-0.04	
GP-019B	5/19/2025 13:36	0.0	0.6	14.8	84.6	-0.02	
GP-019C	5/19/2025 13:38	0.0	0.1	19.5	80.4	-0.03	
GP-020A	5/19/2025 13:42	0.0	0.1	19.6	80.3	-0.02	
GP-020B	5/19/2025 13:43	0.0	0.3	14.7	85.0	-0.03	
GP-020C	5/19/2025 13:45	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-021A	5/19/2025 13:48	0.0	0.1	19.6	80.3	-0.02	
GP-021B	5/19/2025 13:49	0.0	0.1	8.6	91.3	0.04	
GP-021C	5/19/2025 13:51	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-022A	5/19/2025 13:54	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-022C	5/19/2025 13:56	0.0	1.0	2.6	96.4	-0.01	
GP-023A	5/19/2025 14:01	0.0	0.1	19.5	80.4	0	
GP-023B	5/19/2025 14:02	0.0	0.1	19.7	80.2	-0.02	
GP-023C	5/19/2025 14:03	0.0	0.1	19.8	80.1	-0.02	
GP-024A	5/19/2025 14:08	0.0	6.1	8.2	85.7	-0.02	
GP-024B	5/19/2025 14:09	0.0	0.7	17.4	81.9	-0.01	
GP-029A	5/19/2025 14:23	0.0	1.8	16.5	81.7	0.03	
GP-029B	5/19/2025 14:24	0.0	0.6	19.1	80.3	-0.01	
GP-030A	5/19/2025 7:18	0.0	2.2	18.1	79.7	-0.13	
GP-030B	5/19/2025 7:21	0.0	0.8	19.3	79.9	0.16	
GP-031A	5/19/2025 7:28	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-031B	5/19/2025 7:30	0.0	0.3	17.6	82.1	0.74	
GP-031C	5/19/2025 7:32	0.0	0.1	20.7	78.9	0.04	
GP-032A	5/19/2025 7:37	0.0	0.5	20.7	78.7	0.07	
GP-032B	5/19/2025 7:39	0.0	0.1	20.7	78.8	0.01	
GP-032C	5/19/2025 7:41	0.0	0.1	20.7	78.7	-0.04	
GP-033A	5/19/2025 7:46	0.0	5.3	8.8	85.9	0.04	
GP-033B	5/19/2025 7:48	0.0	0.1	20.7	78.6	0.06	
GP-033C	5/19/2025 7:50	0.0	0.1	20.7	78.7	0.07	
GP-034A	5/19/2025 7:57	0.0	0.0	0.0	0.0	0	No Read H2O
GP-034B	5/19/2025 7:59	0.0	0.2	20.7	78.3	0.05	
GP-034C	5/19/2025 8:02	0.0	0.1	20.7	78.3	0.45	
GP-035A	5/19/2025 8:07	0.0	0.3	20.7	78.3	0.01	
GP-035B	5/19/2025 8:08	0.0	0.1	20.7	78.2	0	
GP-035C	5/19/2025 8:10	0.0	0.1	20.7	78.3	0.02	
GP-036A	5/19/2025 8:14	0.0	0.3	3.7	96.0	0.35	
GP-036B	5/19/2025 8:18	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-036C	5/19/2025 8:20	0.0	0.2	15.6	84.2	0.64	
GP-037A	5/19/2025 8:26	0.0	0.0	0.0	0.0	0	No Read H2O
GP-037B	5/19/2025 8:31	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-037C	5/19/2025 9:30	0.0	0.6	1.8	97.6	0.45	
GP-041A	5/19/2025 8:50	0.0	0.1	20.6	79.3	-0.02	
GP-041B	5/19/2025 8:52	0.0	0.1	20.3	79.6	-0.02	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - May

Bar.Start: 29.90
Bar Stop: 29.95
Amb. Temp:
Tech: GC, RK

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-041C	5/19/2025 8:54	0.0	0.1	20.6	79.3	-0.01	
GP-042A	5/19/2025 9:03	0.0	0.0	0.0	0.0	0	No Read H2O
GP-042B	5/19/2025 9:02	0.0	0.4	20.1	79.5	0.04	
GP-043A	5/19/2025 9:08	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-043B	5/19/2025 9:12	0.0	0.0	0.0	0.0	0	No Read Pump Fail
GP-043C	5/19/2025 9:10	0.0	0.1	20.1	79.8	-0.02	
GP-044A	5/19/2025 9:15	0.0	0.1	20.5	79.4	-0.03	
GP-044B	5/19/2025 9:17	0.0	0.8	11.8	87.4	-0.02	
GP-044C	5/19/2025 9:19	0.0	0.1	20.5	79.4	-0.02	
GP-045D	5/19/2025 10:15	0.0	0.1	19.8	80.1	0.02	
GP-045I	5/19/2025 10:13	0.0	0.1	20.1	79.8	-0.02	
GP-045S	5/19/2025 10:11	0.0	0.1	20.1	79.8	-0.01	
GP-047D	5/19/2025 12:21	0.0	0.8	15.4	83.8	0.42	
GP-047I	5/19/2025 12:24	61.6	20.9	0.2	17.3	0	
GP-047S	5/19/2025 12:22	0.0	0.1	20.3	79.6	-0.03	
GP-05BA	5/19/2025 11:13	0.0	0.2	20.3	79.5	0.01	
GP-05BB	5/19/2025 11:14	0.0	0.1	20.6	79.3	-0.63	
GP-05BC	5/19/2025 11:16	0.0	0.1	20.6	79.3	-0.59	
GP-063A	5/19/2025 11:58	0.0	0.3	20.3	79.4	0.02	
GP-063B	5/19/2025 12:00	0.0	0.2	20.2	79.6	0	
GP-063C	5/19/2025 12:02	0.0	0.1	20.4	79.5	-0.01	
GP-064A	5/19/2025 11:36	0.0	0.2	20.3	79.5	0.01	
GP-064B	5/19/2025 11:32	0.0	1.9	17.3	80.8	0	
GP-064C	5/19/2025 11:34	0.0	0.1	20.3	79.6	0.03	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - June

Bar.Start: 29.90
Bar Stop: 29.90
Amb. Temp: 71 F
Tech: DNS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0062	6/11/2025 20:16	0.0	1.9	18.8	0	0	,,,,
GP-0061	6/11/2025 20:17	0.0	1.6	19.1	0	0.04	,,,,
GP-0009	6/11/2025 20:23	0.0	0.4	19.4	0	-0.49	,,,,
GP-0060	6/11/2025 20:28	0.0	0.2	20.4	0	0.05	,,,,
GP-0059	6/11/2025 20:30	0.0	0.4	20.4	0	0.03	,,,,
GP-0058	6/11/2025 20:35	1.0	23.5	0.0	20	0.07	,,,,
GP-0057	6/11/2025 20:37	51.1	24.9	0.1	>>>>	-10.33	,,,,
GP-0056	6/11/2025 20:41	0.0	1.3	18.7	0	-0.12	,,,,
GP-0055	6/11/2025 20:43	2.0	2.3	17.5	40	0.02	,,,,
GP-0008	6/11/2025 20:48	0.0	0.1	20.7	0	-0.72	,,,,
GP-0007	6/11/2025 20:52	0.0	0.3	20.1	0	-0.53	,,,,
GP-001A	6/11/2025 20:55	0.0	6.1	14.5	0	0.07	,,,,
GP-001B	6/11/2025 20:57	0.0	0.3	20.7	0	0.09	,,,,
GP-006A	6/11/2025 21:01	0.0	0.1	20.6	0	-0.51	,,,,
GP-006B	6/11/2025 21:03	0.0	1.7	13.4	0	-0.16	,,,,
GP-006C	6/11/2025 21:04	0.0	1.7	18.1	0	-0.1	,,,,
GP-006D	6/11/2025 21:06	0.0	0.1	20.9	0	-0.88	,,,,
GP-006E	6/11/2025 21:07	0.0	0.1	20.9	0	-0.41	,,,,
GP-006F	6/11/2025 21:09	0.0	1.2	13.5	0	-0.83	,,,,
GP-006G	6/11/2025 21:10	0.0	0.1	20.9	0	0.06	,,,,
GP-006H	6/11/2025 21:12	0.0	0.1	21.0	0	-0.78	,,,,
GP-002A	6/11/2025 21:17	0.0	7.1	14.3	0	0.06	,,,,
GP-002B	6/11/2025 21:19	0.0	0.2	21.0	0	0.03	,,,,
GP-004A	6/11/2025 21:25	0.0	9.3	12.4	0	0.06	,,,,
GP-004B	6/11/2025 21:27	0.0	0.1	21.0	0	0.05	,,,,
GB-4one	6/11/2025 21:30	0.0	6.3	13.8	0	-1.55	,,,,
GB-4two	6/11/2025 21:32	0.0	2.0	19.1	0	-0.88	,,,,
GP-0003	6/11/2025 21:37	0.0	10.6	13.1	0	-0.46	,,,,
GP-046S	6/11/2025 21:41	0.0	0.1	19.6	0	-0.01	,,,,
GP-046I	6/11/2025 21:42	16.7	1.5	0.0	>>>>	0.69	,,,,
GP-046D	6/11/2025 21:44	0.0	0.1	21.0	0	-0.44	,,,,
GP-048S	6/11/2025 21:51	0.0	0.5	17.5	0	-0.04	,,,,
GP-048I	6/11/2025 21:53	0.0	0.2	20.9	0	-0.15	,,,,
GP-048D	6/11/2025 21:55	0.0	0.1	21.0	0	0.03	,,,,

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - June

Bar.Start: 29.95
Bar Stop: 29.97
Amb. Temp: 53 F
Tech: JS LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	6/13/2025 9:03	0.0	0.1	20.9	0.0	0.0	
ATC-01S	6/13/2025 9:01	0.0	3.4	16.2	0.0	0.0	
ATC-03D	6/13/2025 10:24	0.0	0.1	20.7	0.0	0.0	
ATC-03S	6/13/2025 10:22	0.0	0.1	20.6	0.0	0.0	
ATC-06D	6/13/2025 10:52	0.0	0.7	8.4	0.0	1.7	
ATC-06S	6/13/2025 10:51	0.0	2.0	18.3	0.0	1.0	
ATC-08D	6/13/2025 10:42	0.0	0.2	19.8	0.0	0.0	
ATC-08S	6/13/2025 10:41	0.0	2.5	18.0	0.0	0.1	
GP-0025	6/13/2025 13:48	0.0	3.7	15.5	0.0	0.0	
GP-0026	6/13/2025 13:51	0.0	0.9	17.3	0.0	0.0	
GP-0027	6/13/2025 13:55	0.0	11.3	7.6	0.0	0.6	
GP-0039	6/13/2025 8:02	0.0	1.7	18.1	0.0	0.0	
GP-0040	6/13/2025 8:08	0.0	0.1	16.8	0.0	0.0	
GP-0052	6/13/2025 11:07	0.0	4.2	15.2	0.0	0.0	
GP-0053	6/13/2025 11:09	0.0	0.3	19.4	0.0	0.4	
GP-0054	6/13/2025 11:11	0.0	0.1	20.5	0.0	0.0	
GP-005A	6/13/2025 10:08	0.0	0.1	20.7	0.0	-1.5	
GP-011A	6/13/2025 8:47	0.0	0.1	21.0	0.0	0.0	
GP-011B	6/13/2025 8:48	0.0	0.1	21.0	0.0	0.0	
GP-011C	6/13/2025 8:50	0.0	0.1	21.0	0.0	0.0	
GP-011D	6/13/2025 8:51	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-012A	6/13/2025 9:20	0.0	0.1	21.0	0.0	0.0	
GP-012B	6/13/2025 9:21	0.0	0.1	21.0	0.0	0.0	
GP-012C	6/13/2025 9:23	0.0	0.2	20.9	0.0	0.0	
GP-012D	6/13/2025 9:25	0.0	0.2	21.0	0.0	0.0	
GP-013A	6/13/2025 9:09	0.0	2.2	18.7	0.0	0.0	
GP-013B	6/13/2025 9:11	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-013C	6/13/2025 9:12	0.0	0.1	21.0	0.0	0.0	
GP-013D	6/13/2025 9:15	0.0	0.1	21.0	0.0	0.0	
GP-014A	6/13/2025 9:32	0.0	0.1	21.0	0.0	-0.6	
GP-014B	6/13/2025 9:33	0.0	0.1	21.0	0.0	0.7	
GP-015A	6/13/2025 10:14	0.0	0.1	20.6	0.0	0.0	
GP-015C	6/13/2025 10:15	0.0	0.6	17.7	0.0	1.2	
GP-015D	6/13/2025 10:17	0.0	0.1	20.6	0.0	0.1	
GP-016A	6/13/2025 10:45	0.0	4.5	15.5	0.0	0.0	
GP-016B	6/13/2025 10:46	0.0	0.2	20.1	0.0	0.0	
GP-016C	6/13/2025 10:48	0.0	0.1	20.6	0.0	1.1	
GP-017A	6/13/2025 12:50	0.0	0.0	0.0	0.0	0.0	No Read H2O
GP-017B	6/13/2025 12:53	0.0	0.5	17.7	0.0	0.0	
GP-017C	6/13/2025 12:55	0.0	0.0	19.8	0.0	-1.2	
GP-018A	6/13/2025 12:59	0.0	2.2	14.8	0.0	0.0	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - June

Bar.Start: 29.95
Bar Stop: 29.97
Amb. Temp: 53 F
Tech: JS LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-018B	6/13/2025 13:00	0.0	0.3	13.3	0.0	0.6	
GP-018C	6/13/2025 13:02	0.0	0.1	20.0	0.0	0.0	
GP-019A	6/13/2025 13:06	0.0	0.0	20.3	0.0	0.0	
GP-019B	6/13/2025 13:08	0.0	0.5	15.9	0.0	0.0	
GP-019C	6/13/2025 13:09	0.0	0.0	20.4	0.0	0.0	
GP-020A	6/13/2025 13:13	0.0	0.1	20.3	0.0	0.0	
GP-020B	6/13/2025 13:15	0.0	0.3	15.1	0.0	0.7	
GP-020C	6/13/2025 13:18	0.0	0.2	6.2	0.0	0.0	
GP-021A	6/13/2025 13:21	0.0	0.0	20.6	0.0	0.0	
GP-021B	6/13/2025 13:24	0.0	0.1	9.4	0.0	0.0	
GP-021C	6/13/2025 13:25	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-022A	6/13/2025 13:29	0.0	2.4	13.6	0.0	0.0	
GP-022C	6/13/2025 13:30	0.0	0.5	3.7	0.0	-1.0	
GP-023A	6/13/2025 13:36	0.0	0.1	20.4	0.0	0.0	
GP-023B	6/13/2025 13:37	0.0	0.0	20.5	0.0	0.9	
GP-023C	6/13/2025 13:39	0.0	0.0	20.6	0.0	1.5	
GP-024A	6/13/2025 13:43	0.0	6.2	10.9	0.0	0.0	
GP-024B	6/13/2025 13:44	0.0	0.5	18.8	0.0	0.0	
GP-029A	6/13/2025 14:00	0.0	1.6	17.5	0.0	0.0	
GP-029B	6/13/2025 14:02	0.0	0.6	19.8	0.0	0.4	
GP-030A	6/13/2025 7:00	0.0	0.8	19.9	0.0	0.0	
GP-030B	6/13/2025 7:02	0.0	0.2	20.5	0.0	-0.8	
GP-031A	6/13/2025 7:07	0.0	0.0	0.0	0.0	0.0	No Read H2O
GP-031B	6/13/2025 7:10	0.0	0.2	18.5	0.0	-0.6	
GP-031C	6/13/2025 7:11	0.0	0.1	20.9	0.0	0.1	
GP-032A	6/13/2025 7:16	0.0	0.1	21.0	0.0	0.0	
GP-032B	6/13/2025 7:18	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-032C	6/13/2025 7:19	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-033A	6/13/2025 7:24	0.0	5.8	13.0	0.0	0.6	
GP-033B	6/13/2025 7:26	0.0	0.1	21.0	0.0	1.2	
GP-033C	6/13/2025 7:27	0.0	0.1	21.0	0.0	-1.0	
GP-034A	6/13/2025 7:31	0.0	0.0	0.0	0.0	0.0	No Read H2O
GP-034B	6/13/2025 7:34	0.0	0.1	20.7	0.0	0.1	
GP-034C	6/13/2025 7:35	0.0	0.1	20.8	0.0	-0.7	
GP-035A	6/13/2025 7:39	0.0	0.2	20.6	0.0	0.0	
GP-035B	6/13/2025 7:40	0.0	0.1	20.8	0.0	0.1	
GP-035C	6/13/2025 7:42	0.0	0.1	20.8	0.0	0.7	
GP-036A	6/13/2025 7:45	0.0	0.3	2.2	0.0	0.3	
GP-036B	6/13/2025 7:47	0.0	0.1	20.7	0.0	0.3	
GP-036C	6/13/2025 7:48	0.0	0.3	17.0	0.0	-0.5	
GP-037A	6/13/2025 7:53	0.0	0.0	0.0	0.0	0.0	No Read H2O

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - June

Bar.Start: 29.95
Bar Stop: 29.97
Amb. Temp: 53 F
Tech: JS LM

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-037B	6/13/2025 7:55	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-037C	6/13/2025 7:57	0.0	0.6	2.7	0.0	0.0	
GP-041A	6/13/2025 8:11	0.0	3.7	17.4	0.0	0.0	
GP-041B	6/13/2025 8:12	0.0	0.1	20.8	0.0	0.0	
GP-041C	6/13/2025 8:14	0.0	0.1	20.9	0.0	0.0	
GP-042A	6/13/2025 8:19	0.0	0.0	0.0	0.0	0.0	No Read H2O
GP-042B	6/13/2025 8:21	0.0	0.3	20.5	0.0	0.8	
GP-043A	6/13/2025 8:25	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-043B	6/13/2025 8:26	0.0	0.1	20.8	0.0	0.0	
GP-043C	6/13/2025 8:28	0.0	0.1	20.5	0.0	0.5	
GP-044A	6/13/2025 8:32	0.0	0.2	20.7	0.0	0.0	
GP-044B	6/13/2025 8:33	0.0	0.3	20.1	0.0	0.4	
GP-044C	6/13/2025 8:35	0.0	0.1	20.9	0.0	0.0	
GP-045D	6/13/2025 8:44	0.0	0.1	21.0	0.0	-0.4	
GP-045I	6/13/2025 8:41	0.0	0.1	20.9	0.0	2.6	
GP-045S	6/13/2025 8:40	0.0	0.1	20.9	0.0	2.0	
GP-047D	6/13/2025 11:21	0.0	1.5	17.4	0.0	0.0	
GP-047I	6/13/2025 11:19	0.0	0.0	20.6	0.0	0.0	
GP-047S	6/13/2025 11:18	0.0	0.1	20.5	0.0	-0.9	
GP-05BA	6/13/2025 10:00	0.0	0.2	20.6	0.0	0.1	
GP-05BB	6/13/2025 10:02	0.0	0.2	20.7	0.0	0.0	
GP-05BC	6/13/2025 10:03	0.0	0.2	20.7	0.0	-1.5	
GP-05BD	6/13/2025 10:05	0.0	0.2	20.7	0.0	3.8	
GP-063A	6/13/2025 10:30	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-063B	6/13/2025 10:32	0.0	0.1	20.6	0.0	0.0	
GP-063C	6/13/2025 10:34	0.0	0.1	20.7	0.0	4.7	
GP-064A	6/13/2025 10:56	0.0	0.0	0.0	0.0	0.0	No Read Flow Fail
GP-064B	6/13/2025 10:58	0.0	1.6	18.0	0.0	0.0	
GP-064C	6/13/2025 11:00	0.0	0.1	20.6	0.0	-1.2	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - July

Bar.Start:	**29.97**
Bar Stop:	**29.93**
Amb. Temp:	**75**
Tech:	**CS**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	7/14/2025 10:47	0.0	0.0	20.9	0	0.01	
ATC-01S	7/14/2025 10:46	0.0	2.9	18.8	0	0.02	
ATC-03D	7/14/2025 11:37	0.0	0.4	20.4	0	0.01	
ATC-03S	7/14/2025 11:36	0.0	8.2	11.0	0	0.05	
ATC-06D	7/14/2025 12:07	0.0	0.4	21.0	0	-0.19	
ATC-06S	7/14/2025 12:06	0.0	1.9	19.9	0	-0.02	
ATC-08D	7/14/2025 11:57	0.0	0.2	19.0	0	0.04	
ATC-08S	7/14/2025 11:56	0.0	2.1	19.8	0	0.04	
GP-0025	7/14/2025 15:26	0.0	3.9	17.6	0	0.02	
GP-0026	7/14/2025 15:34	0.0	0.8	18.6	0	0.08	
GP-0027	7/14/2025 15:38	0.0	11.9	9.8	0	0.04	
GP-0039	7/14/2025 8:42	0.0	1.8	18.9	0	0.02	
GP-0040	7/14/2025 8:47	0.0	0.0	17.3	0	0.03	
GP-0052	7/14/2025 9:59	0.0	2.9	17.8	0	-0.01	
GP-0053	7/14/2025 10:02	0.0	0.1	20.8	0	0.02	
GP-0054	7/14/2025 9:57	0.0	0.0	21.0	0	0.01	
GP-005A	7/14/2025 11:21	0.0	0.0	21.0	0	0.48	
GP-011A	7/14/2025 10:15	0.0	1.3	19.4	0	-0.02	
GP-011B	7/14/2025 10:16	0.0	0.1	20.6	0	0.08	
GP-011C	7/14/2025 10:17	0.0	0.0	20.7	0	0.09	
GP-011D	7/14/2025 10:18	0.0	0.1	20.6	0	0.39	
GP-012A	7/14/2025 10:53	0.0	0.7	19.9	0	0.03	
GP-012B	7/14/2025 10:55	0.0	0.0	21.0	0	-0.03	
GP-012C	7/14/2025 10:58	0.0	0.1	21.0	0	0.04	
GP-012D	7/14/2025 10:59	0.0	0.1	21.0	0	0.05	
GP-013A	7/14/2025 11:03	0.0	2.0	19.7	0	0.01	
GP-013B	7/14/2025 11:04	0.0	0.0	21.0	0	-0.02	
GP-013C	7/14/2025 11:05	0.0	0.0	21.0	0	0.04	
GP-013D	7/14/2025 11:07	0.0	0.0	21.0	0	0.06	
GP-014A	7/14/2025 11:11	0.0	0.0	21.0	0	-0.04	
GP-014B	7/14/2025 11:13	0.0	0.0	21.0	0	-0.12	
GP-015A	7/14/2025 11:41	0.0	0.1	21.0	0	0.05	
GP-015C	7/14/2025 11:42	0.0	0.5	19.0	0	-0.02	
GP-015D	7/14/2025 11:43	0.0	0.0	21.0	0	-0.70	
GP-016A	7/14/2025 12:00	0.0	3.0	19.3	0	0.06	
GP-016B	7/14/2025 12:01	0.0	0.1	21.0	0	-0.11	
GP-016C	7/14/2025 12:03	0.0	0.1	21.0	0	0.25	
GP-017A	7/14/2025 14:16	0.0	0.2	17.7	0	-54.94	
GP-017B	7/14/2025 14:17	0.0	0.7	18.2	0	0.05	
GP-017C	7/14/2025 14:18	0.0	0.0	20.8	0	0.29	
GP-018A	7/14/2025 14:23	0.0	3.0	16.8	0	0.01	
GP-018B	7/14/2025 14:24	0.0	0.3	15.7	0	0.14	
GP-018C	7/14/2025 14:25	0.0	0.1	19.0	0	0.67	
GP-019A	7/14/2025 14:31	0.0	1.3	18.6	0	0.02	
GP-019B	7/14/2025 14:32	0.0	0.5	16.7	0	-0.08	
GP-019C	7/14/2025 14:33	0.0	0.0	20.8	0	0.06	
GP-020A	7/14/2025 14:38	0.0	1.1	20.1	0	0.07	
GP-020B	7/14/2025 14:39	0.0	0.3	18.8	0	-0.03	
GP-020C	7/14/2025 14:41	0.0	0.2	10.4	0	0.42	
GP-021A	7/14/2025 14:45	0.0	0.1	20.2	0	0.05	
GP-021B	7/14/2025 14:46	0.0	0.1	9.0	0	0.59	
GP-021C	7/14/2025 14:47	0.0	3.0	10.8	0	-0.27	
GP-022A	7/14/2025 14:56	0.0	2.5	16.5	0	0.01	
GP-022C	7/14/2025 14:58	0.0	0.2	5.5	0	0.56	
GP-023A	7/14/2025 15:13	0.0	0.1	21.0	0	0.05	
GP-023B	7/14/2025 15:15	0.0	0.0	21.0	0	-0.04	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - July

Bar.Start:	**29.97**
Bar Stop:	**29.93**
Amb. Temp:	**75**
Tech:	**CS**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-023C	7/14/2025 15:16	0.0	0.0	21.0	0	0.05	
GP-024A	7/14/2025 15:21	0.0	6.1	14.5	0	0.00	
GP-024B	7/14/2025 15:23	0.0	0.9	20.7	0	0.19	
GP-029A	7/14/2025 15:43	0.0	1.7	17.8	0	-0.04	
GP-029B	7/14/2025 15:44	0.0	0.6	20.6	0	0.02	
GP-030A	7/14/2025 7:24	0.0	1.0	20.5	0	0.06	
GP-030B	7/14/2025 7:25	0.0	1.1	20.4	0	-0.50	
GP-031A	7/14/2025 7:29	0.0	7.7	10.3	0	-0.20	
GP-031B	7/14/2025 7:30	0.0	0.3	17.0	0	-0.05	
GP-031C	7/14/2025 7:32	0.0	0.1	20.7	0	0.00	
GP-032A	7/14/2025 7:34	0.0	0.1	21.0	0	-0.06	
GP-032B	7/14/2025 7:36	0.0	0.2	20.9	0	0.00	
GP-032C	7/14/2025 7:37	0.0	0.5	20.6	0	0.08	
GP-033A	7/14/2025 7:40	0.0	5.6	15.1	0	-0.01	
GP-033B	7/14/2025 7:41	0.0	0.7	17.7	0	0.31	
GP-033C	7/14/2025 7:42	0.0	0.1	20.9	0	-0.56	
GP-034A	7/14/2025 8:03	0.0	12.0	0.9	0	-10.49	
GP-034B	7/14/2025 8:05	0.0	0.2	20.5	0	-0.05	
GP-034C	7/14/2025 8:07	0.0	0.1	20.4	0	0.33	
GP-035A	7/14/2025 8:15	0.0	8.8	7.6	0	0.06	
GP-035B	7/14/2025 8:16	0.0	0.1	20.4	0	0.00	
GP-035C	7/14/2025 8:17	0.0	0.1	21.0	0	0.00	
GP-036A	7/14/2025 8:22	0.0	1.5	20.1	0	-0.49	
GP-036B	7/14/2025 8:24	0.0	3.2	16.6	0	-0.01	
GP-036C	7/14/2025 8:26	0.0	0.3	11.3	0	0.09	
GP-037A	7/14/2025 8:31	0.0	0.4	10.4	0	-19.72	
GP-037B	7/14/2025 8:32	0.0	0.2	16.9	0	0.61	
GP-037C	7/14/2025 8:33	0.0	0.6	2.1	0	0.53	
GP-041A	7/14/2025 8:53	0.0	3.1	16.4	0	-0.02	
GP-041B	7/14/2025 8:55	0.0	0.9	6.4	0	0.03	
GP-041C	7/14/2025 8:56	0.0	0.1	20.0	0	-0.05	
GP-042A	7/14/2025 8:59	0.0	2.9	19.4	0	0.03	
GP-042B	7/14/2025 9:01	0.0	0.6	20.2	0	0.05	
GP-043A	7/14/2025 9:06	0.0	0.4	20.2	0	0.39	
GP-043B	7/14/2025 9:07	0.0	0.0	21.0	0	0.01	
GP-043C	7/14/2025 9:09	0.0	0.1	20.7	0	0.04	
GP-044A	7/14/2025 9:24	0.0	0.2	20.9	0	0.07	
GP-044B	7/14/2025 9:26	0.0	0.4	19.0	0	-0.01	
GP-044C	7/14/2025 9:28	0.0	0.0	21.0	0	0.02	
GP-045D	7/14/2025 10:24	0.0	0.0	20.5	0	0.03	
GP-045I	7/14/2025 10:22	0.0	0.0	20.5	0	0.00	
GP-045S	7/14/2025 10:21	0.0	0.0	20.5	0	-0.03	
GP-047D	7/14/2025 14:04	0.0	1.8	16.4	0	0.08	
GP-047I	7/14/2025 14:03	0.0	1.1	18.8	0	0.48	
GP-047S	7/14/2025 14:01	12.1	10.9	<<<<	>>>>	0.76	
GP-05BA	7/14/2025 11:26	0.0	0.1	21.0	0	0.10	
GP-05BB	7/14/2025 11:28	0.0	0.1	21.0	0	-0.27	
GP-05BC	7/14/2025 11:29	0.0	0.1	21.0	0	-0.18	
GP-05BD	7/14/2025 11:30	0.0	1.3	21.0	0	-0.08	
GP-063A	7/14/2025 11:49	0.0	8.2	14.9	0	0.03	
GP-063B	7/14/2025 11:50	0.0	0.3	20.7	0	-0.04	
GP-063C	7/14/2025 11:52	0.0	0.1	21.0	0	0.06	
GP-064A	7/14/2025 12:11	0.0	0.2	21.0	0	0.17	
GP-064B	7/14/2025 12:12	0.0	2.2	17.6	0	0.09	
GP-064C	7/14/2025 12:14	0.0	0.1	21.0	0	-0.07	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - July

Bar.Start:	**29.73**
Bar Stop:	**29.76**
Amb. Temp:	**71**
Tech:	**SB**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	7/17/2025 0:54	0	6	13.7	0	1.26	
GB-4two	7/17/2025 0:55	0	1.9	19.3	0	1.57	
GP-0003	7/17/2025 0:58	0	13.6	11.4	0	-0.42	
GP-0007	7/17/2025 0:12	0	2.6	13.1	0	0	
GP-0008	7/17/2025 0:09	0	1.3	16.2	0	1.32	
GP-0009	7/16/2025 23:28	0	0.1	20.5	0	1.87	
GP-001A	7/17/2025 0:15	0	7.2	14.9	0	0	
GP-001B	7/17/2025 0:17	0	0.8	20.6	0	-0.02	
GP-002A	7/17/2025 0:39	0	8.2	12.8	0	0.01	
GP-002B	7/17/2025 0:40	0	0.1	21	0	0	
GP-004A	7/17/2025 0:48	0	5.6	17.2	0	0	
GP-004B	7/17/2025 0:50	0	0.1	21	0	0.04	
GP-0055	7/17/2025 0:02	0	0.2	20.5	0	0.09	
GP-0056	7/17/2025 0:04	0	1.8	17.6	0	-0.03	
GP-0057	7/16/2025 23:54	50.5	25.2	0.7	>>>>	-7.85	
GP-0058	7/16/2025 23:56	0.1	23	0	2	0	
GP-0059	7/16/2025 23:43	33.1	11.6	0.1	>>>>	0.33	
GP-0060	7/16/2025 23:45	0	0.1	20.7	0	0.06	
GP-0061	7/16/2025 23:15	0	2.2	19.1	0	1.29	
GP-0062	7/16/2025 23:17	0	1.5	19.5	0	-0.02	
GP-006A	7/17/2025 0:24	0	1.5	10.8	0	1.88	
GP-006B	7/17/2025 0:26	0	2.3	7.7	0	2.4	
GP-006C	7/17/2025 0:27	0	0.6	17.6	0	2.24	
GP-006D	7/17/2025 0:29	0	3.7	2	0	1.78	
GP-006E	7/17/2025 0:30	0	0.1	21	0	2.42	
GP-006F	7/17/2025 0:32	0	0.1	20.4	0	2.4	
GP-006G	7/17/2025 0:33	0	0.9	15.2	0	2.36	
GP-006H	7/17/2025 0:35	0	3.6	2.1	0	1.84	
GP-046D	7/17/2025 1:04	0	0.1	21	0	0.91	
GP-046I	7/17/2025 1:02	10.5	0.8	9.2	>>>>	2.22	
GP-046S	7/17/2025 1:01	0	0.1	18.9	0	0.03	
GP-048D	7/17/2025 1:17	4.6	16.1	0.2	92	1.52	
GP-048I	7/17/2025 1:15	0	0.1	21	0	-0.17	
GP-048S	7/17/2025 1:14	0	0.4	17.8	0	0.03	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - August

Bar.Start: 30.05
Bar Stop: 30.09
Amb. Temp: 59
Tech: CC

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	8/7/2025 9:44	0.0	0.1	20.5	0	-0.02	
ATC-01S	8/7/2025 9:42	0.0	1.9	19.8	0	0.07	
ATC-03D	8/7/2025 10:32	0.0	0.2	20.1	0	-1.88	
ATC-03S	8/7/2025 10:31	0.0	9.8	10.4	0	0.05	
ATC-06D	8/7/2025 11:09	0.0	0.3	20.2	0	-0.26	
ATC-06S	8/7/2025 11:08	0.0	1.4	19.6	0	0.06	
ATC-08D	8/7/2025 10:57	0.0	0.2	20.4	0	-0.04	
ATC-08S	8/7/2025 10:56	0.0	1.8	19.2	0	0.04	
GP-0025	8/7/2025 14:06	0.0	3.6	17.7	0	0.09	
GP-0026	8/7/2025 14:10	0.0	0.6	19.2	0	-0.78	
GP-0027	8/7/2025 14:14	0.0	9.3	13.6	0	0.06	
GP-0039	8/7/2025 8:25	0.0	1.4	18.9	0	-0.01	
GP-0040	8/7/2025 8:29	0.0	0.0	16.2	0	0.05	
GP-0052	8/7/2025 11:26	0.0	4.1	15.6	0	0.05	
GP-0053	8/7/2025 11:28	0.0	0.1	20.0	0	-0.17	
GP-0054	8/7/2025 11:31	0.0	0.0	20.3	0	0.06	
GP-005A	8/7/2025 10:18	0.0	0.0	20.8	0	-2.43	
GP-011A	8/7/2025 9:19	0.0	1.9	19.6	0	0.03	
GP-011B	8/7/2025 9:20	0.0	0.1	20.7	0	-0.59	
GP-011C	8/7/2025 9:22	0.0	0.0	20.7	0	-0.73	
GP-011D	8/7/2025 9:24	0.0	0.1	20.7	0	-0.1	Pump flow fail @ 50 Seconds
GP-012A	8/7/2025 9:58	0.0	1.0	20.2	0	0.03	
GP-012B	8/7/2025 9:59	0.0	0.1	20.7	0	0.06	
GP-012C	8/7/2025 10:01	0.0	0.1	20.5	0	0.04	
GP-012D	8/7/2025 10:02	0.0	0.1	20.7	0	-0.46	
GP-013A	8/7/2025 9:48	0.0	1.9	19.3	0	0.04	
GP-013B	8/7/2025 9:50	0.0	0.1	20.7	0	-0.09	
GP-013C	8/7/2025 9:51	0.0	0.0	20.8	0	0.07	
GP-013D	8/7/2025 9:53	0.0	0.0	20.8	0	-1.78	
GP-014A	8/7/2025 10:09	0.0	0.0	20.7	0	-1.04	
GP-014B	8/7/2025 10:10	0.0	0.0	20.8	0	-1.42	
GP-015A	8/7/2025 10:36	0.0	4.8	12.3	0	0.05	
GP-015C	8/7/2025 10:37	0.0	0.2	19.7	0	-0.18	
GP-015D	8/7/2025 10:39	0.0	0.1	20.5	0	-0.77	
GP-016A	8/7/2025 11:00	0.0	3.1	18.9	0	0.03	
GP-016B	8/7/2025 11:02	0.0	0.2	20.1	0	-3.29	
GP-016C	8/7/2025 11:03	0.0	0.1	20.5	0	-1.86	
GP-017A	8/7/2025 13:13	0.0	3.3	14.9	0	-10.46	
GP-017B	8/7/2025 13:14	0.0	0.7	16.8	0	0.08	
GP-017C	8/7/2025 13:15	0.0	0.0	19.6	0	-1.74	
GP-018A	8/7/2025 13:19	0.0	3.1	16.8	0	0.06	
GP-018B	8/7/2025 13:20	0.0	0.3	14.6	0	0.07	
GP-018C	8/7/2025 13:21	0.0	0.1	19.6	0	-1.84	
GP-019A	8/7/2025 13:26	0.0	1.4	17.7	0	0.03	
GP-019B	8/7/2025 13:27	0.0	0.5	15.8	0	0.01	
GP-019C	8/7/2025 13:29	0.0	0.0	19.9	0	0	
GP-020A	8/7/2025 13:32	0.0	1.3	19.2	0	0.1	
GP-020B	8/7/2025 13:33	0.0	0.3	18.5	0	-0.02	
GP-020C	8/7/2025 13:35	0.0	0.2	8.4	0	0.05	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - August

Bar.Start: 30.05
Bar Stop: 30.09
Amb. Temp: 59
Tech: CC

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-021A	8/7/2025 13:39	0.0	0.7	18.8	0	0.05	
GP-021B	8/7/2025 13:40	0.0	0.2	9.9	0	0.03	
GP-021C	8/7/2025 13:41	0.0	1.2	12.1	0	-0.37	Pump flow fail @ 10 Seconds
GP-022A	8/7/2025 13:44	0.0	2.7	17.0	0	0.06	
GP-022C	8/7/2025 13:46	0.0	0.3	6.8	0	-1.49	
GP-023A	8/7/2025 13:54	0.0	0.1	19.8	0	0.07	
GP-023B	8/7/2025 13:55	0.0	0.0	20.1	0	0.03	
GP-023C	8/7/2025 13:57	0.0	0.0	20.1	0	0.05	
GP-024A	8/7/2025 14:01	0.0	5.7	14.8	0	0.1	
GP-024B	8/7/2025 14:03	0.0	0.1	20.0	0	-0.35	
GP-029A	8/7/2025 14:19	0.0	2.2	18.0	0	0.05	
GP-029B	8/7/2025 14:21	0.0	0.3	19.9	0	0.01	
GP-030A	8/7/2025 7:31	0.0	0.4	19.5	0	0.04	
GP-030B	8/7/2025 7:33	0.0	1.3	19.1	0	-0.79	
GP-031A	8/7/2025 7:36	0.0	8.0	10.6	0	-2.99	
GP-031B	8/7/2025 7:38	0.0	0.3	17.9	0	-0.59	
GP-031C	8/7/2025 7:39	0.0	0.1	20.2	0	-0.04	
GP-032A	8/7/2025 7:42	0.0	0.1	20.4	0	-0.01	
GP-032B	8/7/2025 7:44	0.0	0.1	20.3	0	0.1	
GP-032C	8/7/2025 7:45	0.0	0.3	20.2	0	-0.03	Pump flow fail @ 10 Seconds
GP-033A	8/7/2025 7:49	0.0	5.5	15.8	0	0.07	
GP-033B	8/7/2025 7:50	0.0	0.6	19.5	0	-0.01	
GP-033C	8/7/2025 7:52	0.0	0.1	20.6	0	-1.01	
GP-034A	8/7/2025 7:55	0.0	11.2	6.3	0	-5.11	
GP-034B	8/7/2025 7:56	0.0	0.1	20.3	0	-0.17	
GP-034C	8/7/2025 7:58	0.0	0.1	20.6	0	-1.23	
GP-035A	8/7/2025 8:01	0.0	6.8	13.9	0	0.05	
GP-035B	8/7/2025 8:03	0.0	0.1	20.6	0	0.05	
GP-035C	8/7/2025 8:04	0.0	0.1	20.7	0	0.02	
GP-036A	8/7/2025 8:08	0.0	0.7	20.4	0	-1.68	
GP-036B	8/7/2025 8:10	0.0	3.6	18.0	0	0.13	
GP-036C	8/7/2025 8:11	0.0	0.3	17.2	0	-1.46	
GP-037A	8/7/2025 8:15	0.0	2.0	17.1	0	-7.88	
GP-037B	8/7/2025 8:16	0.0	0.4	17.4	0	0.39	Pump flow fail @ 10 Seconds
GP-037C	8/7/2025 8:17	0.0	0.5	4.9	0	-1.45	
GP-041A	8/7/2025 8:33	0.0	3.3	17.0	0	0.05	
GP-041B	8/7/2025 8:35	0.0	0.9	8.9	0	0.06	
GP-041C	8/7/2025 8:36	0.0	0.1	20.6	0	-0.01	
GP-042A	8/7/2025 8:43	0.0	4.3	16.1	0	-8.24	
GP-042B	8/7/2025 8:45	0.0	0.3	20.7	0	-0.8	
GP-043A	8/7/2025 8:48	0.0	0.4	20.7	0	-0.13	Pump flow fail @ 5 Seconds
GP-043B	8/7/2025 8:49	0.0	0.2	20.8	0	0.05	Pump flow fail @ 10 Seconds
GP-043C	8/7/2025 8:51	0.0	0.1	21.0	0	-0.01	
GP-044A	8/7/2025 8:58	3.5	11.6	4.8	70	0.05	
GP-044B	8/7/2025 8:59	0.0	0.3	20.4	0	-0.84	
GP-044C	8/7/2025 9:01	0.0	0.1	21.0	0	0.05	
GP-045D	8/7/2025 9:16	0.0	0.0	20.7	0	-0.78	
GP-045I	8/7/2025 9:15	0.0	0.0	20.7	0	0	
GP-045S	8/7/2025 9:13	0.0	0.1	20.7	0	0.04	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - August

Bar.Start:	**30.05**
Bar Stop:	**30.09**
Amb. Temp:	**59**
Tech:	**CC**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-047D	8/7/2025 11:43	0.0	1.9	17.4	0	0.06	
GP-047I	8/7/2025 11:41	0.0	0.1	20.3	0	-1.95	
GP-047S	8/7/2025 11:40	0.0	0.0	20.3	0	-1.83	
GP-05BA	8/7/2025 10:20	0.0	5.8	16.1	0	0.04	
GP-05BB	8/7/2025 10:22	0.0	0.1	20.5	0	-2.56	
GP-05BC	8/7/2025 10:23	0.0	0.1	20.7	0	-2.46	
GP-05BD	8/7/2025 10:25	0.0	1.1	20.3	0	-2.26	
GP-063A	8/7/2025 10:50	0.0	7.3	16.1	0	0.03	
GP-063B	8/7/2025 10:46	0.0	0.1	20.5	0	0.04	
GP-063C	8/7/2025 10:48	0.0	0.1	20.6	0	-0.86	
GP-064A	8/7/2025 11:13	0.0	0.2	20.3	0	0.11	Pump flow fail @ 40 Seconds
GP-064B	8/7/2025 11:15	0.0	2.7	17.0	0	-0.01	
GP-064C	8/7/2025 11:17	0.0	0.1	20.3	0	-1.84	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - August

Bar.Start:	**29.79**
Bar Stop:	**29.80**
Amb. Temp:	**66**
Tech:	**RH**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0061	8/15/2025 22:42	0	2.3	18.9	0	0.67	
GP-0062	8/15/2025 22:44	0	1.6	19.5	0	0.02	
GP-0009	8/15/2025 22:49	0	0.3	19.8	0	0.83	
GP-0059	8/15/2025 22:55	30.5	11	0.1	>>>>	0.22	
GP-0060	8/15/2025 22:58	0	0.6	20.1	0	0.04	
GP-0057	8/15/2025 23:01	40.6	20.2	4.3	>>>>	-8.8	
GP-0058	8/15/2025 23:03	0	12.9	10.3	0	0.03	
GP-0055	8/15/2025 23:06	0.3	0.5	19.9	6	0.15	
GP-0056	8/15/2025 23:07	0	2.9	17.7	0	0	
GP-0008	8/15/2025 23:10	0	1.2	16.2	0	0.75	
GP-0007	8/15/2025 23:15	0	2.3	13.3	0	0.82	
GP-001A	8/15/2025 23:19	0	6.3	16.3	0	0.11	
GP-001B	8/15/2025 23:21	0	1.2	20.1	0	0.14	
GP-006A	8/15/2025 23:25	0	1.7	9.8	0	0.7	
GP-006B	8/15/2025 23:26	0	2.8	6.7	0	1.31	
GP-006C	8/15/2025 23:27	0	0.7	17.8	0	1.15	
GP-006D	8/15/2025 23:29	0	1.6	12.6	0	0.98	
GP-006E	8/15/2025 23:30	0	0.2	21	0	1.25	
GP-006F	8/15/2025 23:31	0	1.4	11.4	0	1.14	
GP-006G	8/15/2025 23:32	0	1	15	0	1.46	
GP-006H	8/15/2025 23:34	0	2.4	8.2	0	0.94	
GP-002A	8/15/2025 23:38	0	7	13.8	0	0.07	
GP-002B	8/15/2025 23:39	0	0.2	21.1	0	0.38	
GP-004A	8/15/2025 23:45	0	5.5	16.4	0	0.03	
GP-004B	8/15/2025 23:48	0	0.2	21.2	0	0.04	
GB-4one	8/15/2025 23:53	0	6.4	12.8	0	0.57	
GB-4two	8/15/2025 23:54	0	2.1	18.4	0	0.84	
GP-0003	8/15/2025 23:59	0	16.6	6.5	0	-0.05	
GP-046S	8/16/2025 0:02	0	0.2	19.1	0	-0.04	
GP-046I	8/16/2025 0:04	2.4	0.3	17.4	48	1.56	
GP-046D	8/16/2025 0:05	0	0.1	20.5	0	0.62	
GP-048S	8/16/2025 0:11	0	0.4	17.7	0	-0.11	
GP-048I	8/16/2025 0:12	0	0.2	20.6	0	-0.12	
GP-048D	8/16/2025 0:14	8.6	10.2	0.3	>>>>	0.51	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - August

Bar.Start: 29.97
Bar Stop: 29.98
Amb. Temp: 62
Tech: CC

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	8/6/2025 8:51	0.0	0.0	21.0	0.0	-0.61	
Chgp013A	8/6/2025 8:32	0.0	1.9	19.3	0.0	0.1	
Chgp013B	8/6/2025 8:34	0.0	0.1	20.5	0.0	-0.01	
Chgp013C	8/6/2025 8:36	0.0	0.1	20.5	0.0	0.02	
Chgp013D	8/6/2025 8:38	0.0	0.0	20.8	0.0	-0.3	
Chgp014A	8/6/2025 8:25	0.0	0.0	20.6	0.0	-0.18	
Chgp014B	8/6/2025 8:27	0.0	0.0	20.7	0.0	-0.24	
Chgp015A	8/6/2025 9:14	0.0	5.1	10.5	0.0	0.07	
Chgp015C	8/6/2025 9:20	0.0	0.5	17.7	0.0	-0.04	
Chgp015D	8/6/2025 9:22	0.0	0.1	20.5	0.0	-0.46	
Chgp016A	8/6/2025 9:29	0.0	3.1	19.1	0.0	0.13	
Chgp016B	8/6/2025 9:31	0.0	0.1	20.7	0.0	-1.43	
Chgp016C	8/6/2025 9:33	0.0	0.1	20.8	0.0	-0.23	
Chgp05BA	8/6/2025 8:55	0.0	5.9	15.7	0.0	0.04	
Chgp05BB	8/6/2025 8:57	0.0	0.2	20.5	0.0	-0.66	
Chgp05BC	8/6/2025 8:59	0.0	0.1	20.6	0.0	-0.68	
Chgp05BD	8/6/2025 9:01	0.0	1.6	19.7	0.0	-0.53	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - August

Bar.Start: 30.09
Bar Stop: 30.12
Amb. Temp: 65
Tech: CC

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	8/20/2025 8:15	0.0	0.1	20.7	0	-3.97	
Chgp013A	8/20/2025 7:53	0.0	1.9	19.1	0	0.06	
Chgp013B	8/20/2025 7:55	0.0	0.1	20.8	0	-0.06	
Chgp013C	8/20/2025 7:57	0.0	0.1	20.9	0	-0.06	
Chgp013D	8/20/2025 7:59	0.0	0.1	21.0	0	-2.27	
Chgp014A	8/20/2025 8:04	0.0	0.1	21.0	0	-1.3	
Chgp014B	8/20/2025 8:08	0.0	0.1	20.7	0	-1.35	
Chgp015A	8/20/2025 8:33	0.0	5.3	10.4	0	0.01	
Chgp015C	8/20/2025 8:36	0.0	0.6	16.8	0	-0.23	
Chgp015D	8/20/2025 8:38	0.0	0.1	20.8	0	-0.01	
Chgp016A	8/20/2025 8:45	0.0	2.6	18.9	0	-0.01	
Chgp016B	8/20/2025 8:47	0.0	0.2	20.7	0	-3.89	
Chgp016C	8/20/2025 8:49	0.0	0.1	20.7	0	-2.54	
Chgp05BA	8/20/2025 8:18	0.0	5.6	15.7	0	0	
Chgp05BB	8/20/2025 8:21	0.0	0.1	20.8	0	-3.47	
Chgp05BC	8/20/2025 8:22	0.0	0.1	20.8	0	-3.46	
Chgp05BD	8/20/2025 8:25	0.0	1.0	20.0	0	-2.92	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - August

Bar.Start: 29.95
Bar Stop: 29.97
Amb. Temp: 64
Tech: CC

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	8/29/2025 7:56	0.0	0.1	20.7	0	-1.22	
Chgp013A	8/29/2025 7:36	0.0	1.9	19.2	0	0.04	
Chgp013B	8/29/2025 7:38	0.0	0.1	20.7	0	-0.07	
Chgp013C	8/29/2025 7:40	0.0	0.1	20.9	0	-0.03	
Chgp013D	8/29/2025 7:42	0.0	0.1	20.9	0	-0.86	
Chgp014A	8/29/2025 7:47	0.0	0.1	20.9	0	-0.5	
Chgp014B	8/29/2025 7:49	0.0	0.1	21.0	0	-0.65	
Chgp015A	8/29/2025 8:09	0.0	5.3	11.5	0	0.05	
Chgp015C	8/29/2025 8:11	0.0	0.6	17.3	0	-0.12	
Chgp015D	8/29/2025 8:13	0.0	0.1	20.8	0	-0.66	
Chgp016A	8/29/2025 8:19	0.0	2.6	18.9	0	-0.01	
Chgp016B	8/29/2025 8:21	0.0	0.2	20.7	0	-1.68	
Chgp016C	8/29/2025 8:23	0.0	0.1	20.8	0	-1.13	
Chgp05BA	8/29/2025 7:58	0.0	5.2	16.0	0	-0.02	
Chgp05BB	8/29/2025 8:00	0.0	0.2	20.7	0	-1.47	
Chgp05BC	8/29/2025 8:02	0.0	0.1	20.8	0	-1.51	
Chgp05BD	8/29/2025 8:04	0.0	1.3	19.9	0	-1.18	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - September

Bar.Start: 29.85
Bar Stop: 29.85
Amb. Temp: 60*f
Tech: DNS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0062	9/9/2025 21:19	0.0	1.7	19.3	0	0.02	,,,,
GP-0061	9/9/2025 21:21	0.0	2.1	19.6	0	0.21	,,,,
GP-0009	9/9/2025 21:31	0.0	0.1	20.9	0	-0.23	,,,,
GP-0060	9/9/2025 21:37	0.0	0.8	20.2	0	0.05	,,,,
GP-0059	9/9/2025 21:39	0.0	2.2	16.0	0	0.12	,,,,
GP-0058	9/9/2025 21:44	0.0	10.3	12.9	0	0.04	,,,,
GP-0057	9/9/2025 21:45	53.0	25.4	0.2	>>>>	-9.34	,,,,
GP-0056	9/9/2025 21:50	0.0	2.3	19.3	0	0.04	,,,,
GP-0055	9/9/2025 21:52	0.0	0.2	21.0	0	0.08	,,,,
GP-0008	9/9/2025 21:57	0.0	0.2	20.9	0	0.02	,,,,
GP-0007	9/9/2025 22:01	0.0	0.1	21.0	0	-0.03	,,,,
GP-001A	9/9/2025 22:07	0.0	7.2	15.7	0	0.1	,,,,
GP-001B	9/9/2025 22:09	0.0	0.3	21.0	0	0.07	,,,,
GP-006A	9/9/2025 22:14	0.0	0.8	20.5	0	0.09	,,,,
GP-006B	9/9/2025 22:16	0.0	0.1	21.0	0	0.46	,,,,
GP-006C	9/9/2025 22:17	0.0	4.0	18.0	0	0.49	,,,,
GP-006D	9/9/2025 22:19	0.0	0.1	21.0	0	-0.01	,,,,
GP-006E	9/9/2025 22:21	0.0	0.1	21.0	0	0.51	,,,,
GP-006F	9/9/2025 22:23	0.0	0.1	21.0	0	0.44	,,,,
GP-006G	9/9/2025 22:24	0.0	1.0	15.6	0	0.42	,,,,
GP-006H	9/9/2025 22:26	0.0	0.1	21.0	0	-0.38	,,,,
GP-002A	9/9/2025 22:50	0.0	7.9	13.0	0	0.06	,,,,
GP-002B	9/9/2025 22:52	0.0	0.2	21.0	0	0.07	,,,,
GP-004A	9/9/2025 23:00	0.0	6.1	15.6	0	0.01	,,,,
GP-004B	9/9/2025 23:02	0.0	0.2	21.0	0	0.02	,,,,
GB-4one	9/9/2025 23:05	0.0	7.7	11.3	0	-0.36	,,,,
GB-4two	9/9/2025 23:07	0.0	1.4	19.8	0	-0.01	,,,,
GP-0003	9/9/2025 23:10	0.0	16.3	6.5	0	-0.14	,,,,
GP-046S	9/9/2025 23:15	0.0	0.1	20.9	0	-0.42	,,,,
GP-046I	9/9/2025 23:16	0.0	0.1	21.0	0	-0.04	,,,,
GP-046D	9/9/2025 23:18	0.0	0.1	21.0	0	0.07	,,,,
GP-048S	9/9/2025 23:28	0.0	0.2	20.0	0	-0.05	,,,,
GP-048I	9/9/2025 23:30	0.0	0.1	21.0	0	0	,,,,
GP-048D	9/9/2025 23:32	0.0	0.1	21.0	0	0.01	,,,,

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - September

Bar.Start: 29.77
Bar Stop: 29.86
Amb. Temp: 63.00
Tech: JF

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	9/14/2025 11:24	0	0.3	20	0	-0.08	
ATC-01S	9/14/2025 11:23	0	1.1	20.6	0	0.11	
ATC-03D	9/15/2025 7:27	0	0.4	19.5	0	-2.82	
ATC-03S	9/15/2025 7:26	0	10.6	11.9	0	0.08	
ATC-06D	9/14/2025 12:23	0	0.3	20.6	0	-0.17	
ATC-06S	9/14/2025 12:22	0	0.8	20.7	0	0.1	
ATC-08D	9/14/2025 12:16	0	0.2	21	0	-0.57	
ATC-08S	9/14/2025 12:15	0	0.6	20.9	0	0.05	
GP-0025	9/14/2025 15:20	0	2.6	18.7	0	0.04	
GP-0026	9/14/2025 15:22	0	0.5	19.2	0	-1.03	
GP-0027	9/14/2025 15:25	0	8.5	14.7	0	0.08	
GP-0039	9/14/2025 10:30	0	0.4	15.7	0	0.06	
GP-0040	9/14/2025 10:33	0	0.1	18.7	0	0.05	
GP-0052	9/14/2025 12:41	0	2.1	19.3	0	0.14	
GP-0053	9/14/2025 12:42	0	0.2	19.8	0	-0.13	
GP-0054	9/14/2025 12:43	0	0.1	20.5	0	0.29	
GP-005A	9/14/2025 11:54	0	0.4	14.6	0	-0.13	
GP-011A	9/14/2025 11:00	0	1	20.7	0	0.05	
GP-011B	9/14/2025 11:01	0	0.3	17.3	0	-0.41	
GP-011C	9/14/2025 11:02	0	0.1	18	0	-0.28	
GP-011D	9/14/2025 11:03	0	0.1	20.4	0	0.03	
GP-012A	9/14/2025 11:37	0	1.4	20.2	0	0.02	
GP-012B	9/14/2025 11:39	0	0	21	0	0.02	
GP-012C	9/14/2025 11:40	0	0.1	20.8	0	0.03	
GP-012D	9/14/2025 11:42	0	0.1	21	0	-0.05	
GP-013A	9/14/2025 11:29	0	1.5	20	0	0.06	
GP-013B	9/14/2025 11:30	0	0.1	20.8	0	-0.1	
GP-013C	9/14/2025 11:32	0	0.1	21	0	0.03	
GP-013D	9/14/2025 11:33	0	0	21	0	-0.1	
GP-014A	9/14/2025 11:49	0	0.1	20.8	0	-0.01	
GP-014B	9/14/2025 11:50	0	0	21	0	-0.31	
GP-015A	9/15/2025 7:44	0	5.2	14.6	0	-0.02	
GP-015C	9/15/2025 7:45	0	0.1	19.7	0	-0.2	
GP-015D	9/15/2025 7:47	0	0.1	20.1	0	-1.84	
GP-016A	9/14/2025 12:18	0	1.7	20.2	0	0.01	
GP-016B	9/14/2025 12:19	0	0.1	20.6	0	-0.22	
GP-016C	9/14/2025 12:20	0	0.1	21	0	-0.23	
GP-017A	9/14/2025 14:30	0.1	3.1	18	2	0.05	
GP-017B	9/14/2025 14:32	0	0.7	17.2	0	0.03	
GP-017C	9/14/2025 14:35	0	0.1	19.6	0	-0.62	
GP-018A	9/14/2025 14:38	0	3	18.2	0	0.11	
GP-018B	9/14/2025 14:39	0	0.3	16.6	0	0.08	
GP-018C	9/14/2025 14:42	0	0.1	16.9	0	-0.47	
GP-019A	9/14/2025 14:48	0	1.4	18.1	0	0.12	
GP-019B	9/14/2025 14:50	0	0.6	16	0	0.23	
GP-019C	9/14/2025 14:51	0	0	19.8	0	-0.02	
GP-020A	9/14/2025 14:54	0	1.4	19.5	0	0.03	
GP-020B	9/14/2025 14:55	0	0.2	19.2	0	0.02	
GP-020C	9/14/2025 14:56	0	0.4	18.7	0	0.24	
GP-021A	9/14/2025 14:58	0	0.6	18.4	0	0.05	
GP-021B	9/14/2025 14:59	0	0.1	10.7	0	0.23	
GP-021C	9/14/2025 15:00	0	1.1	13.4	0	-0.21	
GP-022A	9/14/2025 15:04	0	1.7	18.6	0	0	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - September

Bar.Start: 29.77
Bar Stop: 29.86
Amb. Temp: 63.00
Tech: JF

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-022C	9/14/2025 15:05	0	0.3	9.2	0	-0.39	
GP-023A	9/14/2025 15:11	0	0.1	19.5	0	0.02	
GP-023B	9/14/2025 15:12	0	0	20.2	0	0.04	
GP-023C	9/14/2025 15:13	0	0	20.3	0	0.07	
GP-024A	9/14/2025 15:16	0	4.8	16.4	0	0.07	
GP-024B	9/14/2025 15:17	0	0.1	19.2	0	-0.32	
GP-029A	9/14/2025 15:29	0	2.3	18.3	0	0.04	
GP-029B	9/14/2025 15:30	0	0.3	19.8	0	0.06	
GP-030A	9/14/2025 8:54	0	0.7	19.1	0	0.08	
GP-030B	9/14/2025 8:56	0	1.1	19.3	0	-0.48	
GP-031A	9/14/2025 9:19	0	7.1	13.6	0	-0.25	
GP-031B	9/14/2025 9:21	0	0.3	16	0	-0.09	
GP-031C	9/14/2025 9:38	0	1.2	18.5	0	0	
GP-032A	9/14/2025 9:52	0	0	20.2	0	0.11	
GP-032B	9/14/2025 9:55	0	0.1	20.2	0	0.27	
GP-032C	9/14/2025 9:56	0	0.4	20.1	0	0.03	
GP-033A	9/14/2025 9:59	0	4.4	16.7	0	0.05	
GP-033B	9/14/2025 10:00	0	0.4	19.9	0	0.18	
GP-033C	9/14/2025 10:04	0	0	20.5	0	-0.79	
GP-034A	9/14/2025 10:07	0.3	8.2	10.7	6	0.03	
GP-034B	9/14/2025 10:10	0	0.1	18.1	0	-0.01	
GP-034C	9/14/2025 10:11	0	0.1	8.5	0	0.5	
GP-035A	9/14/2025 10:13	0	3.5	17.3	0	0.04	
GP-035B	9/14/2025 10:15	0	0.1	20.4	0	0.04	
GP-035C	9/14/2025 10:17	0	0.1	20.5	0	0.07	
GP-036A	9/14/2025 10:19	0	0.5	20.6	0	-0.73	
GP-036B	9/14/2025 10:20	0	1	20	0	-0.07	
GP-036C	9/14/2025 10:22	0	0.2	12	0	0.52	
GP-037A	9/14/2025 10:24	0	1.9	17	0	0.04	
GP-037B	9/14/2025 10:25	0	0.8	18.1	0	0.76	
GP-037C	9/14/2025 10:26	0	0.5	5.1	0	0.8	
GP-041A	9/14/2025 10:35	0	3.5	17.9	0	0.09	
GP-041B	9/14/2025 10:36	0	0.9	10.6	0	0.02	
GP-041C	9/14/2025 10:37	0	0.1	18.4	0	0.07	
GP-042A	9/14/2025 10:40	0	4.2	16.3	0	0.03	
GP-042B	9/14/2025 10:41	0	0.9	17.4	0	-0.12	
GP-043A	9/14/2025 10:43	0	0.9	16.7	0	0.15	
GP-043B	9/14/2025 10:43	0	0.3	18.9	0	0.37	
GP-043C	9/14/2025 10:44	0	0.1	19.9	0	0.05	
GP-044A	9/14/2025 10:47	0	5.2	15.2	0	0.07	
GP-044B	9/14/2025 10:48	0	0.2	20.1	0	-0.34	
GP-044C	9/14/2025 10:49	0	0	21	0	0.01	
GP-045D	9/14/2025 10:58	0	0	21	0	-0.32	
GP-045I	9/14/2025 10:57	0	0	21	0	0.04	
GP-045S	9/14/2025 10:56	0	0.1	21	0	0	
GP-047D	9/14/2025 12:36	0.1	2.3	15.2	2	0.06	
GP-047I	9/14/2025 12:35	27	11.7	8.4	0	0.08	
GP-047S	9/14/2025 12:34	35.1	13.8	0.5	0	0.02	
GP-05BA	9/14/2025 11:55	0	4.2	16.8	0	0.07	
GP-05BB	9/14/2025 11:56	0	4.9	16.3	0	-0.12	
GP-05BC	9/14/2025 11:57	0	1	18.3	0	0.1	
GP-05BD	9/14/2025 11:58	0	1.1	15.6	0	-0.09	
GP-063A	9/14/2025 12:11	0	5.2	17.8	0	0.1	
GP-063B	9/14/2025 12:12	0	0.2	19.6	0	0.04	
GP-063C	9/14/2025 12:13	0	0.1	21	0	-0.23	
GP-064A	9/14/2025 12:06	0	0.1	20.4	0	0.14	
GP-064B	9/14/2025 12:07	0	3.1	17.4	0	-0.06	
GP-064C	9/14/2025 12:08	0	0.3	19.6	0	-0.21	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - September

Bar.Start:	**29.94**
Bar Stop:	**29.93**
Amb. Temp:	**67**
Tech:	**JF**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	9/8/2025 10:38	0.0	0.1	19.6	0.0	-1.6	
Chgp013A	9/8/2025 10:16	0.0	2.0	19.0	0.0	-0.1	
Chgp013B	9/8/2025 10:20	0.0	0.1	20.0	0.0	-0.1	
Chgp013C	9/8/2025 10:22	0.0	0.1	20.6	0.0	-0.03	
Chgp013D	9/8/2025 10:24	0.0	0.0	20.6	0.0	-0.93	
Chgp014A	9/8/2025 10:31	0.0	0.0	20.8	0.0	-0.57	
Chgp014B	9/8/2025 10:33	0.0	0.0	21.0	0.0	-0.91	
Chgp015A	9/8/2025 10:49	0.0	4.3	14.6	0.0	-0.04	
Chgp015C	9/8/2025 10:51	0.0	0.2	19.7	0.0	0.02	
Chgp015D	9/8/2025 10:52	0.0	0.1	21.0	0.0	-1.56	
Chgp016A	9/8/2025 10:59	0.0	1.5	19.2	0.0	-0.01	
Chgp016B	9/8/2025 11:01	0.0	0.1	21.0	0.0	-1.47	
Chgp016C	9/8/2025 11:02	0.0	0.1	20.6	0.0	-0.66	
Chgp05BA	9/8/2025 10:39	0.0	4.1	16.4	0.0	-0.03	
Chgp05BB	9/8/2025 10:42	0.0	0.1	21.0	0.0	-1.59	
Chgp05BC	9/8/2025 10:44	0.0	0.0	21.0	0.0	-1.59	
Chgp05BD	9/8/2025 10:45	0.0	0.8	20.9	0.0	-1.31	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - September

Bar.Start: 29.89
Bar Stop: 29.91
Amb. Temp: 58
Tech: JF

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	9/21/2025 12:13	0.0	0.1	20.8	0.0	-0.83	
Chgp013A	9/21/2025 11:56	0.0	1.8	19.1	0.0	-0.04	
Chgp013B	9/21/2025 11:58	0.0	0.1	20.3	0.0	0.2	
Chgp013C	9/21/2025 11:59	0.0	0.1	20.6	0.0	0.03	
Chgp013D	9/21/2025 12:00	0.0	0.1	20.6	0.0	-0.66	
Chgp014A	9/21/2025 12:05	0.0	0.1	20.5	0.0	-0.2	
Chgp014B	9/21/2025 12:06	0.0	0.1	20.8	0.0	-0.69	
Chgp015A	9/22/2025 7:11	0.0	4.4	15.6	0.0	-0.08	
Chgp015C	9/22/2025 7:12	0.0	0.2	20.5	0.0	-0.27	
Chgp015D	9/22/2025 7:13	0.0	0.1	20.8	0.0	-1.71	
Chgp016A	9/21/2025 12:25	0.0	2.0	19.6	0.0	0.11	
Chgp016B	9/21/2025 12:26	0.0	0.1	20.8	0.0	-1.31	
Chgp016C	9/21/2025 12:27	0.0	0.1	20.8	0.0	-0.76	
Chgp05BA	9/21/2025 12:15	0.0	6.0	15.3	0.0	0.08	
Chgp05BB	9/21/2025 12:17	0.0	0.8	19.6	0.0	-0.91	
Chgp05BC	9/21/2025 12:18	0.0	0.1	20.9	0.0	-0.84	
Chgp05BD	9/21/2025 12:19	0.0	0.1	20.9	0.0	-0.86	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - September

Bar.Start: 29.71
Bar Stop: 29.72
Amb. Temp: 52
Tech: JF

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	9/30/2025 8:36	0.0	0.7	10.5	0.0	1.74	
Chgp013A	9/30/2025 8:15	0.0	0.8	20.1	0.0	N/A	
Chgp013B	9/30/2025 8:18	0.0	0.5	20.7	0.0	N/A	
Chgp013C	9/30/2025 8:21	0.0	0.5	20.4	0.0	0.27	
Chgp013D	9/30/2025 8:23	0.0	0.5	19.0	0.0	0.88	
Chgp014A	9/30/2025 8:28	0.0	0.4	18.8	0.0	0.8	
Chgp014B	9/30/2025 8:29	0.0	0.4	19.0	0.0	0.3	
Chgp015A	9/30/2025 8:49	0.0	4.5	14.8	0.0	0.02	
Chgp015C	9/30/2025 8:51	0.0	1.9	12.2	0.0	0.1	
Chgp015D	9/30/2025 8:52	0.0	0.9	20.8	0.0	-1.05	
Chgp016A	9/30/2025 8:58	0.0	2.0	19.8	0.0	0.03	
Chgp016B	9/30/2025 8:59	0.0	1.0	18.5	0.0	1.71	
Chgp016C	9/30/2025 9:01	0.0	1.1	14.2	0.0	1.21	
Chgp05BA	9/30/2025 8:39	0.0	5.1	13.0	0.0	0.04	
Chgp05BB	9/30/2025 8:40	0.0	2.1	16.3	0.0	1.66	
Chgp05BC	9/30/2025 8:43	0.0	1.4	11.5	0.0	1.78	
Chgp05BD	9/30/2025 8:45	0.0	1.3	13.3	0.0	1.09	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - October

Bar.Start: 29.77
Bar Stop: 29.72
Amb. Temp: 65°F
Tech: BL

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	10/8/2025 10:42	0.0	0.1	20.5	0	0	
ATC-01S	10/8/2025 10:40	0.0	1.2	19.7	0	0.26	
ATC-03D	10/8/2025 11:36	0.0	1.0	18.7	0	1.3	
ATC-03S	10/8/2025 11:35	0.0	10.3	10.1	0	0.06	
ATC-06D	10/8/2025 12:00	0.0	0.5	18.6	0	0.04	
ATC-06S	10/8/2025 11:58	0.0	0.9	19.5	0	-0.01	
ATC-08D	10/8/2025 12:12	0.0	0.2	18.7	0	0	
ATC-08S	10/8/2025 12:10	0.0	1.1	19.5	0	-0.01	
GP-0025	10/8/2025 13:52	0.0	2.5	16.9	0	0.09	
GP-0026	10/8/2025 14:04	0.0	0.5	18.5	0	0.64	
GP-0027	10/8/2025 14:07	0.0	8.1	13.3	0	0.03	
GP-0039	10/8/2025 9:01	0.0	0.8	18.4	0	0.31	
GP-0040	10/8/2025 9:08	0.0	0.1	19.5	0	0.12	
GP-0052	10/8/2025 9:58	0.0	0.2	20.2	0	0.06	Pump Fail @ 15 sec
GP-0053	10/8/2025 9:59	0.0	0.2	19.7	0	0.07	
GP-0054	10/8/2025 10:01	0.0	0.0	20.3	0	0.04	
GP-005A	10/8/2025 11:21	0.0	0.3	13.2	0	1.67	
GP-011A	10/8/2025 10:27	0.0	1.3	19.8	0	0.07	
GP-011B	10/8/2025 10:28	0.0	0.8	12.8	0	0.42	
GP-011C	10/8/2025 10:30	0.0	0.1	17.1	0	0.34	
GP-011D	10/8/2025 10:31	0.0	0.1	20.2	0	0.05	
GP-012A	10/8/2025 10:58	0.0	1.2	19.9	0	0.01	
GP-012B	10/8/2025 10:59	0.0	0.0	20.7	0	0.12	
GP-012C	10/8/2025 11:01	0.0	0.1	20.0	0	0.02	
GP-012D	10/8/2025 11:02	0.0	0.1	20.0	0	0.16	
GP-013A	10/8/2025 10:48	0.0	1.7	19.3	0	0.03	
GP-013B	10/8/2025 10:49	0.0	0.3	18.7	0	0.13	
GP-013C	10/8/2025 10:51	0.0	0.1	20.6	0	0	
GP-013D	10/8/2025 10:52	0.0	0.1	20.0	0	1.49	
GP-014A	10/8/2025 11:13	0.0	0.1	20.2	0	0.79	
GP-014B	10/8/2025 11:14	0.0	0.1	20.0	0	0.49	
GP-015A	10/8/2025 11:41	0.0	5.2	14.9	0	0.03	
GP-015C	10/8/2025 11:42	0.0	1.5	11.5	0	0.09	
GP-015D	10/8/2025 11:44	0.0	0.1	20.1	0	-1.84	
GP-016A	10/8/2025 12:03	0.0	1.9	19.1	0	-0.02	
GP-016B	10/8/2025 12:05	0.0	0.2	19.7	0	0.7	
GP-016C	10/8/2025 12:06	0.0	0.5	16.2	0	1.33	
GP-017A	10/8/2025 12:50	0.0	2.7	17.7	0	0	
GP-017B	10/8/2025 12:52	0.0	0.7	16.7	0	-0.04	
GP-017C	10/8/2025 12:54	0.0	0.1	19.6	0	1.31	
GP-018A	10/8/2025 12:59	0.0	2.8	17.5	0	-0.05	
GP-018B	10/8/2025 13:01	0.0	0.2	17.4	0	0	
GP-018C	10/8/2025 13:02	0.0	0.1	17.1	0	1.82	
GP-019A	10/8/2025 13:07	0.0	1.4	18.4	0	0	
GP-019B	10/8/2025 13:09	0.0	0.6	15.7	0	-0.03	
GP-019C	10/8/2025 13:10	0.0	0.0	19.9	0	0.09	
GP-020A	10/8/2025 13:18	0.0	1.2	19.4	0	-0.07	
GP-020B	10/8/2025 13:19	0.0	0.2	19.9	0	0.07	
GP-020C	10/8/2025 13:21	0.0	0.2	9.7	0	0.13	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - October

Bar.Start: 29.77
Bar Stop: 29.72
Amb. Temp: 65°F
Tech: BL

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-021A	10/8/2025 13:25	0.0	0.8	18.8	0	-0.03	
GP-021B	10/8/2025 13:26	0.0	0.1	9.4	0	0.35	
GP-021C	10/8/2025 13:27	0.0	0.1	10.1	0	1.46	Pump Fail @ 10 sec
GP-022A	10/8/2025 13:32	0.0	2.9	17.7	0	-0.02	
GP-022C	10/8/2025 13:33	0.0	0.3	6.9	0	0.36	
GP-023A	10/8/2025 13:40	0.0	0.1	20.0	0	-0.11	
GP-023B	10/8/2025 13:41	0.0	0.0	20.3	0	0.02	
GP-023C	10/8/2025 13:42	0.0	0.0	20.3	0	-0.01	
GP-024A	10/8/2025 13:47	0.0	4.9	15.7	0	0.09	
GP-024B	10/8/2025 13:49	0.0	1.1	17.5	0	0.53	
GP-029A	10/8/2025 14:21	0.0	2.3	18.3	0	0.01	
GP-029B	10/8/2025 14:23	0.0	0.3	20.0	0	0.15	
GP-030A	10/8/2025 7:57	0.0	0.8	20.0	0	0.02	
GP-030B	10/8/2025 7:59	0.0	0.6	20.3	0	-0.27	
GP-031A	10/8/2025 8:03	0.0	6.8	14.6	0	-0.02	
GP-031B	10/8/2025 8:04	0.0	0.3	16.4	0	-0.1	
GP-031C	10/8/2025 8:05	0.0	1.2	18.9	0	0.08	
GP-032A	10/8/2025 8:09	0.0	0.1	20.9	0	0.01	
GP-032B	10/8/2025 8:10	0.0	0.1	20.9	0	0.06	
GP-032C	10/8/2025 8:12	0.0	0.4	20.7	0	0.05	
GP-033A	10/8/2025 8:15	0.0	4.3	17.7	0	-0.01	
GP-033B	10/8/2025 8:17	0.0	0.4	20.8	0	0.04	
GP-033C	10/8/2025 8:18	0.0	0.1	20.9	0	-0.08	
GP-034A	10/8/2025 8:21	0.0	8.5	15.7	0	0.14	
GP-034B	10/8/2025 8:22	0.0	0.1	20.6	0	0.02	
GP-034C	10/8/2025 8:23	0.0	0.1	19.9	0	1.35	
GP-035A	10/8/2025 8:26	0.0	5.2	17.2	0	0.04	
GP-035B	10/8/2025 8:27	0.0	0.1	20.9	0	-0.02	
GP-035C	10/8/2025 8:29	0.0	0.1	20.9	0	0	
GP-036A	10/8/2025 8:32	0.0	0.6	20.3	0	-0.64	
GP-036B	10/8/2025 8:34	0.0	2.2	19.2	0	0.2	
GP-036C	10/8/2025 8:35	0.0	0.2	13.4	0	1.45	
GP-037A	10/8/2025 8:38	0.0	1.9	18.1	0	0.03	
GP-037B	10/8/2025 8:38	0.0	0.5	18.7	0	0.3	Pump Fail @ 10 sec
GP-037C	10/8/2025 8:40	0.0	0.6	1.2	0	2.12	
GP-041A	10/8/2025 9:12	0.0	3.6	17.6	0	0.02	
GP-041B	10/8/2025 9:14	0.0	0.9	8.4	0	0.02	
GP-041C	10/8/2025 9:15	0.0	0.1	20.1	0	0.02	
GP-042A	10/8/2025 9:22	0.0	3.9	15.6	0	0.01	
GP-042B	10/8/2025 9:23	0.0	0.6	16.2	0	0.53	
GP-043A	10/8/2025 9:26	0.0	0.5	16.2	0	-0.07	Pump Fail @ 10 sec
GP-043B	10/8/2025 9:27	0.0	0.0	20.3	0	0.03	
GP-043C	10/8/2025 9:29	0.0	0.1	19.5	0	-0.01	
GP-044A	10/8/2025 9:37	0.0	8.0	12.4	0	0	
GP-044B	10/8/2025 9:38	0.0	0.7	16.7	0	0.36	
GP-044C	10/8/2025 9:40	0.0	0.1	20.3	0	-0.01	
GP-045D	10/8/2025 10:24	0.0	0.1	19.8	0	0.49	
GP-045I	10/8/2025 10:22	0.0	0.1	20.0	0	0.09	
GP-045S	10/8/2025 10:25	0.0	0.1	20.2	0	-0.01	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - October

Bar.Start:	**29.77**
Bar Stop:	**29.72**
Amb. Temp:	**65°F**
Tech:	**BL**

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-047D	10/8/2025 10:11	0.0	2.3	11.2	0	0.01	
GP-047I	10/8/2025 10:10	0.0	0.7	19.4	0	1.81	
GP-047S	10/8/2025 10:08	36.4	12.6	0.0	>>>>	1.87	
GP-05BA	10/8/2025 11:24	0.0	7.1	14.3	0	0.01	
GP-05BB	10/8/2025 11:25	0.0	1.7	18.2	0	1.73	
GP-05BC	10/8/2025 11:27	0.0	0.8	14.2	0	1.45	
GP-05BD	10/8/2025 11:28	0.0	1.0	10.8	0	1.62	
GP-063A	10/8/2025 12:17	0.0	5.5	16.5	0	0	
GP-063B	10/8/2025 12:18	0.0	0.1	19.5	0	0.45	
GP-063C	10/8/2025 12:20	0.0	0.3	19.7	0	0.96	
GP-064A	10/8/2025 11:51	0.0	0.1	20.1	0	0.01	Pump Fail @ 40 sec
GP-064B	10/8/2025 11:52	0.0	6.1	11.8	0	0.03	
GP-064C	10/8/2025 11:54	0.0	0.3	18.4	0	1.28	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - October

Bar.Start: 29.75
Bar Stop: 29.79
Amb. Temp: 51°F
Tech: JS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	10/9/2025 3:07	0.0	6.1	14.8	0	-1.48	
GB-4two	10/9/2025 3:06	0.0	2.3	18.1	0	-0.04	
GP-0003	10/9/2025 3:10	0.0	15.0	9.8	0	0.62	
GP-0007	10/8/2025 23:42	0.0	2.5	15.1	0	0.47	
GP-0008	10/8/2025 23:38	0.0	1.0	17.1	0	0.4	
GP-0009	10/8/2025 23:13	0.0	0.2	20.3	0	0.31	
GP-001A	10/8/2025 23:45	0.0	3.0	18.9	0	0.02	
GP-001B	10/8/2025 23:47	0.0	1.1	20.0	0	0.05	
GP-002A	10/9/2025 2:54	0.0	7.5	15.0	0	0.06	
GP-002B	10/9/2025 2:55	0.0	0.2	20.1	0	0.01	
GP-004A	10/9/2025 3:00	0.0	6.0	15.5	0	0.06	
GP-004B	10/9/2025 3:02	0.0	0.1	20.6	0	0.05	
GP-0055	10/8/2025 23:32	0.0	0.2	20.6	0	0.01	
GP-0056	10/8/2025 23:34	0.0	1.5	20.0	0	-0.1	
GP-0057	10/8/2025 23:26	27.8	14.0	12.0	>>>>	-8.01	
GP-0058	10/8/2025 23:28	0.0	8.7	13.1	0	-0.01	
GP-0059	10/8/2025 23:19	26.1	9.4	0.4	>>>>	-0.04	
GP-0060	10/8/2025 23:22	0.0	0.7	19.5	0	0.42	
GP-0061	10/8/2025 23:04	0.0	1.5	18.8	0	0.8	
GP-0062	10/8/2025 23:07	0.0	2.0	18.9	0	0.03	
GP-006A	10/8/2025 23:52	0.0	1.9	13.4	0	0.91	
GP-006B	10/8/2025 23:54	0.0	2.3	11.5	0	-0.32	
GP-006C	10/8/2025 23:56	0.0	0.7	17.8	0	1.51	
GP-006D	10/8/2025 23:57	0.0	3.9	2.5	0	0.91	
GP-006E	10/8/2025 23:59	0.0	0.1	20.8	0	1.52	
GP-006F	10/9/2025 0:01	0.0	0.9	15.6	0	1.53	
GP-006G	10/9/2025 0:03	0.0	1.0	15.4	0	0.23	
GP-006H	10/9/2025 0:05	0.0	3.8	2.6	0	0.79	
GP-046D	10/9/2025 3:19	0.0	0.1	21.0	0	0.07	
GP-046I	10/9/2025 3:17	0.0	0.1	21.0	0	-0.06	
GP-046S	10/9/2025 3:16	0.0	0.1	20.0	0	0.13	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - October

Bar.Start: 29.90
Bar Stop: 29.90
Amb. Temp: 55°F
Tech: BL

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	10/22/2025 13:27	0.0	0.3	15.4	0	-0.02	
Chgp013A	10/22/2025 13:09	0.0	1.7	18.3	0	-0.02	
Chgp013B	10/22/2025 13:10	0.0	0.4	17.2	0	0.05	
Chgp013C	10/22/2025 13:12	0.0	0.1	19.6	0	0.03	
Chgp013D	10/22/2025 13:14	0.0	0.1	19.5	0	0.72	
Chgp014A	10/22/2025 13:20	0.0	0.1	19.8	0	0.32	
Chgp014B	10/22/2025 13:22	0.0	0.1	19.7	0	-0.06	
Chgp015A	10/22/2025 13:40	0.0	5.4	13.8	0	-0.07	
Chgp015C	10/22/2025 13:42	0.0	1.3	13.1	0	-0.38	
Chgp015D	10/22/2025 13:43	0.0	0.1	20.1	0	-0.73	
Chgp016A	10/22/2025 13:51	0.0	1.7	18.9	0	-0.03	
Chgp016B	10/22/2025 13:53	0.0	0.1	19.9	0	-1.52	
Chgp016C	10/22/2025 13:54	0.0	0.1	19.9	0	0.34	
Chgp05BA	10/22/2025 13:30	0.0	8.2	12.6	0	0	
Chgp05BB	10/22/2025 13:31	0.0	1.6	18.3	0	0.01	
Chgp05BC	10/22/2025 13:33	0.0	0.9	18.7	0	-0.05	
Chgp05BD	10/22/2025 13:35	0.0	1.0	12.2	0	0.35	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - October

Bar.Start: 29.25
Bar Stop: 29.25
Amb. Temp: 53°F
Tech: BL

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	10/29/2025 14:17	0.0	0.1	19.5	0	-6.86	
Chgp013A	10/29/2025 13:57	0.0	1.6	17.5	0	0.39	
Chgp013B	10/29/2025 13:59	0.0	0.1	18.8	0	-0.73	
Chgp013C	10/29/2025 14:01	0.0	0.1	18.9	0	-0.14	
Chgp013D	10/29/2025 14:03	0.0	0.1	19.0	0	-4.9	
Chgp014A	10/29/2025 14:10	0.0	0.1	20.9	0	-3.08	
Chgp014B	10/29/2025 14:12	0.0	0.1	19.3	0	-2.07	
Chgp015A	10/29/2025 14:28	0.0	5.5	12.9	0	-0.01	
Chgp015C	10/29/2025 14:32	0.0	0.1	19.6	0	-0.03	
Chgp015D	10/29/2025 14:34	0.0	0.1	19.8	0	-1.25	
Chgp016A	10/29/2025 14:39	0.0	1.7	18.3	0	0.03	
Chgp016B	10/29/2025 14:41	0.0	0.1	19.7	0	-7.29	
Chgp016C	10/29/2025 14:43	0.0	0.1	19.7	0	-4.89	
Chgp05BA	10/29/2025 14:20	0.0	0.8	18.8	0	-0.04	
Chgp05BB	10/29/2025 14:21	0.0	0.1	19.6	0	-6.89	
Chgp05BC	10/29/2025 14:23	0.0	0.1	19.6	0	-6.92	
Chgp05BD	10/29/2025 14:24	0.0	0.6	19.1	0	-5.97	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - November

Bar.Start: 29.78
Bar Stop: 29.90
Amb. Temp: 48°F
Tech: JS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GB-4one	11/7/2025 0:59	0	6	15.2	0	-1.62	
GB-4two	11/7/2025 1:02	0	2.5	18	0	-3.13	
GP-0003	11/7/2025 1:07	0	6.8	12.2	0	0.07	
GP-0007	11/7/2025 0:20	0	0.2	20.3	0	-1.51	
GP-0008	11/7/2025 0:16	0.2	11.5	7.4	4	-1.63	
GP-0009	11/6/2025 23:46	0	2.4	16.6	0	-1.79	
GP-001A	11/7/2025 0:23	0	0.1	20.5	0	0.02	
GP-001B	11/7/2025 0:25	0	1	19.6	0	-0.01	
GP-002A	11/7/2025 0:45	0	9.5	3.6	0	0.03	
GP-002B	11/7/2025 0:47	0	0.1	20.8	0	0.03	
GP-004A	11/7/2025 0:53	0	0.1	20.9	0	-0.08	
GP-004B	11/7/2025 0:55	0	0.2	20.8	0	-0.42	
GP-0055	11/7/2025 0:08	18.6	10.4	10.1	>>>>	-0.13	
GP-0056	11/7/2025 0:10	0.1	2.6	16.7	2	8.08	
GP-0057	11/6/2025 23:58	51.2	24.6	0.4	>>>>	-1.34	
GP-0058	11/7/2025 0:00	0.1	10	9.3	2	-0.02	
GP-0059	11/6/2025 23:52	0.1	0.3	19.6	2	-0.88	
GP-0060	11/6/2025 23:54	0	0.5	19.4	0	0.01	
GP-0061	11/6/2025 23:34	0.1	0.7	19.3	2	-0.29	
GP-0062	11/6/2025 23:36	0	2.3	18.2	0	-1.96	
GP-006A	11/7/2025 0:29	0	1.9	11.2	0	-1.06	
GP-006B	11/7/2025 0:31	0	2.9	7.3	0	-1.46	
GP-006C	11/7/2025 0:32	0	2.3	16.7	0	-1.45	
GP-006D	11/7/2025 0:34	0	0.1	20.7	0	-1.72	
GP-006E	11/7/2025 0:36	0	1.9	11.5	0	-1.88	
GP-006F	11/7/2025 0:38	0	1.6	12.2	0	-2.21	
GP-006G	11/7/2025 0:39	0	0.1	20.8	0	-1.54	
GP-006H	11/7/2025 0:41	0	0.1	20.8	0	-2.04	
GP-046D	11/7/2025 1:17	0	0.1	20.7	0	-1.48	
GP-046I	11/7/2025 1:15	0	0.1	20.7	0	-2.17	
GP-046S	11/7/2025 1:14	0	0.1	20.5	0	-0.3	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - November

Bar.Start: 29.90
Bar Stop: 30.00
Amb. Temp: 51
Tech: AT

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	11/20/2025 13:33	0	0.3	15.9	0	1	
ATC-01S	11/20/2025 13:32	0	0.5	19.3	0	-0.01	
ATC-03D	11/20/2025 15:02	0	2	16.1	0	-2.59	
ATC-03S	11/20/2025 15:00	0	1.4	18.4	0	-2.39	
ATC-06D	11/20/2025 15:29	0	0.7	14.6	0	0.62	
ATC-06S	11/20/2025 15:28	0	1.9	18.1	0	0.04	
ATC-08D	11/20/2025 15:40	0	0.3	14.5	0	0.76	
ATC-08S	11/20/2025 15:39	0	2.2	17.3	0	0.02	
GP-0025	11/20/2025 18:15	0	2.7	15	0	-0.03	
GP-0026	11/20/2025 18:20	0	0.3	18.8	0	-1.61	
GP-0027	11/20/2025 18:24	0	8.6	9.9	0	-0.04	
GP-0039	11/20/2025 12:32	0	0.4	18.9	0	-0.02	
GP-0040	11/20/2025 12:37	0	0.1	20.1	0	-1.6	
GP-0052	11/20/2025 19:01	0	0.3	20.6	0	0.01	
GP-0053	11/20/2025 19:03	0	0.3	19.7	0	-0.69	
GP-0054	11/20/2025 19:04	0	0.1	20.7	0	0.26	
GP-005A	11/20/2025 14:11	0	0.4	11.7	0	-2.9	
GP-011A	11/20/2025 13:18	0	0.9	20.2	0	0.03	
GP-011B	11/20/2025 13:19	0	0.1	21	0	-1.06	
GP-011C	11/20/2025 13:20	0	0.1	20.7	0	-1.16	
GP-011D	11/20/2025 13:22	0	0.3	15.5	0	0.05	
GP-012A	11/20/2025 13:41	0	0.5	20.7	0	-0.01	
GP-012B	11/20/2025 13:42	0	0.1	20.7	0	-0.06	
GP-012C	11/20/2025 13:43	0	0.2	20.7	0	-0.04	
GP-012D	11/20/2025 13:45	0	0.1	20.7	0	-0.4	
GP-013A	11/20/2025 13:50	0	0.9	20.4	0	0	
GP-013B	11/20/2025 13:51	0	0.1	20.7	0	-0.43	
GP-013C	11/20/2025 13:52	0	0.1	20.7	0	-0.11	
GP-013D	11/20/2025 13:56	0	0.1	20.7	0	0.01	
GP-014A	11/20/2025 14:02	0	0.1	20.7	0	-1.32	
GP-014B	11/20/2025 14:03	0	0.1	20.7	0	-1.52	
GP-015A	11/20/2025 15:06	0	0.8	19	0	0.06	PUMP FAILED
GP-015C	11/20/2025 15:07	0	0.9	14.8	0	0.06	
GP-015D	11/20/2025 15:09	0	0.1	19.7	0	0.15	
GP-016A	11/20/2025 15:32	0	0.5	19.7	0	0.09	
GP-016B	11/20/2025 15:33	0	0.1	20	0	-0.73	
GP-016C	11/20/2025 15:35	0	0.1	20.3	0	-2.15	
GP-017A	11/20/2025 17:23	0	0.5	19.5	0	0	
GP-017B	11/20/2025 17:24	0	0.7	13.3	0	-0.03	
GP-017C	11/20/2025 17:26	0	0.1	19.7	0	-2.46	
GP-018A	11/20/2025 17:30	0	2.5	16.3	0	0	
GP-018B	11/20/2025 17:31	0	0.3	17.5	0	-0.02	
GP-018C	11/20/2025 17:32	0	0.2	18.5	0	-2.44	
GP-019A	11/20/2025 17:35	0	0.1	20	0	-0.02	
GP-019B	11/20/2025 17:37	0	0.6	15.8	0	-0.02	
GP-019C	11/20/2025 17:38	0	0.1	20.1	0	-0.18	
GP-020A	11/20/2025 17:41	0	0.7	18.8	0	-0.05	
GP-020B	11/20/2025 17:42	0	0.2	19.6	0	-0.49	
GP-020C	11/20/2025 17:44	0	0.3	10.7	0	-1.43	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - November

Bar.Start: 29.90
Bar Stop: 30.00
Amb. Temp: 51
Tech: AT

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-021A	11/20/2025 17:49	0	0.4	19.1	0	1.52	
GP-021B	11/20/2025 17:50	0	0.1	10.2	0	-0.81	
GP-021C	11/20/2025 17:50	0	0.1	14.1	0	-6.89	
GP-022A	11/20/2025 17:54	0	3.3	16.5	0	14.53	
GP-022C	11/20/2025 17:55	0	0.8	6.2	0	-1.69	
GP-023A	11/20/2025 18:03	0	0.1	20.1	0	-0.09	
GP-023B	11/20/2025 18:04	0	0.1	20.3	0	0.01	
GP-023C	11/20/2025 18:05	0	0.1	20.4	0	-0.05	
GP-024A	11/20/2025 18:10	0	2	17.7	0	-0.22	
GP-024B	11/20/2025 18:11	0	0.1	20.3	0	-1.56	
GP-029A	11/20/2025 18:38	0	1.6	19.3	0	0.07	
GP-029B	11/20/2025 18:39	0.1	0.2	20.7	2	-0.15	PUMP FAILED
GP-030A	11/20/2025 11:35	0	0.3	20.6	0	-0.04	
GP-030B	11/20/2025 11:37	0	1.2	20.3	0	-1.71	
GP-031A	11/20/2025 11:40	0	6	14.4	0	0.08	
GP-031B	11/20/2025 11:41	0	0.2	20.5	0	-1.39	
GP-031C	11/20/2025 11:42	0	1.2	18.7	0	0.03	
GP-032A	11/20/2025 11:47	0	0.1	20.7	0	-0.09	
GP-032B	11/20/2025 11:48	0	0.2	20.6	0	0.06	
GP-032C	11/20/2025 11:49	0	0.4	20.5	0	-0.02	
GP-033A	11/20/2025 11:53	0	6.1	10.8	0	-0.03	
GP-033B	11/20/2025 11:54	0	0.3	20.6	0	-0.03	
GP-033C	11/20/2025 11:55	0	0.1	20.7	0	-2.09	
GP-034A	11/20/2025 11:59	0	8.7	12.2	0	0.17	
GP-034B	11/20/2025 12:00	0	0.2	20.7	0	-0.22	
GP-034C	11/20/2025 12:01	0	0.1	20.7	0	-1.82	
GP-035A	11/20/2025 12:08	0	7.7	10.9	0	0.03	
GP-035B	11/20/2025 12:09	0	0.2	20.6	0	0	
GP-035C	11/20/2025 12:10	0	0.1	20.7	0	-0.1	
GP-036A	11/20/2025 12:15	0	0.3	20.7	0	-1.98	
GP-036B	11/20/2025 12:16	0	2.2	17.2	0	-0.02	
GP-036C	11/20/2025 12:17	0	0.1	20.7	0	-0.55	
GP-037A	11/20/2025 12:22	0	0.3	20.6	0	0.09	
GP-037B	11/20/2025 12:24	0	0.2	20.7	0	0.29	
GP-037C	11/20/2025 12:25	0	0.3	18.6	0	-1.58	
GP-041A	11/20/2025 12:42	0	3.5	17.2	0	-0.03	
GP-041B	11/20/2025 12:43	0	0.9	8.6	0	0	
GP-041C	11/20/2025 12:44	0	0.1	20.7	0	-0.02	
GP-042A	11/20/2025 12:50	0	0.5	20.5	0	-0.08	
GP-042B	11/20/2025 12:52	0	0.2	20.7	0	-0.58	
GP-043A	11/20/2025 12:57	0	0.5	20.2	0	0.42	PUMP FAILED
GP-043B	11/20/2025 12:58	0	0.2	20.2	0	0.05	PUMP FAILED
GP-043C	11/20/2025 12:59	0	0.1	19.4	0	0.01	
GP-044A	11/20/2025 13:04	0	0.1	20.7	0	0.02	
GP-044B	11/20/2025 13:05	0	0.5	16.2	0	-0.54	
GP-044C	11/20/2025 13:06	0	0.1	20.7	0	-0.02	
GP-045D	11/20/2025 13:17	0	0.1	20.7	0	-1.17	
GP-045I	11/20/2025 13:15	0	0.1	20.7	0	-0.14	
GP-045S	11/20/2025 13:13	0	0.1	20.2	0	0	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - November

Bar.Start: 29.90
Bar Stop: 30.00
Amb. Temp: 51
Tech: AT

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-047D	11/20/2025 19:17	0	0.5	18.5	0	-0.02	
GP-047I	11/20/2025 19:16	0	3.2	16.6	0	-2.85	
GP-047S	11/20/2025 19:15	0	0.1	20.6	0	-2.76	
GP-05BA	11/20/2025 14:13	0	0.4	19.5	0	0.26	
GP-05BB	11/20/2025 14:14	0	0.1	20.7	0	-2.87	
GP-05BC	11/20/2025 14:15	0	0.1	20.7	0	-2.92	
GP-05BD	11/20/2025 14:17	0	0.1	20.7	0	-2.76	
GP-063A	11/20/2025 15:44	0	1.9	17.8	0	0.19	
GP-063B	11/20/2025 15:45	0	0.2	20.3	0	0.07	
GP-063C	11/20/2025 15:46	0	0.1	20.5	0	-2.14	
GP-064A	11/20/2025 15:14	0	0.1	19.9	0	0.21	
GP-064B	11/20/2025 15:16	0	1.8	18.1	0	0.1	
GP-064C	11/20/2025 15:17	0	0.1	20	0	-1.85	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - November

Bar.Start: 29.85
Bar Stop: 29.82
Amb. Temp: 47
Tech: AT

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	11/6/2025 10:18	0	0.6	11.7	0	0.52	
Chgp013A	11/6/2025 9:50	0	1.1	19.3	0	0.01	
Chgp013B	11/6/2025 9:51	0	0.2	19.9	0	0	
Chgp013C	11/6/2025 9:52	0	0.1	20.3	0	0.01	
Chgp013D	11/6/2025 9:55	0	0.1	20.4	0	-0.09	
Chgp014A	11/6/2025 10:03	0	0.1	20.3	0	0	
Chgp014B	11/6/2025 10:05	0	0.1	20.7	0	-0.04	
Chgp015A	11/6/2025 10:36	0	1.4	19.9	0	-0.06	
Chgp015C	11/6/2025 10:37	0	1.6	12.8	0	-0.13	
Chgp015D	11/6/2025 10:41	0	0.2	20.6	0	0	
Chgp016A	11/6/2025 11:01	0	1.9	18.5	0	0.01	
Chgp016B	11/6/2025 11:03	0	0.5	15.6	0	0.37	
Chgp016C	11/6/2025 11:04	0	0.4	19.1	0	-0.64	
Chgp05BA	11/6/2025 10:21	0	0.3	20.3	0	0.17	
Chgp05BB	11/6/2025 10:29	0	2.1	15.7	0	0.5	
Chgp05BC	11/6/2025 10:26	0	1.2	10	0	0.38	
Chgp05BD	11/6/2025 10:27	0	0.2	20.7	0	-0.07	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - December

Bar.Start: 29.90
Bar Stop: 30.00
Amb. Temp: 56*F
Tech: DNS

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-0061	12/11/2025 2:24	0.0	2.3	19.1	0.0	0.3	
GP-0062	12/11/2025 2:26	0.0	2.1	18.9	0.0	0.3	
GP-0009	12/11/2025 2:37	0.0	1.8	16.0	0.0	-0.6	
GP-0059	12/11/2025 2:43	22.3	7.3	8.6	>>>>	0.1	
GP-0060	12/11/2025 2:45	0.0	0.4	20.5	0.0	0.2	
GP-0057	12/11/2025 2:50	51.8	24.7	0.1	>>>>	0.2	
GP-0058	12/11/2025 2:53	0.0	14.7	1.3	0.0	26.9	
GP-0055	12/11/2025 3:00	23.4	11.6	4.9	>>>>	0.4	
GP-0056	12/11/2025 3:02	0.0	2.0	15.0	0.0	0.3	
GP-0008	12/11/2025 3:10	0.0	3.8	15.9	4.0	-0.5	
GP-0007	12/11/2025 3:16	0.0	2.2	15.3	0.0	-0.6	
GP-001A	12/11/2025 3:21	0.0	0.1	21.0	0.0	0.4	
GP-001B	12/11/2025 3:25	0.0	3.9	14.2	0.0	0.2	
GP-006A	12/11/2025 3:29	0.0	1.9	10.0	0.0	-0.2	
GP-006B	12/11/2025 3:31	0.0	3.1	7.4	0.0	-0.5	
GP-006C	12/11/2025 3:33	0.0	1.8	18.3	0.0	-0.4	
GP-006D	12/11/2025 3:36	0.0	3.9	2.3	0.0	-0.6	
GP-006E	12/11/2025 3:38	0.0	1.8	11.7	0.0	-0.3	
GP-006F	12/11/2025 3:40	0.0	1.8	11.4	0.0	-0.7	
GP-006G	12/11/2025 3:42	0.0	4.0	2.2	0.0	-0.6	
GP-006H	12/11/2025 3:44	0.0	0.1	21.0	0.0	-0.5	
GP-002A	12/11/2025 4:09	0.0	4.5	7.8	0.0	0.3	
GP-002B	12/11/2025 4:11	0.0	0.1	21.0	0.0	0.3	
GP-004A	12/11/2025 4:23	0.0	0.1	21.0	0.0	0.2	
GP-004B	12/11/2025 4:24	0.0	0.2	21.0	0.0	0.2	
GB-4one	12/11/2025 4:27	0.0	0.1	21.0	0.0	0.6	NR H2O
GB-4two	12/11/2025 4:29	0.0	0.1	21.0	0.0	1.5	
GP-0003	12/11/2025 4:35	0.0	0.1	21.0	0.0	-1.5	
GP-046S	12/11/2025 4:40	0.0	0.1	21.0	0.0	0.3	
GP-046I	12/11/2025 4:42	0.0	0.1	21.0	0.0	2.6	
GP-046D	12/11/2025 4:44	0.0	0.1	21.0	0.0	1.5	
GP-048S	12/11/2025 4:45	0.0	0.1	21.0	0.0	0.2	DECOMISSIONED
GP-048I	12/11/2025 4:46	0.0	0.1	21.0	0.0	0.2	DECOMISSIONED
GP-048D	12/11/2025 4:47	0.0	0.1	21.0	0.0	0.2	DECOMISSIONED

CEDAR HILLS REGIONAL LANDFILL - December

Bar.Start: 29.73
Bar Stop: 29.80
Amb. Temp: 45
Tech: R.KORICH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-01D	12/16/2025 11:01	0.0	0.5	11.2	0.0	0.0	
ATC-01S	12/16/2025 11:00	0.0	0.1	20.4	0.0	-0.1	
ATC-03D	12/17/2025 9:28	0.0	3.0	16.3	0.0	0.1	
ATC-03S	12/17/2025 9:27	0.0	0.0	0.0	0.0	0.0	Water Blocked
ATC-06D	12/17/2025 9:45	0.0	1.0	11.5	0.0	0.1	
ATC-06S	12/17/2025 9:44	0.0	0.0	0.0	0.0	0.0	Water Blocked
ATC-08D	12/17/2025 10:02	0.0	0.4	11.6	0.0	0.0	
ATC-08S	12/17/2025 10:02	0.0	0.2	20.4	0.0	-1.2	
GP-0025	12/17/2025 11:16	0.0	2.4	13.4	0.0	3.0	
GP-0026	12/17/2025 11:18	0.0	0.8	18.5	0.0	0.0	
GP-0027	12/16/2025 8:06	0.0	9.5	10.6	0.0	0.0	
GP-0039	12/16/2025 9:38	0.0	0.8	16.8	0.0	0.7	
GP-0040	12/16/2025 9:50	0.0	0.2	18.5	0.0	0.0	
GP-0052	12/16/2025 10:41	0.0	0.0	0.0	0.0	0.0	Blocked Pump Fail
GP-0053	12/16/2025 10:43	0.0	0.3	19.0	0.0	0.0	
GP-0054	12/16/2025 10:40	0.0	0.0	0.0	0.0	0.0	Blocked Pump Fail
GP-005A	12/17/2025 9:18	0.0	0.6	12.5	0.0	1.2	
GP-011A	12/16/2025 10:52	0.0	0.2	20.2	0.0	0.0	
GP-011B	12/16/2025 10:53	0.0	0.1	20.3	0.0	-0.1	
GP-011C	12/16/2025 10:54	0.0	0.1	20.3	0.0	0.0	
GP-011D	12/16/2025 10:55	0.0	0.2	19.1	0.0	0.0	
GP-012A	12/16/2025 11:06	0.0	0.1	20.4	0.0	0.0	
GP-012B	12/16/2025 11:07	0.0	0.1	20.5	0.0	-0.1	
GP-012C	12/16/2025 11:08	0.0	0.2	16.7	0.0	0.0	
GP-012D	12/16/2025 11:09	0.0	0.3	18.6	0.0	0.3	
GP-013A	12/16/2025 11:12	0.0	0.2	20.4	0.0	0.0	
GP-013B	12/16/2025 11:13	0.0	0.3	19.8	0.0	0.0	
GP-013C	12/16/2025 11:14	0.0	0.1	20.7	0.0	-0.1	
GP-013D	12/16/2025 11:15	0.0	0.2	19.8	0.0	1.2	
GP-014A	12/16/2025 11:23	0.0	0.2	19.2	0.0	0.3	
GP-014B	12/16/2025 11:21	0.0	0.2	18.3	0.0	0.6	
GP-015A	12/17/2025 9:31	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-015C	12/17/2025 9:32	0.0	1.1	17.2	0.0	0.0	
GP-015D	12/17/2025 9:33	0.0	0.2	20.7	0.0	0.0	
GP-016A	12/17/2025 9:57	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-016B	12/17/2025 9:58	0.0	0.2	20.5	0.0	-0.1	
GP-016C	12/17/2025 10:00	0.0	1.1	13.8	0.0	-0.1	
GP-017A	12/17/2025 10:37	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-017B	12/17/2025 10:38	0.0	0.9	13.6	0.0	0.0	
GP-017C	12/17/2025 10:39	0.0	0.2	19.6	0.0	-0.2	
GP-018A	12/17/2025 10:41	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-018B	12/17/2025 10:42	0.0	0.3	17.3	0.0	-0.1	
GP-018C	12/17/2025 10:43	0.0	0.3	16.4	0.0	-0.3	
GP-019A	12/17/2025 10:46	0.0	0.4	16.4	0.0	0.0	
GP-019B	12/17/2025 10:47	0.0	0.8	15.5	0.0	0.0	
GP-019C	12/17/2025 10:48	0.0	0.1	20.2	0.0	0.0	
GP-020A	12/17/2025 10:51	0.0	0.1	20.4	0.0	0.0	
GP-020B	12/17/2025 10:52	0.0	0.4	15.0	0.0	0.0	
GP-020C	12/17/2025 10:54	0.0	0.3	4.9	0.0	0.5	

CEDAR HILLS REGIONAL LANDFILL - December

Bar.Start: 29.73
Bar Stop: 29.80
Amb. Temp: 45
Tech: R.KORICH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-021A	12/17/2025 10:56	0.0	0.3	19.9	0.0	2.0	
GP-021B	12/17/2025 10:57	0.0	0.3	9.8	0.0	-1.8	
GP-021C	12/17/2025 10:58	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-022A	12/17/2025 11:01	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-022C	12/17/2025 11:03	0.0	1.2	6.0	0.0	0.0	
GP-023A	12/17/2025 11:08	0.0	0.1	20.2	0.0	0.0	
GP-023B	12/17/2025 11:09	0.0	0.2	20.4	0.0	-0.1	
GP-023C	12/17/2025 11:10	0.0	0.1	20.6	0.0	0.0	
GP-024A	12/17/2025 11:12	0.0	0.2	20.4	0.0	0.0	
GP-024B	12/17/2025 11:13	0.0	3.8	13.7	0.0	0.0	
GP-029A	12/16/2025 7:53	0.0	4.6	16.2	0.0	0.1	
GP-029B	12/16/2025 7:54	0.0	0.6	20.7	0.0	0.0	
GP-030A	12/16/2025 8:14	0.0	0.3	20.5	0.0	0.1	
GP-030B	12/16/2025 8:15	0.0	0.2	20.6	0.0	0.4	
GP-031A	12/16/2025 8:18	0.0	7.6	13.0	0.0	4.9	
GP-031B	12/16/2025 8:19	0.0	0.5	15.5	0.0	2.0	
GP-031C	12/16/2025 8:20	0.0	2.1	17.0	0.0	0.0	
GP-032A	12/16/2025 8:24	0.0	2.8	17.6	0.0	0.9	
GP-032B	12/16/2025 8:25	0.0	2.0	18.5	0.0	0.0	
GP-032C	12/16/2025 8:26	0.0	1.7	18.8	0.0	0.0	
GP-033A	12/16/2025 8:40	0.0	0.6	19.9	0.0	0.0	
GP-033B	12/16/2025 8:41	0.0	0.8	18.0	0.0	0.0	
GP-033C	12/16/2025 8:42	0.0	0.2	20.1	0.0	0.0	
GP-034A	12/16/2025 8:50	0.0	0.3	19.9	0.0	2.7	
GP-034B	12/16/2025 8:51	0.0	0.3	20.0	0.0	0.0	
GP-034C	12/16/2025 8:52	0.0	0.2	18.8	0.0	0.7	
GP-035A	12/16/2025 8:54	0.0	0.6	19.2	0.0	0.1	
GP-035B	12/16/2025 8:56	0.0	0.4	10.7	0.0	0.0	
GP-035C	12/16/2025 8:56	0.0	0.2	19.3	0.0	0.0	
GP-036A	12/16/2025 9:11	0.0	0.6	5.7	0.0	3.1	
GP-036B	12/16/2025 9:11	0.0	0.2	19.6	0.0	-0.1	
GP-036C	12/16/2025 9:13	0.0	0.5	10.6	0.0	1.2	
GP-037A	12/16/2025 9:26	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-037B	12/16/2025 9:28	0.0	0.0	0.0	0.0	0.0	Blocked Pump Fail
GP-037C	12/16/2025 9:29	0.0	0.8	2.0	0.0	0.8	
GP-041A	12/16/2025 9:52	0.0	0.1	19.5	0.0	0.0	
GP-041B	12/16/2025 9:53	0.0	0.2	19.4	0.0	0.0	
GP-041C	12/16/2025 9:55	0.0	0.1	19.6	0.0	0.0	
GP-042A	12/16/2025 10:11	0.0	0.0	0.0	0.0	0.0	Water Blocked
GP-042B	12/16/2025 10:13	0.0	0.2	19.4	0.0	0.4	
GP-043A	12/16/2025 10:22	0.0	0.0	0.0	0.0	0.0	Blocked Pump Fail
GP-043B	12/16/2025 10:23	0.0	0.0	0.0	0.0	0.0	Blocked Pump Fail
GP-043C	12/16/2025 10:23	0.0	0.2	18.2	0.0	0.0	
GP-044A	12/16/2025 10:27	0.0	0.2	19.0	0.0	0.0	Water @ 35 sec
GP-044B	12/16/2025 10:28	0.0	1.1	10.5	0.0	0.6	
GP-044C	12/16/2025 10:29	0.0	0.1	19.5	0.0	0.0	
GP-045D	12/16/2025 10:50	0.0	0.2	19.2	0.0	0.5	
GP-045I	12/16/2025 10:49	0.0	0.1	20.3	0.0	0.0	
GP-045S	12/16/2025 10:48	0.0	0.1	20.1	0.0	0.0	

DNRP / KCSWD
CEDAR HILLS LANDFILL
PERIMETER PROBES

CEDAR HILLS REGIONAL LANDFILL - December

Bar.Start: 29.73
Bar Stop: 29.80
Amb. Temp: 45
Tech: R.KORICH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-047D	12/17/2025 10:28	0.0	0.9	10.1	0.0	0.0	
GP-047I	12/17/2025 10:27	0.9	11.7	2.0	18.0	-0.6	
GP-047S	12/17/2025 10:26	61.0	12.4	0.0	1220.0	0.0	
GP-05BA	12/17/2025 9:20	0.0	1.6	17.3	0.0	-7.0	
GP-05BB	12/17/2025 9:22	0.0	2.3	10.0	0.0	1.1	
GP-05BC	12/17/2025 9:23	0.0	1.7	4.9	0.0	0.9	
GP-05BD	12/17/2025 9:24	0.0	1.2	12.1	0.0	0.3	
GP-063A	12/17/2025 10:08	0.0	0.4	20.1	0.0	-0.1	
GP-063B	12/17/2025 10:09	0.0	0.2	20.5	0.0	-0.1	
GP-063C	12/17/2025 10:10	0.0	0.3	17.8	0.0	0.0	
GP-064A	12/17/2025 9:38	0.0	0.2	20.7	0.0	0.0	
GP-064B	12/17/2025 9:40	0.0	1.2	20.1	0.0	0.0	
GP-064C	12/17/2025 9:42	0.0	0.7	5.1	0.0	0.0	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - December

Bar.Start: 30.02
Bar Stop: 30.08
Amb. Temp: 60
Tech: R.KORICH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	12/2/2025 10:22	0.0	0.3	20.4	0.0	-1.0	
Chgp013A	12/2/2025 10:05	0.0	2.0	18.6	0.0	0.0	
Chgp013B	12/2/2025 10:06	0.0	1.1	18.8	0.0	0.0	
Chgp013C	12/2/2025 10:08	0.0	0.8	18.5	0.0	0.0	
Chgp013D	12/2/2025 10:09	0.0	0.6	18.9	0.0	0.0	
Chgp014A	12/2/2025 10:15	0.0	0.5	20.2	0.0	0.0	
Chgp014B	12/2/2025 10:16	0.0	0.4	20.1	0.0	0.0	
Chgp015A	12/2/2025 10:41	0.0	0.6	20.5	0.0	0.0	
Chgp015C	12/2/2025 10:42	0.0	0.8	15.6	0.0	0.1	
Chgp015D	12/2/2025 10:43	0.0	0.4	20.6	0.0	0.1	
Chgp016A	12/2/2025 10:33	0.0	0.4	20.7	0.0	0.0	
Chgp016B	12/2/2025 10:35	0.0	0.3	20.8	0.0	-0.2	
Chgp016C	12/2/2025 10:36	0.0	0.3	20.8	0.0	-0.8	
Chgp05BA	12/2/2025 10:24	0.0	0.5	20.9	0.0	0.0	
Chgp05BB	12/2/2025 10:25	0.0	0.3	20.7	0.0	-1.0	
Chgp05BC	12/2/2025 10:27	0.0	0.3	19.9	0.0	-1.0	
Chgp05BD	12/2/2025 10:28	0.0	0.3	20.0	0.0	-0.9	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - December

Bar.Start: 29.82
Bar Stop: 29.82
Amb. Temp: 60
Tech: R.KORICH

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	12/10/2025 14:13	0.0	0.4	16.5	0.0	2.3	
Chgp013A	12/10/2025 13:59	0.0	0.3	20.6	0.0	0.0	
Chgp013B	12/10/2025 14:00	0.0	0.6	19.0	0.0	0.0	
Chgp013C	12/10/2025 14:01	0.0	0.3	19.1	0.0	0.0	
Chgp013D	12/10/2025 14:02	0.0	0.2	19.3	0.0	1.3	
Chgp014A	12/10/2025 14:07	0.0	0.2	18.6	0.0	0.2	
Chgp014B	12/10/2025 14:08	0.0	0.3	18.5	0.0	0.2	
Chgp015A	12/10/2025 14:31	0.0	0.7	20.1	0.0	2.2	Water @ 30 sec
Chgp015C	12/10/2025 14:32	0.0	1.1	16.8	0.0	0.0	
Chgp015D	12/10/2025 14:33	0.0	0.2	20.9	0.0	0.1	
Chgp016A	12/10/2025 14:23	0.0	0.4	20.2	0.0	0.1	Water @ 30 sec
Chgp016B	12/10/2025 14:25	0.0	0.3	20.7	0.0	0.0	
Chgp016C	12/10/2025 14:26	0.0	1.1	14.1	0.0	1.8	
Chgp05BA	12/10/2025 14:14	0.0	0.7	20.4	0.0	5.3	
Chgp05BB	12/10/2025 14:15	0.0	2.3	10.3	0.0	2.1	
Chgp05BC	12/10/2025 14:17	0.0	1.8	7.2	0.0	2.4	
Chgp05BD	12/10/2025 14:18	0.0	1.1	12.3	0.0	1.8	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - December

Bar.Start: 29.73
Bar Stop: 29.80
Amb. Temp: 45
Tech: R.Korich

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	12/17/2025 9:18	0.0	0.6	12.5	0.0	1.2	
Chgp05BA	12/17/2025 9:20	0.0	1.6	17.3	0.0	-7.0	
Chgp05BB	12/17/2025 9:22	0.0	2.3	10.0	0.0	1.1	
Chgp05BC	12/17/2025 9:23	0.0	1.7	4.9	0.0	0.9	
Chgp05BD	12/17/2025 9:24	0.0	1.2	12.1	0.0	0.3	
Chgp013A	12/16/2025 11:12	0.0	0.2	20.4	0.0	0.0	
Chgp013B	12/16/2025 11:13	0.0	0.3	19.8	0.0	0.0	
Chgp013C	12/16/2025 11:14	0.0	0.1	20.7	0.0	-0.1	
Chgp013D	12/16/2025 11:15	0.0	0.2	19.8	0.0	1.2	
Chgp014A	12/16/2025 11:23	0.0	0.2	19.2	0.0	0.3	
Chgp014B	12/16/2025 11:21	0.0	0.2	18.3	0.0	0.6	
Chgp015A	12/17/2025 9:31	0.0	0.0	0.0	0.0	0.0	Water Blocked
Chgp015C	12/17/2025 9:32	0.0	1.1	17.2	0.0	0.0	
Chgp015D	12/17/2025 9:33	0.0	0.2	20.7	0.0	0.0	
Chgp016A	12/17/2025 9:57	0.0	0.0	0.0	0.0	0.0	Water Blocked
Chgp016B	12/17/2025 9:58	0.0	0.2	20.5	0.0	-0.1	
Chgp016C	12/17/2025 10:00	0.0	1.1	13.8	0.0	-0.1	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - December

Bar.Start:
Bar Stop:
Amb. Temp:
Tech:

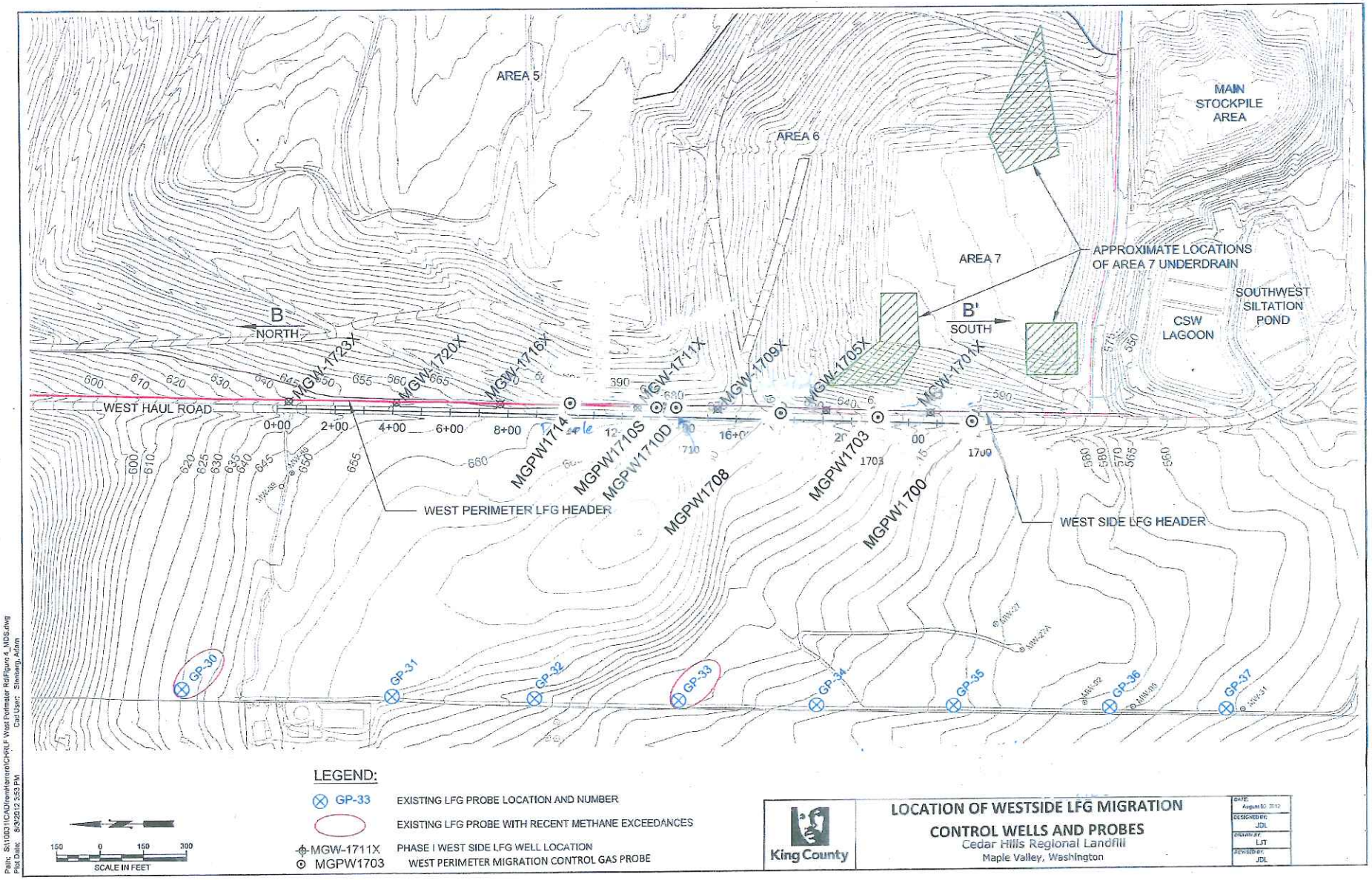
Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	12/22/2025 11:22	0.0	0.7	10.1	0.0	1.0	
Chgp013A	12/22/2025 11:07	0.0	0.2	19.7	0.0	-0.1	
Chgp013B	12/22/2025 11:08	0.0	0.4	19.2	0.0	9.5	
Chgp013C	12/22/2025 11:10	0.0	0.1	20.0	0.0	-0.1	
Chgp013D	12/22/2025 11:11	0.0	0.1	20.1	0.0	-0.1	
Chgp014A	12/22/2025 11:15	0.0	0.2	18.4	0.0	0.0	
Chgp014B	12/22/2025 11:17	0.0	0.4	16.8	0.0	-0.1	
Chgp015A	12/22/2025 11:30	0.0	0.0	0.0	0.0	0.0	Water Blocked
Chgp015C	12/22/2025 11:31	0.0	1.0	17.3	0.0	-0.1	
Chgp015D	12/22/2025 11:32	0.0	0.2	20.7	0.0	0.0	
Chgp016A	12/22/2025 11:38	0.0	0.3	21.0	0.0	0.0	
Chgp016B	12/22/2025 11:39	0.0	0.3	20.6	0.0	0.0	
Chgp016C	12/22/2025 11:40	0.0	1.1	14.1	0.0	0.3	
Chgp05BA	12/22/2025 11:23	0.0	0.0	0.0	0.0	0.0	Water Blocked
Chgp05BB	12/22/2025 11:24	0.0	2.3	5.8	0.0	1.0	
Chgp05BC	12/22/2025 11:25	0.0	2.0	7.1	0.0	0.9	
Chgp05BD	12/22/2025 11:26	0.0	1.3	11.7	0.0	0.5	

DNRP / KCSW
CEDAR HILLS LANDFILL
ATC WEEKLY PROBES

CEDAR HILLS ATC WEEKLY - December

Bar.Start: 30.06
Bar Stop: 30.09
Amb. Temp: 64
Tech: R.Korich

Probe ID	Date/Time	CH_4 %vol	CO_2 %vol	O_2 %vol	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
Chgp005A	12/30/2025 13:09	0.0	0.1	20.6	0.0	-2.4	
Chgp013A	12/30/2025 13:29	0.0	0.3	20.7	0.0	-1.37	
Chgp013B	12/30/2025 13:30	0.0	0.3	20.4	0.0	-0.77	
Chgp013C	12/30/2025 13:31	0.0	0.2	18.8	0.0	-0.11	
Chgp013D	12/30/2025 13:32	0.0	0.1	20.7	0.0	-0.17	
Chgp014A	12/30/2025 13:25	0.0	0.1	20.7	0.0	-0.05	
Chgp014B	12/30/2025 13:26	0.0	0.1	20.8	0.0	-0.05	
Chgp015A	12/30/2025 13:16	0.0	0.5	20.4	0.0	-0.63	Water @ 30 sec
Chgp015C	12/30/2025 13:18	0.0	0.9	17.1	0.0	-0.03	
Chgp015D	12/30/2025 13:19	0.0	0.2	20.5	0.0	-0.03	
Chgp016A	12/30/2025 13:02	0.0	0.3	20.4	0.0	-0.77	
Chgp016B	12/30/2025 13:04	0.0	0.1	20.5	0.0	-0.15	
Chgp016C	12/30/2025 13:04	0.0	0.1	20.5	0.0	-0.97	
Chgp05BA	12/30/2025 13:10	0.0	1.2	20.1	0.0	-4.78	Water @ 30 sec
Chgp05BB	12/30/2025 13:11	0.0	0.1	20.5	0.0	-2.55	
Chgp05BC	12/30/2025 13:12	0.0	0.1	20.5	0.0	-2.61	
Chgp05BD	12/30/2025 13:13	0.0	0.1	20.5	0.0	-1.57	



LEGEND:

- GP-33 — EXISTING LFG PROBE LOCATION AND NUMBER
- EXISTING LFG PROBE WITH RECENT METHANE EXCEEDANCES
- MGW-1711X — PHASE I WEST SIDE LFG WELL LOCATION
- MGPW1703 — WEST PERIMETER MIGRATION CONTROL GAS PROBE

150 0 150 300
SCALE IN FEET

King County

LOCATION OF WESTSIDE LFG MIGRATION CONTROL WELLS AND PROBES

Cedar Hills Regional Landfill
Maple Valley, Washington

DATE: August 30, 2012
DESIGNED BY: JDL
DRAWN BY: LJT
REVISED BY: JDL

Path: S:\1003\1\CAD\Irene\Herrera\G-HWLF West Perimeter Rd\Figure 4_MDS.dwg
Plot Date: 8/30/2012 3:53 PM
Cad User: Stensrud, Adam

CEDAR HILLS REGIONAL LANDFILL

West Perimeter Landfill Gas Migration Control Probes

First Quarter 2025 Monitoring Data

Probe ID	Date	Time	Barometric Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Static Pressure in INWC	Comments
MGPW 1700	01/02/2025	12:00 PM	29.99	0.00	2.50	19.30	0.01	
MGPW 1700	01/15/2025	12:00 PM	30.28	0.00	0.40	19.60	0.04	
MGPW 1700	02/10/2025	12:00 PM	30.27	0.00	0.20	20.50	0.00	
MGPW 1700	02/23/2025	04:21 PM	29.75	0.10	0.20	19.80	0.00	
MGPW 1700	03/09/2025	09:08 AM	29.93	0.00	0.30	20.50	-0.01	
MGPW 1700	03/24/2025		30.05	0.00	0.10	20.60	-0.07	
MGPW 1708	01/02/2025	12:00 PM	29.99	0.00	1.60	19.60	0.08	
MGPW 1708	01/15/2025	12:00 PM	30.28	0.00	2.40	19.20	0.10	
MGPW 1708	02/10/2025	12:00 PM	30.27	0.00	0.20	20.10	0.10	
MGPW 1708	02/23/2025	04:10 PM	29.75	0.10	0.10	20.40	0.00	
MGPW 1708	03/09/2025	09:18 AM	29.93	0.00	0.20	20.70	0.30	
MGPW 1708	03/24/2025		30.05	0.00	0.10	20.60	-1.87	
MGPW 1710S	01/02/2025	12:00 PM	29.99	0.00	0.80	20.00	0.00	
MGPW 1710S	01/15/2025	12:00 PM	30.28	0.00	0.08	19.90	-0.03	
MGPW 1710S	02/10/2025	12:00 PM	30.27	0.00	0.10	20.90	0.00	
MGPW 1710S	02/23/2025	04:10 PM	29.75	0.10	1.40	18.10	0.00	
MGPW 1710S	03/09/2025	09:18 AM	29.93	0.00	0.50	18.70	-0.05	
MGPW 1710S	03/24/2025		30.05	0.00	0.10	21.00	-0.12	
MGPW 1710D	01/02/2025	12:00 PM	29.99	0.00	1.10	19.90	1.00	
MGPW 1710D	01/15/2025	12:00 PM	30.28	0.00	0.90	19.80	-0.01	
MGPW 1710D	02/10/2025	12:00 PM	30.27	0.00	0.20	20.60	0.00	
MGPW 1710D	02/23/2025	04:10 PM	29.75	0.40	2.50	16.50	0.00	
MGPW 1710D	03/09/2025	09:18 AM	29.93	0.00	0.40	19.60	0.24	
MGPW 1710D	03/24/2025		30.05	0.00	0.10	20.80	-1.77	
MGPW 1714	01/02/2025	12:00 PM	29.99	0.00	0.70	20.20	1.20	
MGPW 1714	01/15/2025	12:00 PM	30.28	0.00	1.50	19.70	0.14	
MGPW 1714	02/10/2025	12:00 PM	30.27	0.00	0.20	20.20	0.10	
MGPW 1714	02/23/2025	04:10 PM	29.75	0.10	0.20	18.60	0.00	
MGPW 1714	03/09/2025	09:18 AM	29.93	0.00	0.10	20.90	0.09	
MGPW 1714	03/24/2025		30.05	0.00	0.10	21.00	-1.79	

CEDAR HILLS REGIONAL LANDFILL

West Perimeter Landfill Gas Migration Control Probes

Second Quarter 2025 Monitoring Data

Probe ID	Date	Time	Barometric Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Static Pressure in INWC	Comments
MGPW 1700	04/05/2025	12:30 PM	30.15	0.00	0.20	18.00	0.04	
MGPW 1700	04/18/2025	07:35 AM	30.05	0.00	1.70	21.00	-0.02	
MGPW 1700	05/07/2025	11:24 AM	29.91	0.00	0.10	20.00	-0.04	
MGPW 1700	05/22/2025	08:48 AM	29.94	0.00	1.80	20.10	0.00	
MGPW 1700	06/03/2025	12:28 PM	30.12	0.00	3.30	19.40	-0.02	
MGPW 1700	06/17/2025	09:45 AM	29.94	0.00	2.40	20.00	-0.05	
MGPW 1708	04/05/2025	12:42 PM	30.15	0.00	0.30	15.00	-1.11	
MGPW 1708	04/18/2025	07:27 AM	30.05	0.00	1.00	21.00	-1.06	
MGPW 1708	05/07/2025	11:29 AM	29.91	0.00	0.10	20.00	-0.94	
MGPW 1708	05/22/2025	09:06 AM	29.94	0.00	2.10	20.10	-0.57	
MGPW 1708	06/03/2025	01:18 PM	30.12	0.00	2.10	19.80	-0.42	
MGPW 1708	06/17/2025	09:33 AM	29.94	0.00	1.30	20.40	-0.07	
MGPW 1710S	04/05/2025	12:46 PM	30.15	0.00	0.10	18.60	-0.39	
MGPW 1710S	04/18/2025	07:21 AM	30.05	0.00	1.60	21.00	-0.03	
MGPW 1710S	05/07/2025	11:38 AM	29.91	0.00	0.10	20.20	-0.04	
MGPW 1710S	05/22/2025	09:14 AM	29.94	0.00	1.20	20.50	0.06	
MGPW 1710S	06/03/2025	12:56 PM	30.12	0.00	2.80	19.80	0.00	
MGPW 1710S	06/17/2025	09:22 AM	29.94	0.00	1.10	20.20	-0.07	
MGPW 1710D	04/05/2025	12:45 PM	30.15	0.00	0.10	18.20	-1.10	
MGPW 1710D	04/18/2025	07:23 AM	30.05	0.00	1.00	21.00	-1.01	
MGPW 1710D	05/07/2025	11:34 AM	29.91	0.00	0.10	20.10	-0.92	
MGPW 1710D	05/22/2025	09:18 AM	29.94	0.00	0.70	20.70	-0.57	
MGPW 1710D	06/03/2025	01:00 PM	30.12	0.00	1.80	21.00	-0.16	
MGPW 1710D	06/17/2025	09:25 AM	29.94	0.00	1.10	20.50	-0.78	
MGPW 1714	04/05/2025	12:49 PM	30.15	0.00	0.10	18.30	-1.08	
MGPW 1714	04/18/2025	07:17 AM	30.05	0.00	1.50	21.00	-1.00	
MGPW 1714	05/07/2025	11:41 AM	29.91	0.00	0.10	20.20	-0.91	
MGPW 1714	05/22/2025	09:36 AM	29.94	0.00	1.50	20.40	-0.64	
MGPW 1714	06/03/2025	12:48 PM	30.12	0.00	2.50	20.10	-0.48	
MGPW 1714	06/17/2025	09:11 AM	29.94	0.00	1.00	20.50	-0.79	

CEDAR HILLS REGIONAL LANDFILL

West Perimeter Landfill Gas Migration Control Probes

Third Quarter 2025 Monitoring Data

Probe ID	Date	Time	Barometric Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Static Pressure in INWC	Comments
MGPW 1700	07/05/2025	12:10 PM	30.10	0.00	0.10	20.40	-0.01	
MGPW 1700	07/16/2025	09:30 AM	29.84	0.00	0.00	19.50	-8.06	
MGPW 1700	08/07/2025	10:30 AM	30.03	0.00	0.00	21.00	-0.02	
MGPW 1700	08/21/2025	08:30 AM	30.11	0.00	0.10	20.70	-1.08	
MGPW 1700	09/02/2025		29.99	0.00	0.20	19.50	0.02	
MGPW 1700	09/22/2025		30.09	0.00	1.30	18.80	-0.01	
MGPW 1708	07/05/2025	11:41 AM	30.10	0.00	0.20	20.20	-1.78	
MGPW 1708	07/16/2025	09:35 AM	29.84	0.00	0.00	19.00	-0.08	
MGPW 1708	08/07/2025	10:25 AM	30.03	0.00	0.00	21.00	-1.63	
MGPW 1708	08/21/2025	07:45 AM	30.11	0.00	0.20	20.70	-1.01	
MGPW 1708	09/02/2025		29.98	0.00	0.20	20.30	-0.91	
MGPW 1708	09/22/2025		30.09	0.00	2.30	18.20	-1.57	
MGPW 1710S	07/05/2025	11:49 AM	30.10	0.00	0.10	20.20	-1.72	
MGPW 1710S	07/16/2025	09:47 AM	29.84	0.00	0.00	19.70	-0.10	
MGPW 1710S	08/07/2025	10:15 AM	30.03	0.00	0.00	21.00	-0.13	
MGPW 1710S	08/21/2025	07:55 AM	30.11	0.00	0.10	21.00	-0.04	
MGPW 1710S	09/02/2025		29.98	0.00	0.10	20.50	-0.13	
MGPW 1710S	09/22/2025		30.09	0.00	0.80	20.30	-0.08	
MGPW 1710D	07/05/2025	11:53 AM	30.10	0.00	0.10	20.40	-0.10	
MGPW 1710D	07/16/2025	09:42 AM	29.84	0.00	0.20	19.70	-0.44	
MGPW 1710D	08/07/2025	10:20 AM	30.03	0.00	0.00	21.00	-1.63	
MGPW 1710D	08/21/2025	08:10 AM	30.11	0.00	0.10	21.00	-0.96	
MGPW 1710D	09/02/2025		29.98	0.00	0.10	19.70	-0.89	
MGPW 1710D	09/22/2025		30.09	0.00	1.50	19.30	-1.45	
MGPW 1714	07/05/2025	11:58 AM	30.10	0.00	0.10	20.50	-1.70	
MGPW 1714	07/16/2025	09:51 AM	29.84	0.00	0.10	19.40	-0.20	
MGPW 1714	08/07/2025	10:10 AM	30.03	0.00	0.00	21.00	-1.56	
MGPW 1714	08/21/2025	08:15 AM	30.11	0.00	0.10	20.70	-1.08	
MGPW 1714	09/02/2025		29.98	0.00	0.10	20.50	-0.90	
MGPW 1714	09/22/2025		30.09	0.00	2.00	18.90	-1.52	

CEDAR HILLS REGIONAL LANDFILL

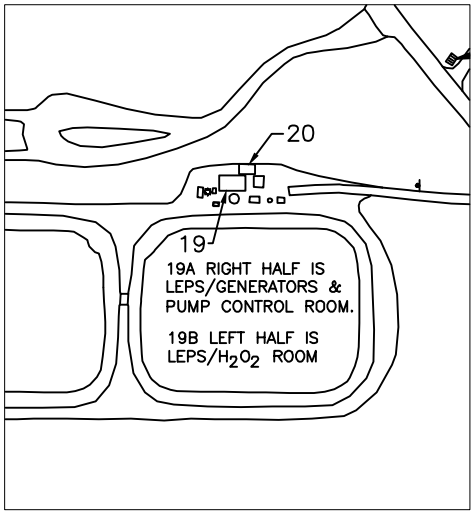
West Perimeter Landfill Gas Migration Control Probes

Fourth Quarter 2025 Monitoring Data

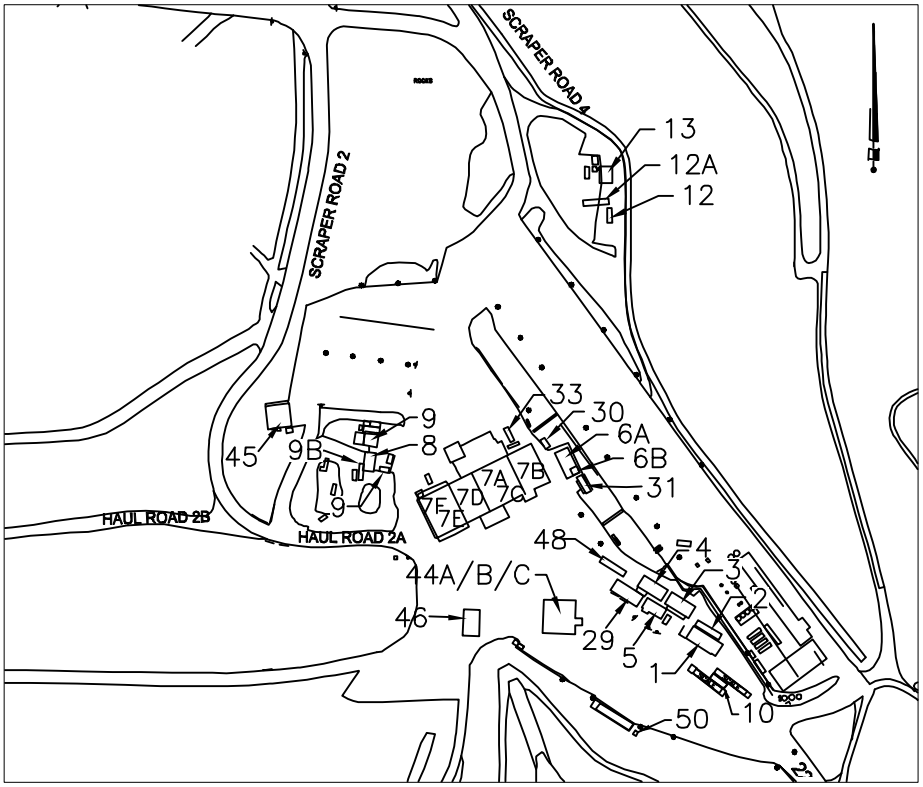
Probe ID	Date	Time	Barometric Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Static Pressure in INWC	Comments
MGPW 1700	10/21/2025	12:45 PM	30.04	0.00	1.00	19.60	-0.01	
MGPW 1700	11/02/2025	12:30 PM	30.20	0.00	2.20	21.00	0.00	
MGPW 1700	11/16/2025	12:53 PM	29.55	0.00	0.20	21.00	0.00	
MGPW 1700	12/05/2025	10:26 AM	29.87	0.00	0.80	20.80	0.00	
MGPW 1700	12/19/2025	09:30 AM	29.63	0.10	0.20	20.90	-0.22	
MGPW 1708	10/21/2025	12:48 PM	30.04	0.00	0.70	20.20	0.24	
MGPW 1708	11/02/2015	12:45 PM	30.20	0.00	3.30	20.10	-3.18	
MGPW 1708	11/16/2025	01:30 PM	29.55	0.00	0.10	21.00	-0.42	
MGPW 1708	12/05/2025	10:11 AM	29.87	0.00	1.30	21.00	1.99	
MGPW 1708	12/19/2025	09:25 AM	29.63	0.00	0.10	20.90	-2.22	
MGPW 1710S	10/21/2025	12:54 PM	30.04	0.00	0.50	20.10	0.22	
MGPW 1710S	11/02/2025	12:49 PM	30.20	0.00	1.70	20.50	-3.02	
MGPW 1710S	11/16/2025	01:19 PM	29.55	0.00	0.20	21.00	-0.20	
MGPW 1710S	12/05/2025	10:15 AM	29.87	0.00	0.70	20.70	1.84	
MGPW 1710S	12/19/2025	09:04 AM	29.63	0.00	0.10	20.80	-2.09	
MGPW 1710D	10/21/2025	12:57 PM	30.04	0.00	0.40	20.10	0.06	
MGPW 1710D	11/02/2025	12:51 PM	30.20	0.00	1.00	20.60	-0.25	
MGPW 1710D	11/16/2025	01:17 PM	29.55	0.00	6.40	10.10	-0.05	
MGPW 1710D	12/05/2025	10:17 AM	29.87	0.00	3.30	14.10	0.13	
MGPW 1710D	12/19/2025	09:18 AM	29.63	0.00	0.20	21.00	-0.48	
MGPW 1714	10/21/2025	01:01 PM	30.04	0.00	0.40	20.20	0.22	
MGPW 1714	11/02/2015	12:56 PM	30.20	0.00	1.70	20.30	-2.87	
MGPW 1714	11/16/2025	01:12 PM	29.55	0.00	0.20	21.00	-0.18	
MGPW 1714	12/05/2025	10:21 AM	29.87	0.00	0.90	20.70	1.70	
MGPW 1714	12/19/2025	08:58 AM	29.63	0.00	0.60	21.00	-1.96	

On-Site Building Monitoring

Aeration Ponds



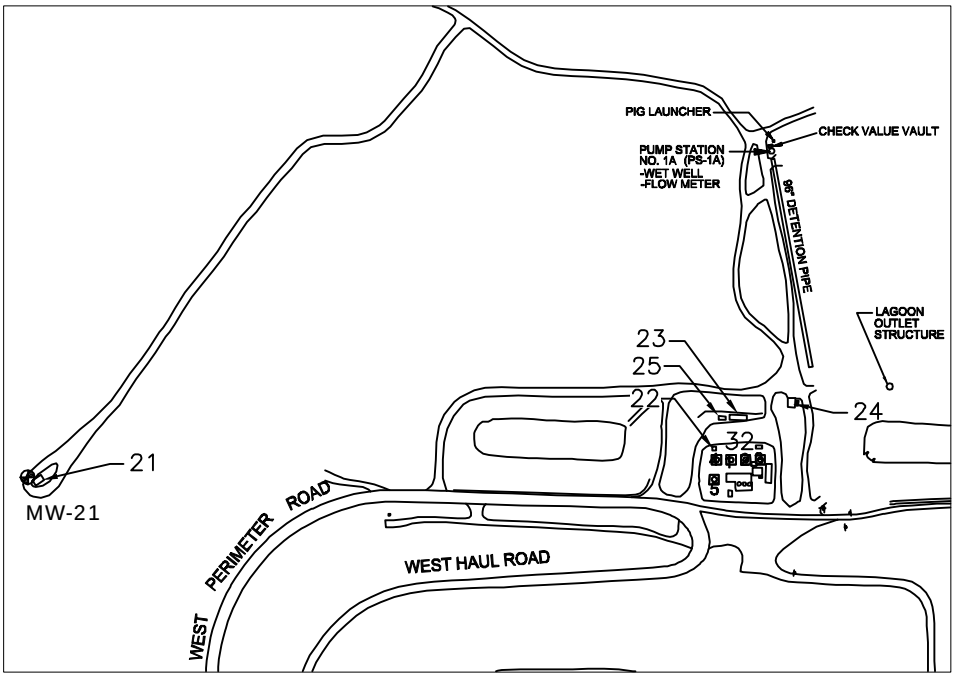
Shop and Office Buildings



BUILDING NO.	EO Description
1	Front Office
2	Conference Room
3	Vacant (Old Payroll Trailer)
4	Engineering Trailer
5	Lunch Room Trailer
6A	Dry Storage
6B	Electrician Office
7	Maintenance Shop
7A	Shop Office
7B	Stores–Shipping/Receiving
7C	Trailer Bay and Pit Area
7D	Tire Shop and Trailer Bay
7E	East Weld Shop
7F	West Weld Shop
8	Carpenter's Shop
9	Wastewater Shed
9B	Carpenter Storage
10	Scale House
11	New Eqpt. Operator's Trailer
12	EQ. Operator's Trailer (Old)
13	WW Compressor
16	Generator (Not Shown)
19	LEPS (P.S. #5)
19A	LEPS Pump Control Room
19B	LEPS/H_2O_2 room
20	LEPS, Elec Panels
21	Storage(Old PS1)
22	Storage/N.Flare
23	LFGAS Office
24	NE Generator Bldg.
25	Storage BLDG. @ N.F.S.
29	OPS Administration Office
30	Women Brk Rm.
31	Landfill Leads/Accts Payable
32	North Flare Station
33	SPOC trailer
44A	Truck Wash West Restroom
44B	Truck Wash East Restroom
44C	Pressure Wash Room
45	Heavy Equipment Canopy
46	Fuel Island
48	Operations Planning
49	CCG Faster (Not Shown)
50	Chlorine Shed

CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

North Flare Station



Source: KCSWD, February 2012

King County

Landfill Gas Structure Monitoring Location

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: February 2012	PROJECT NO.
DESIGNED BY:	
DRAWN BY:	FIGURE NO.
REVISED BY: -	

DNRP / KCSWD
CEDAR HILLS LANDFILL
BUILDING MONITORING

FIRST QUARTER
BUILDING MONITORING

King County	INSTRUMENT: Place check by instrument used		WEATHER:	DATE: 02/02/25
	Foxboro TVA 2020		Snow	TECH: SB
	SEM 5000	X		

ENVIS ID	BLDG #	DESCRIPTION	CH_4 (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME
GOC-	1	FRONT OFFICE	2.2	12:11 AM	29.81	11:52:00 PM
GCR-	2	CONF ROOM	2.4	12:12 AM		
GAO-	3	PAYROLL OFFICE	2.3	12:14 AM		
GEO-	4	ENGR. OFFICE	1.9	12:18 AM		
GLRC-	5	LUNCHROOM	2	12:16 AM		
GSPC		SPOC	2.3	12:39 AM		
GELO- A	6A	DRY STORAGE	2.1	12:42 AM		
GELO- B	6B	ELECTRICIAN OFFICE	2	12:42 AM		
GAP-		ACCOUNT PAYABLE	**1.9**	**12:44 AM**		
GSO- A	7A	SHOP OFFICE	2.1	12:29 AM		
GPR- B	7B	PARTS ROOM	1.9	12:28 AM		
GMS- C	7C	SHOP PIT AREA/BAY	2.4	12:32 AM		
GTB- D	7D	SHOP TIRE BAY	1.8	12:27 AM		
GEW- E	7E	EAST WELD SHOP	2.3	12:31 AM		
GWW- F	7F	WEST WELD SHOP	2.4	12:33 AM		
GCS-	8	CARPENTER'S	2.5	12:34 AM		
GSS-	9	WASTEWATER	2.5	12:36 AM		
GSS- B	9B	CARPENTER/STORAGE				
GSH-	10	SCALEHOUSE	2.2	12:07 AM		
GB13-	13	WW COMPRESSOR	2	12:48 AM		
GB16-	16	GENERATOR	2.2	12:53 AM		
GB19-	19	LEPS (P.S.# 5)	2.2	12:56 AM		
GB19- B	19B	LEPS/H_2O_2 ROOM	**2.5**	**12:57 AM**		
GB20-	20	LEPS ELEC PANALS	2.2	12:55 AM		
GB21-	21	STORAGE(OLD PS 1)	**2.3**	**11:52 PM**		
GB22-	22	STORAGE/N FLARE	**2.4**	**11:59 PM**		
GB23-	23	LFGAS	2.5	12:00 AM		
GB24-	24	NE GENERATOR BLDG	2.3	11:57 PM		
GBWW-	30	WOMEN BRK RM	2.1	12:41 AM		
GPWT-	PW	PRESSURE WASH RM	2.2	12:24 AM		
GBRR-	RR	TRUCKWASH RR W	1.9	12:25 AM		
GBSS-	SS	TRUCKWASH RR E	2.4	12:22 AM		
GBZZ-	29	MANAGERS TRAILER	2.3	12:19 AM		
GBPT-		CCG FASTER				
GCLS-		CHLORINE SHED	2	12:08 AM		

CEDAR HILLS REGIONAL LANDFILL
SECOND QUARTER
BUILDING MONITORING

King County		INSTRUMENT: Place check by instrument used :			WEATHER:		DATE:	04/10/25
			Foxboro TVA 2020		CLEAR		TECH:	DNS
			SEM 5000	X			Time:	1:45:00 AM

ENVIS ID		BLDG #	DESCRIPTION	CH_4 (ppm)	BAR PRESS (in. Hg)	Time	REMARKS
GOC-		1	FRONT OFFICE	**2.2**	30.08		
GCR-		2	CONF ROOM	**2.2**	30.08		
GAO-		3	PAYROLL OFFICE	**2.2**	30.08		
GEO-		4	ENGR. OFFICE	**2.2**	30.08		
GLRC-		5	LUNCHROOM	**2.2**	30.08		
GSPC			SPOC	**9.8**	30.08		
GELO-	A	6A	DRY STORAGE	**9.8**	30.08		
GELO-	B	6B	ELECTRICIAN OFFICE	**9.8**	30.08		
GAP-			ACCOUNT PAYABLE	**9.8**	30.08		
GSO-	A	7A	SHOP OFFICE	**9.8**	30.08		
GPR-	B	7B	PARTS ROOM	**9.8**	30.08		
GMS-	C	7C	SHOP PIT AREA/BAY	**9.8**	30.08		
GTB-	D	7D	SHOP TIRE BAY	**9.8**	30.08		
GEW-	E	7E	EAST WELD SHOP	**9.8**	30.08		
GWW-	F	7F	WEST WELD SHOP	**9.8**	30.08		
GCS-		8	CARPENTER'S	**15.0**	30.08		
GSS-		9	WASTEWATER	**10.0**	30.08		
GSS-	B	9B	~~CARPENTER/STORAGE~~				BLDG REMOVED
GSH-		10	SCALEHOUSE	**8.9**	30.08		
GB13-		13	WW COMPRESSOR	**2.8**	30.08		
GB16-		16	GENERATOR	**2.4**	30.08		
GB19-		19	LEPS (P.S.# 5)	**45.0**	30.08		
GB19-	B	19B	~~LEPS/H_2 O_2 ROOM~~				BLDG REMOVED
GB20-		20	LEPS ELEC PANALS	**38.0**	30.08		
GB21-		21	STORAGE(OLD PS 1)	**N/A**	30.08		HAZARDOUS AREA
GB22-		22	STORAGE/N FLARE	**2.3**	30.08		
GB23-		23	LFGAS	**2.3**	30.08		
GB24-		24	NE GENERATOR BLDG	**2.8**	30.08		
GBWW-		30	WOMEN BRK RM	**2.2**	30.08		
GPWT-		PW	PRESSURE WASH RM	**2.2**	30.08		
GBRR-		RR	TRUCKWASH RR W	**2.2**	30.08		
GBSS-		SS	TRUCKWASH RR E	**2.2**	30.08		
GBZZ-		29	MANAGERS TRAILER	**2.2**	30.08		
GBPT-			CCG FASTER	**2.2**	30.08		
GCLS-			CHLORINE SHED	**2.2**	30.1		

CEDAR HILLS REGIONAL LANDFILL
THIRD QUARTER
BUILDING MONITORING

King County	INSTRUMENT: Place check by instrument used :		WEATHER:	DATE:	07/07/25
	Foxboro TVA 2020		CLEAR SKIES	TECH:	DNS
	SEM 5000	X		Time:	8:40:00 PM

ENVIS ID		BLDG #	DESCRIPTION	CH_4 (ppm)	BAR PRESS (in. Hg)	Time	REMARKS
GOC-		1	FRONT OFFICE	**3.5**	29.86		
GCR-		2	CONF ROOM	**3.5**	29.86		
GAO-		3	PAYROLL OFFICE	**3.5**	29.86		
GEO-		4	ENGR. OFFICE	**3.5**	29.86		
GLRC-		5	LUNCHROOM	**3.5**	29.86		
GSPC			SPOC	**3.5**	29.86		
GELO-	A	6A	DRY STORAGE	**2.1**	29.86		
GELO-	B	6B	ELECTRICIAN OFFICE	**2.1**	29.86		
GAP-			ACCOUNT PAYABLE	**2.1**	29.86		
GSO-	A	7A	SHOP OFFICE	**2.1**	29.86		
GPR-	B	7B	PARTS ROOM	**2.1**	29.86		
GMS-	C	7C	SHOP PIT AREA/BAY	**2.1**	29.86		
GTB-	D	7D	SHOP TIRE BAY	**2.1**	29.86		
GEW-	E	7E	EAST WELD SHOP	**2.1**	29.86		
GWW-	F	7F	WEST WELD SHOP	**2.1**	29.86		
GCS-		8	CARPENTER'S	**2.1**	29.86		
GSS-		9	WASTEWATER	**2.1**	29.86		
GSS-	B	9B	~~CARPENTER/STORAGE~~				BLDG REMOVED
GSH-		10	SCALEHOUSE	**2.1**	29.86		
GB13-		13	WW COMPRESSOR	**2.1**	29.86		
GB16-		16	GENERATOR	**94.5**	29.86		DOWN WIND OF ACTIVE
GB19-		19	LEPS (P.S.# 5)	**2.5**	29.86		
GB19-	B	19B	~~LEPS/H_2 O_2 ROOM~~				BLDG REMOVED
GB20-		20	LEPS ELEC PANALS	**2.5**	29.86		
GB21-		21	STORAGE(OLD PS 1)	**N/A**	29.86		HAZARDOUS AREA
GB22-		22	STORAGE/N FLARE	**1.9**	29.86		
GB23-		23	LFGAS	**1.9**	29.86		
GB24-		24	NE GENERATOR BLDG	**2.1**	29.86		
GBWW-		30	WOMEN BRK RM	**3.5**	29.86		
GPWT-		PW	PRESSURE WASH RM	**2.1**	29.86		
GBRR-		RR	TRUCKWASH RR W	**2.1**	29.86		
GBSS-		SS	TRUCKWASH RR E	**2.1**	29.86		
GBZZ-		29	MANAGERS TRAILER	**2.1**	29.86		
GBPT-			CCG FASTER	**2.1**	29.86		
GCLS-			CHLORINE SHED	**2.1**	29.86		

CEDAR HILLS REGIONAL LANDFILL
FORTH QUARTER
BUILDING MONITORING

King County	INSTRUMENT: Place check by instrument used :		WEATHER:	DATE:	10/17/25
	Foxboro TVA 2020		CLEAR	TECH:	RH, JS
	SEM 5000	X		Time:	1:45:00 AM

ENVIS ID		BLDG #	DESCRIPTION	CH_4 (ppm)	BAR PRESS (in. Hg)	Time	REMARKS
GOC-		1	FRONT OFFICE	**4.7**	30.02	10:24:00 PM	
GCR-		2	CONF ROOM	**4.5**	30.02	10:32:00 PM	
GAO-		3	PAYROLL OFFICE	**12.3**	30.02	10:28:00 PM	
GEO-		4	ENGR. OFFICE	**7.3**	30.02	10:30:00 PM	
GLRC-		5	~~LUNCHROOM~~				BLDG REMOVED
GSPC			SPOC	**66.5**	30.02	10:49:00 PM	
GELO-	A	6A	DRY STORAGE	**59.5**	30.02	10:52:00 PM	
GELO-	B	6B	ELECTRICIAN OFFICE	**50.3**	30.02	10:52:00 PM	
GAP-			ACCOUNT PAYABLE	**56.3**	30.02	10:54:00 PM	
GSO-	A	7A	SHOP OFFICE	**41.3**	30.02	10:47:00 PM	
GPR-	B	7B	PARTS ROOM	**28.1**	30.02	10:43:00 PM	
GMS-	C	7C	SHOP PIT AREA/BAY	**25.2**	30.02	10:45:00 PM	
GTB-	D	7D	SHOP TIRE BAY	**19.8**	30.02	10:46:00 PM	
GEW-	E	7E	EAST WELD SHOP	**22.7**	30.02	10:47:00 PM	
GWW-	F	7F	WEST WELD SHOP	**13.2**	30.02	10:48:00 PM	
GCS-		8	~~CARPENTER'S~~				BLDG REMOVED
GSS-		9	~~WASTEWATER~~				BLDG REMOVED
GSS-	B	9B	~~CARPENTER/STORAGE~~				BLDG REMOVED
GSH-		10	SCALEHOUSE	**5.3**	30.02	10:22:00 PM	
GB13-		13	WW COMPRESSOR	**15.5**	30.02	11:11:00 PM	
GB16-		16	GENERATOR	**52.2**	30.02	10:58:00 PM	
GB19-		19	LEPS (P.S.# 5)	**38.4**	30.02	11:02:00 PM	
GB19-	B	19B	~~LEPS/H_2 O_2 ROOM~~			11:03:00 PM	BLDG REMOVED
GB20-		20	LEPS ELEC PANALS	**38.9**	30.02	11:01:00 PM	
GB21-		21	STORAGE(OLD PS 1)	**2.6**	30.02	10:06:00 PM	
GB22-		22	STORAGE/N FLARE	**2.6**	30.02	10:13:00 PM	
GB23-		23	LFGAS	**2.7**	30.02	9:57:00 PM	
GB24-		24	NE GENERATOR BLDG	**2.7**	30.02	10:00:00 PM	
GBWW-		30	WOMEN BRK RM	**72.4**	30.02	10:50:00 PM	
GPWT-		PW	PRESSURE WASH RM	**25.4**	30.02	10:35:00 PM	
GBRR-		RR	TRUCKWASH RR W	**23.6**	30.02	10:37:00 PM	
GBSS-		SS	TRUCKWASH RR E	**13.7**	30.02	10:36:00 PM	
GBZZ-		29	MANAGERS TRAILER	**11.2**	30.02	10:31:00 PM	
GBPT-			CCG FASTER	**13.0**	30.02	10:32:00 PM	
GCLS-			CHLORINE SHED	**9.7**	30.0	10:22:00 PM	

Passage Point Monitoring

2025 PASSAGE POINT MONTHLY METHANE MONITORING

Survey Location	Room ID	Room Description	Survey Date 1-14-2025 Survey Time: 9:00 to 10:00 Weather = Foggy 35F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Jan-2025	Probable Source	Survey Date 2-11-2025 Survey Time: 9:00 to 10:00 Weather = Sunny 32F Inspectors: PJ/SP Survey Instrument: IR Heathe CH4 (ppm) Feb-2025	Probable Source	Survey Date 3-11-2025 Survey Time:9:00 to 10:00 Weather = Cloudy 44 F Inspectors: PJ/SP/BB Survey Instrument: SEM 5000 CH4 (ppm) Mar-2025	Probable Source	Survey Date 04-11-2025 Survey Time: 9:00 to 10:00 Weather = Cloudy 42 F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Apr-2025	Probable Source	Survey Date 05-14-2025 Survey Time: 9:00 to 10:00 Weather = Cloudy 49 F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) May-2025	Probable Source	Survey Date 6-10-2025 Survey Time: 9:00 to 10:00 Weather = Sunny 63F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Jun-2025	Probable Source
Administration Building	GPPA12_SB	STAFF BREAK (A005)	0		0		0		0		0		0	
	GPPA12_SR	STAFF/RESTROOM (A006/7)	0		0		0		0		0		0	
	GPPA12_JO	JAN. OFFICE (A004)	0		0		0		0		0		0	
	GPPA12_JO2	JAN. OFFICE 2 (A003)	0		0		0		0		0		0	
	GPPA12_TS	TRANSPORT STOR (A008)	0		0		0		0		0		0	
	GPPA12_JS	JANITOR SUPPLY (A009)	0		0		0		0		0		0	
	GPPA12_FS	FILES/STORAGE (A010)	0		0		0		0		0		0	
	GPPA12_EP	ELECTRIC PANEL (A013)	0		0		0		0		0		0	
	GPPA12_S	SECURITY (A012)	0		0		0		0		0		0	
	GPPA12_R	REPAIR SHOP (A011)	0		1		0		0		0		0	
Building B	GPPB12_U1	UNIT 1 (B001)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPB12_U2	UNIT 2 (BOO2)	Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B	
	GPPB12_U3	UNIT 3 (B003)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPB12_U4	UNIT 4 (B004)												
Building C	GPPC12_U1	UNIT 1 (C101)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPC12_U2	UNIT 2 (C102)	Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C	
	GPPC12_U3	UNIT 3 (C103)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPC12_U4	UNIT 4 (C104)												
	GPPC12_U6	UNIT 6 (C106)												
	GPPC12_U5	UNIT 5 (C105)												
	GPPC12_U7	UNIT 7 (C107)												
	GPPC12_U8	UNIT 8 (C108)												
	GPPC12_U9	UNIT 9 (C109)												
	GPPC12_U10	MECHANICAL ROOM (C110)	0		2		0		0		0		0	
Building D	GPPD12_13	STAFF LOUNGE (D013)	0		0		0		0		0		0	
	GPPD12_12	TEEN STORAGE (D012)	0		0		0		0		0		0	
	GPPD12_11	TEEN GROUP (D011)	1		0		0		0		0		0	
	GPPD12_14	LOUNGE STORAGE (D014)	0		0		0		0		0		0	
	GPPD12_09	SUPPORT GRP (D009)	0		0		0		0		0		0	
	GPPD12_08	COUNSELING (D008)	0		0		0		0		0		0	
	GPPD12_10	WAITING ROOM (D010)	0		0		0		0		0		0	
	GPPD12_28	MEN'S ROOM (D028)	0		0		0		0		0		0	
	GPPD12_27	WOMEN'S ROOM (D027)	0		0		0		0		0		0	
	GPPD12_17	ADA EXAM (D017)	0		0		0		0		0		0	
	GPPD12_18	EXAM (D018)	0		0		0		0		0		0	
	GPPD12_19	MEETING RM (D019)	0		0		0		0		0		0	
	GPPD12_21	COUNSELING (D021)	0		0		0		0		0		0	
	GPPD12_20	WELLNESS WAITING (D020)	0		0		0		0		0		0	
	GPPD12_23	CONF ROOM STORAGE (D023)	0		0		0		0		0		0	
	GPPD12_22	CONF ROOM (D022)	0		0		0		0		0		0	
	GPPD12_24	MECH/ELEC (D024)	0		0		0		0		0		0	
	GPPD12_26	OFFICE/MTG ROOM (D026)	0		0		0		0		0		0	
	GPPD12_29	OFFICE (D029)	0		0		0		0		0		0	
	GPPD12_30	OFFICE (D030)	0		0		0		0		0		0	
	GPPD12_31	CASE MGR OFFICE (D031)	0		0		0		0		0		0	
	GPPD12_05	TEEN LOUNGE (D005)	0		0		0		0		0		0	
	GPPD12_06	STORE (D006)	0		0		0		0		0		0	
	GPPD12_07	COMPUTER (D007)	0		0		0		0		0		0	
	GPPD12_03	CHILD PLAY (D003)	0		1		0		0		0		0	
	GPPD12_02	LAUNDRY (D002)	0		0		0		0		0		0	
Building G	GPPG12_U1	UNIT 1 (G001)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPG12_U2	UNIT 2 (G002)	Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G	
	GPPG12_U3	UNIT 3 (G003)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPG12_U4	UNIT 4 (G004)												
Building E	GPPE12_BR	BOILER ROOM (E104)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPE12_U3	UNIT 3 (E103)	Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E	
	GPPE12_U2	UNIT 2 (E102)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPE12_U1	UNIT 1 (E101)												

2025 PASSAGE POINT MONTHLY METHANE MONITORING

Survey Location	Room ID	Room Description	Survey Date 7-8-2025 Survey Time: 9:00 to 10:00 Weather = Sun 70F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Jul-2025	Probable Source	Survey Date 8-12-2025 Survey Time: 9:00 to 10:00 Weather = Sunny 75F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Aug-2025	Probable Source	Survey Date 09-09-2025 Survey Time: 9:00 to 10:00 Weather = Overcast 58F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Sep-2025	Probable Source	Survey Date 10-08-2025 Survey Time: 9:00 to 10:00 Weather = Sun 58F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Oct-2025	Probable Source	Survey Date 11-18-2025 Survey Time: 9:00 to 10:00 Weather = cloudy 43F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Nov-2025	Probable Source	Survey Date 12-09-2025 Survey Time: 9:00 to 10:00 Weather = Cloudy 46F Inspectors: PJ Survey Instrument: IR Heathe CH4 (ppm) Dec-2025	Probable Source
Administration Building	GPPA12_SB	STAFF BREAK (A005)	0		1		0		0		0		0	
	GPPA12_SR	STAFF/RESTROOM (A006/7)	0		0		0		0		0		0	
	GPPA12_JO	JAN. OFFICE (A004)	0		0		0		0		0		0	
	GPPA12_JO2	JAN. OFFICE 2 (A003)	0		0		0		0		0		0	
	GPPA12_TS	TRANSPORT STOR (A008)	0		0		0		0		0		0	
	GPPA12_JS	JANITOR SUPPLY (A009)	0		0		0		0		0		0	
	GPPA12_FS	FILES/STORAGE (A010)	0		0		0		0		0		0	
	GPPA12_EP	ELECTRIC PANEL (A013)	0		0		0		0		0		0	
	GPPA12_S	SECURITY (A012)	0		0		0		0		0		0	
	GPPA12_R	REPAIR SHOP (A011)	0		0		0		0		0		0	
Building B	GPPB12_U1	UNIT 1 (B001)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPB12_U2	UNIT 2 (BOO2)	Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B		Tested Around Exterior of bldg B	
	GPPB12_U3	UNIT 3 (B003)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPB12_U4	UNIT 4 (B004)												
Building C	GPPC12_U1	UNIT 1 (C101)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPC12_U2	UNIT 2 (C102)	Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C		Tested Around Exterior of bldg C	
	GPPC12_U3	UNIT 3 (C103)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPC12_U4	UNIT 4 (C104)												
	GPPC12_U6	UNIT 6 (C106)												
	GPPC12_U5	UNIT 5 (C105)												
	GPPC12_U7	UNIT 7 (C107)												
	GPPC12_U8	UNIT 8 (C108)												
	GPPC12_U9	UNIT 9 (C109)												
	GPPC12_U10	MECHANICAL ROOM (C110)	0		0		0		0		0		0	
Building D	GPPD12_13	STAFF LOUNGE (D013)	0		0		0		0		0		0	
	GPPD12_12	TEEN STORAGE (D012)	0		0		0		0		0		0	
	GPPD12_11	TEEN GROUP (D011)	0		0		0		0		0		0	
	GPPD12_14	LOUNGE STORAGE (D014)	0		0		0		0		0		0	
	GPPD12_09	SUPPORT GRP (D009)	1		0		0		0		0		0	
	GPPD12_08	COUNSELING (D008)	0		0		0		0		0		0	
	GPPD12_10	WAITING ROOM (D010)	0		0		0		0		0		0	
	GPPD12_28	MEN'S ROOM (D028)	0		0		0		0		0		0	
	GPPD12_27	WOMEN'S ROOM (D027)	0		0		0		0		0		0	
	GPPD12_17	ADA EXAM (D017)	0		0		0		0		0		0	
	GPPD12_18	EXAM (D018)	0		0		0		0		0		0	
	GPPD12_19	MEETING RM (D019)	0		0		0		0		0		0	
	GPPD12_21	COUNSELING (D021)	0		0		0		0		0		0	
	GPPD12_20	WELLNESS WAITING (D020)	0		1		0		0		0		0	
	GPPD12_23	CONF ROOM STORAGE (D023)	0		0		0		0		0		0	
	GPPD12_22	CONF ROOM (D022)	0		0		0		0		0		0	
	GPPD12_24	MECH/ELEC (D024)	0		0		0		0		0		0	
	GPPD12_26	OFFICE/MTG ROOM (D026)	0		0		0		0		0		0	
	GPPD12_29	OFFICE (D029)	0		0		0		0		0		0	
	GPPD12_30	OFFICE (D030)	0		0		0		0		0		0	
	GPPD12_31	CASE MGR OFFICE (D031)	0		0		0		0		0		0	
	GPPD12_05	TEEN LOUNGE (D005)	0		0		0		0		0		0	
	GPPD12_06	STORE (D006)	0		0		0		0		0		0	
	GPPD12_07	COMPUTER (D007)	0		0		0		1		0		0	
	GPPD12_03	CHILD PLAY (D003)	0		0		0		0		0		0	
	GPPD12_02	LAUNDRY (D002)	0		0		0		0		0		0	
Building G	GPPG12_U1	UNIT 1 (G001)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPG12_U2	UNIT 2 (G002)	Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G		Tested Around Exterior of bldg G	
	GPPG12_U3	UNIT 3 (G003)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPG12_U4	UNIT 4 (G004)												
Building E	GPPE12_BR	BOILER ROOM (E104)	Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus		Due to Covid-19 Virus	
	GPPE12_U3	UNIT 3 (E103)	Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E		Tested Around Exterior of bldg E	
	GPPE12_U2	UNIT 2 (E102)	0-PPM		0-PPM		0-PPM		0-PPM		0-PPM		0-PPM	
	GPPE12_U1	UNIT 1 (E101)												

Attachment H

Stormwater Reports

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 01/01/2025 - 03/31/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
5-F	**1/31/25**	8.14	7.25	no	3.2	2.2	68	13.3	10.6	4.55	<1.750	13.6
Minimum			7.25									
			BM: >= 5.0 (RO)									
Average		8.14			3.2	2.2	68	13.3	10.6	4.55	<1.750	13.6
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.25									
			BM: <= 9.0 (RO)									

Reporting Codes Used: B - Below Detection Limit/No Detection

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 01/01/2025 - 03/31/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
5-F	**1/31/25**	2.53	7.18	no	6.79	21.4	98.1	137	8.09	12	<2.030	5.85
Minimum			7.18									
			BM: >= 5.0 (RO)									
Average		2.53			6.79	21.4	98.1	137	8.09	12	<2.030	5.85
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.18									
			BM: <= 9.0 (RO)									

Reporting Codes Used: B - Below Detection Limit/No Detection

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 01/01/2025 - 03/31/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
5-F	**1/31/25**	30.2	7.43	no	4.51	10.7	45.4	22.9	1.56	9.17	<1.750	1.44
8-W	**2/19/25**	18.4										
Minimum			7.43									
			BM: >= 5.0 (RO)									
Average		24.3			4.51	10.7	45.4	22.9	1.56	9.17	<1.750	1.44
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.43									
			BM: <= 9.0 (RO)									

Reporting Codes Used: B - Below Detection Limit/No Detection

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 — **Signature**

5/14/2025 1:32:16 PM — **Date**

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 04/01/2025 - 06/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
8-M	**5/19/25**	2.74	6.95	no	3.29	1.7	65.3	20.3	11.8	5.03	<4	10.5
Minimum			6.95									
			BM: >= 5.0 (RO)									
Average		2.74			3.29	1.7	65.3	20.3	11.8	5.03	<4	10.5
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			6.95									
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, C - No Discharge

Overall DMR Notes/Comment

There was no discharge from monitoring point SL3 during 2Q 2025.

Outfall: GS1 - Discharge to unnamed stream (wetland)

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
GS1	Ammonia Total Micrograms/L (ug/L)	5/19/2025	0.0461	Units are listed in DMR as ug/L, but they should be mg/L.

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol [3-Cyclohexene-1-methanol, alpha., alpha.,4-trimethyl-] Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
8-M	**5/19/25**	<2	1.5	0.0461*	<0.49	<9.7	<0.49	<0.49
Minimum								
Average								
Maximum								
Month 1 Average		<2	1.5	0.0461	<0.49	<9.7	<0.49	<0.49
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average		<2	1.5	0.0461	<0.49	<9.7	<0.49	<0.49
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average		<2	1.5	0.0461	<0.49	<9.7	<0.49	<0.49
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 04/01/2025 - 06/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
8-M	**5/19/25**	A	A*	no	A	A*	61.3	80.4	8.3	6.37	<4.1	5.58
13-T	**6/24/25**		7.52			29.5						
Minimum			7.52									
			BM: >= 5.0 (RO)									
Average		A			A	29.5	61.3	80.4	8.3	6.37	<4.1	5.58
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			7.52									
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, C - No Discharge

Overall DMR Notes/Comment

There was no discharge from monitoring point SL3 during 2Q 2025.

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

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
N4	Ammonia Total Micrograms/L (ug/L)	5/19/2025	0.0037	Units are listed in DMR as ug/L, but they should be mg/L.
N4	pH (Hydrogen Ion) Standard Units	5/19/2025	A|A	This parameter had consistent benchmark attainment, but we later realized we still had an effluent limit and had to sample.
N4	Zinc Total Micrograms/L (ug/L)	5/19/2025	A|A	This parameter had consistent benchmark attainment, but we later realized we still had an effluent limit and had to sample.

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
8-M	**5/19/25**	<2	1.4	0.0037*	<0.5	<10	<0.5	<0.5
13-T	**6/24/25**							
Minimum								
Average								
Maximum								
Month 1 Average		<2	1.4	0.0037	<0.5	<10	<0.5	<0.5
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average		<2	1.4	0.0037	<0.5	<10	<0.5	<0.5
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average		<2	1.4	0.0037	<0.5	<10	<0.5	<0.5
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 04/01/2025 - 06/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
8-M	**5/19/25**	C	C	C	C	C	C	C	C	C	C	C
9-Th	**5/29/25**	C	C	C	C	C	C	C	C	C	C	C
Minimum			C									
			BM: >= 5.0 (RO)									
Average		C			C	C	C	C	C	C	C	C
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			C									
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, C - No Discharge

Overall DMR Notes/Comment

There was no discharge from monitoring point SL3 during 2Q 2025.

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
Signature

8/15/2025 3:50:59 PM
Date

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol [3-Cyclohexene-1-methanol, alpha., alpha.,trimethyl-] Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
8-M	**5/19/25**	C	C	C	C	C	C	C
9-Th	**5/29/25**	C	C	C	C	C	C	C
Minimum								
Average								
Maximum								
Month 1 Average		C	C	C	C	C	C	C
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average		C	C	C	C	C	C	C
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average		C	C	C	C	C	C	C
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 07/01/2025 - 09/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
Minimum												
			BM: >= 5.0 (RO)									
Average												
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum												
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

No stormwater discharged from Cedar Hills Regional Landfill during Q3 2025.

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol [3-Cyclohexene-1-methanol, alpha., alpha.,trimethyl-] Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
Minimum								
Average								
Maximum								
Month 1 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 07/01/2025 - 09/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
Minimum												
			BM: >= 5.0 (RO)									
Average												
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum												
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

No stormwater discharged from Cedar Hills Regional Landfill during Q3 2025.

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
Minimum								
Average								
Maximum								
Month 1 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

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

Permit Number: WAR000756 **Permittee:** CEDAR HILLS REGIONAL LANDFILL

Facility County: King **Receiving Waterbody:** Unnamed stream

Monitoring Period: 07/01/2025 - 09/30/2025 **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	PFOA Nanograms/L (ng/L) Quarterly Grab	PFOS Nanograms/L (ng/L) Quarterly Grab	Perfluorohexanesulfonic acid (PFHxS) Nanograms/L (ng/L) Quarterly Grab	PFNA Nanograms/L (ng/L) Quarterly Grab	HFPO-DA Nanograms/L (ng/L) Quarterly Grab	PFBS Nanograms/L (ng/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Western WA - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit	ISGP Waste Management & Remediation Services - 2025 Permit
Minimum												
			BM: >= 5.0 (RO)									
Average												
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum												
			BM: <= 9.0 (RO)									
Month 1 Average												
Month 2 Average												
Month 3 Average												

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

No stormwater discharged from Cedar Hills Regional Landfill during Q3 2025.

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 — **Signature**

11/13/2025 2:00:25 PM — **Date**

Week	Monitoring Point	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Micrograms/L (ug/L) Quarterly Grab	4-methylphenol (p-cresol) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	Alpha-terpineol [3-Cyclohexene-1-methanol, alpha., alpha.,4-trimethyl-] Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2025 permit
Minimum								
Average								
Maximum								
Month 1 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 2 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15
Month 3 Average								
		<= 37	<= 27	<= 4.9	<= 14	<= 71	<= 16	<= 15

Attachment I

Wastewater Reports

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

February 13, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD) DS AC

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of January 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 1/02/25, 1/07/25, 1/09/25, 1/18/25, 1/22/25, 1/28/25, and 1/30/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 1/3-1/10)
- Leachate Hauling Report (for January)

The following exceedances occurred during the month of January:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	1/07/25	1/27/25	1/27/25 @ 16:52
Arsenic Loading	1/18/25	2/03/25	2/03/25 @ 14:57

All other results met permit-specified limits.

Explanation for **Event 1** in the Self-Monitoring Report comments section below:

Event 1 – After emergency pipeline repairs were completed, a discharge event was scheduled for 1/18 (Saturday). The sampling crew was not scheduled to be onsite to a grab sample of TSS or pH, but an autosampler was prepared to take composite samples over the weekend. Required weekly sampling took place on January 22.

Per KCIW guidance, details regarding January'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 (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD
Laura Belt, Engineer IV, KCSWD
Dan Swope, Engineer III, KCSWD
Grant Dornfeld, Engineer II, KCSWD

Printed on recycled paper

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** January 2025

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

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

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1													202500	
2	C		0.0397	0.2610									788200	
3													795000	
4													795400	
5													800800	
6													806000	
7	C	8.39	0.0412	0.2777	<0.0005	0.0017	0.0502	0.3383	0.00987	0.0665	0.00146	0.00984	808100	
8													804000	
9	C		0.0405	0.2636									780300	
10													624200	
11													254800	
12													0	Pipeline out of service pending repairs; Diagnostic discharges only.
13													0	
14													0	
15													41600	
16													0	
17													67000	
18	C	N/A	0.0444	0.2914	<0.0005	0.0017	0.0572	0.3754	0.00793	0.0520	0.00118	0.00775	787000	Event 1
19													625300	
20													620500	
21													607600	
22	C	8.36	0.0517	0.2621	<0.0005	0.0013	0.0609	0.3088	0.00963	0.0488	0.00126	0.00639	607900	
23													608100	
24	C		0.0548	0.1395									305200	
25													302900	
26													302200	
27													0	
28	C	8.53	0.0599	0.1511	<0.0005	0.0006	0.0757	0.1910	0.00873	0.0220	0.00119	0.00300	302500	
29													0	
30	C		.0611	0.1554									305000	
31													0	

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: Jennifer Kunz 2/13/2025 | 7:34 PM PST

Name and Signature of Principal Executive or Authorized Agent — Date: Feb 13, 2025

Monthly Min pH	8.36	1/22/25	Total Monthly Flow (gallons)	12,942,100	
Monthly Max pH	8.53	1/28/25	Maximum Daily Flow	808,100	1/7/2025

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** January 2025

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

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

Sample Date (circle)	Sample Type*	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1													
2													
3													
4													
5													
6													
7	C	<0.0001	0.00034	0.0506	0.341	<0.0004	0.0014	0.21	1.415	<0.1			
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18	C	<0.0001	0.00033	0.0549	0.360	<0.0004	0.0013	0.158	1.037	N/A			Event 1
19													
20													
21													
22	C	<0.0001	0.00025	0.059	0.299	<0.0004	0.0010	0.185	0.938	<0.1	443	<.2	
23													
24													
25													
26													
27													
28	C	<0.0001	0.00013	0.0691	0.174	<0.0004	0.0005	0.159	0.401	<0.1			
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: Feb 13, 2025

Name and Signature of Principal Executive or Authorized Agent — Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** January 2025

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2					
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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: Feb 13, 2025

Name and Signature of Principal Executive or Authorized Agent — Date

Monthly **MAX** 0 Date 1/3/25-1/10/25

Monthly **AVG** 0

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

January 17, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250102P	**1/2/2025**	**18577**
LEPS250107P	**1/7/2025**	**18580**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected January 2 and 7, 2025 and delivered to KCEL January 7 and 8, 2025, respectively.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receiving Comments

No sample receiving anomalies were observed.

Metals QC Information

All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,

Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/17/2025
Report Group: CHLS-P_011425

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

Client Sample ID: **LEPS250102P**
SDG / Lab Sample ID: **18577 / L85312-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/02/2025**
Login Date: **01/07/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250107P**
SDG / Lab Sample ID: **18580 / L85348-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/07/2025**
Login Date: **01/08/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/17/2025
Report Group: CHLS-P_011425

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

Client Sample ID: **LEPS250102P**
CoC / Lab Sample ID: **18577 / L85312-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/02/2025**
Login Date: **01/07/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0397		.0005	.0005	1	01/09/2025	01/10/2025	WG198258

Client Sample ID: **LEPS250107P**
CoC / Lab Sample ID: **18580 / L85348-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/07/2025**
Login Date: **01/08/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.714		.0501	.0501		01/09/2025	01/10/2025	WG198258
Antimony, Total	10	mg/L	.00589		.00301	.00301		01/09/2025	01/10/2025	WG198258
Arsenic, Total	10	mg/L	.0412		.000501	.000501	1	01/09/2025	01/10/2025	WG198258
Barium, Total	10	mg/L	.072		.00501	.00501		01/09/2025	01/10/2025	WG198258
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/09/2025	01/10/2025	WG198258
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	01/09/2025	01/10/2025	WG198258
Calcium, Total	10	mg/L	74.1		.501	.501		01/09/2025	01/10/2025	WG198258
Chromium, Total	10	mg/L	.0502		.00201	.00201	2.75	01/09/2025	01/10/2025	WG198258
Cobalt, Total	10	mg/L	.0119		.000501	.000501		01/09/2025	01/10/2025	WG198258
Copper, Total	10	mg/L	.00987		.00201	.00201	3	01/09/2025	01/10/2025	WG198258
Iron, Total	10	mg/L	5.71		.1	.1		01/09/2025	01/10/2025	WG198258
Lead, Total	10	mg/L	.00146		.001	.001	2	01/09/2025	01/10/2025	WG198258
Magnesium, Total	10	mg/L	34		.501	.501		01/09/2025	01/10/2025	WG198258
Manganese, Total	10	mg/L	.617		.001	.001		01/09/2025	01/10/2025	WG198258
Nickel, Total	10	mg/L	.0506		.001	.001	2.5	01/09/2025	01/10/2025	WG198258
Phosphorus, Total	10	mg/L	3.03		1	1		01/09/2025	01/10/2025	WG198258
Potassium, Total	10	mg/L	168		1	1		01/09/2025	01/10/2025	WG198258
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		01/09/2025	01/10/2025	WG198258
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	01/09/2025	01/10/2025	WG198258
Sodium, Total	10	mg/L	434		1	1		01/09/2025	01/10/2025	WG198258
Thallium, Total	10	mg/L	<.000752	U	.000752	.000752		01/09/2025	01/10/2025	WG198258
Tin, Total	10	mg/L	<.00501	U	.00501	.00501		01/09/2025	01/10/2025	WG198258
Vanadium, Total	10	mg/L	.0149		.000752	.000752		01/09/2025	01/10/2025	WG198258
Zinc, Total	10	mg/L	.21		.00501	.00501	5	01/09/2025	01/10/2025	WG198258
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/09/2025	01/10/2025	WG198295

Target Parameter Count for Report Group: 26

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Quality Control Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_011425 COC 18577, 18580

Workgroup: WG198258 Total Metals by ICPMS

MB:WG198258-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_011425 COC 18577, 18580

SB:WG198258-2 MB:WG198258-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5160	103		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5140	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	202	101		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4930	99		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5120	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4750	95		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.6	103		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.3	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.9	105		85--115
Iron, Total	5	10	ug/L	<QL	5000	5200	104		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.3	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22	110		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.9	105		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.1	101		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.2	101		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.3	102		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	21.5	107		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	22.2	111		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21.9	109		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.6	103		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_011425 COC 18577, 18580

MSD:WG198258-4 MS:WG198258-3 L85348-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	200	210	105		75--125	200	206	103		2		0--20
Sodium, Total	1000	1000	ug/L	434000	50100	468000		4xRule	75--125	49900	478000		4xRule	2		0--20
Magnesium, Total	501	501	ug/L	34000	50100	83900	100		75--125	49900	84100	100		0		0--20
Aluminum, Total	50.1	50.1	ug/L	714	2000	2690	99		75--125	2000	2830	106		5		0--20
Phosphorus, Total	1000	1000	ug/L	3030	50100	53300	100		75--125	49900	54100	102		1		0--20
Potassium, Total	1000	1000	ug/L	168000	50100	215000	95		75--125	49900	217000	98		1		0--20
Calcium, Total	501	501	ug/L	74100	50100	121000	94		75--125	49900	121000	94		0		0--20
Vanadium, Total	0.752	0.752	ug/L	14.9	200	219	102		75--125	200	222	104		1		0--20
Chromium, Total	2	2	ug/L	50.2	200	256	103		75--125	200	260	105		2		0--20
Manganese, Total	1	1	ug/L	617	200	805	94		75--125	200	816	100		1		0--20
Iron, Total	100	100	ug/L	5710	50100	55200	99		75--125	49900	56200	101		2		0--20
Cobalt, Total	0.501	0.501	ug/L	11.9	200	227	107		75--125	200	229	109		1		0--20
Nickel, Total	1	1	ug/L	50.6	200	263	106		75--125	200	265	107		1		0--20
Copper, Total	2	2	ug/L	9.87	200	229	110		75--125	200	229	110		0		0--20
Zinc, Total	5.01	5.01	ug/L	210	200	415	102		75--125	200	416	103		0		0--20
Arsenic, Total	0.501	0.501	ug/L	41.2	200	247	103		75--125	200	248	103		0		0--20
Selenium, Total	5.01	5.01	ug/L	<QL	200	205	103		75--125	200	206	103		0		0--20
Silver, Total	0.401	0.401	ug/L	<QL	200	191	95		75--125	200	190	95		1		0--20
Cadmium, Total	0.501	0.501	ug/L	<QL	200	202	101		75--125	200	201	101		0		0--20
Tin, Total	5.01	5.01	ug/L	<QL	200	189	94		75--125	200	190	95		0		0--20
Antimony, Total	3.01	3.01	ug/L	5.89	200	217	105		75--125	200	216	105		0		0--20
Barium, Total	5.01	5.01	ug/L	72	200	283	105		75--125	200	290	109		3		0--20
Thallium, Total	0.752	0.752	ug/L	<QL	200	203	101		75--125	200	201	101		1		0--20
Lead, Total	1	1	ug/L	1.46	200	208	103		75--125	200	210	104		1		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_011425 COC 18577, 18580

Workgroup: WG198295 Total & Dissolved Mercury by CVAA

MB:WG198295-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG198295-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198295-2 MB:WG198295-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.969	97		85--115

MSD:WG198295-4 MS:WG198295-3 L85328-5 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.97	99		75--125	2	1.99	99		1		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 1/08/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18580**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
853481	LEPS250107P	1/07/25	1700

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85348-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 1	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	1.6/1.0/0.8	Delivery Location	(Y) / N	

Sub-Contracting: Y (N) List Product(s):

Changes: Y (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1/7/25 Project No.: 421422 JTC

VTRP Collect Date(s): Project Site Test Reference: 18580 CHLS-P(25)

Receive Date: 1/8/25 COC / SDG No.: 18580

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Diaz

Date / Time Completed: JAN 08 '25 13:12

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Chain of Custody Record

Environmental Monitoring Program

Date: 1/3/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18577**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
85312-2	LEPS250102P	1/2/25	1700																															X									1	

GROUNDWATER | SURFACE WATER | LEACHATE/WASTEWATER

Project Site Test Reference

CHGW	Cedar Hills GW Qlty
CHGW	Cedar Hills EPZ GW Qlty
CHGW/AGW	Appendix III GW
CHGW-OS	Cedar Hills GW Offsite
CFGW	Cedar Falls GW Qlty
DUGW	Duvall GW Qlty
ENGW	Enumclaw GW Qlty
HOGW	Hobart GW Qlty
HTGW	Houghton GW Qlty
PUGW	Puyallup GW Qlty
VAGW	Vashon GW Qlty
CHSW-Q	Cedar Hills SW Sta. E-1
CHSW-P	Cedar Hills SW ISGP
CHSW-TD	Cedar Hills SW Top Deck
CHSW-E	CH Emergency
CFSW	Cedar Falls SW Qlty
DUSW	Duvall SW Qlty
VASW	Vashon SW Qlty-WEIRS

TS

HTSW-P	Houghton SW NPDES
SHSW-P	Shoreline SW NPDES
FASW-P	Factoria SW NPDES
ENSW-P	Enumclaw SW NPDES
ALSW-P	Algona SW NPDES
VASW-P	Vashon SW NPDES

CHTW	Cedar Hills Truckwash
CHLS-M	Cedar Hills Leachate Mthly
CHLS-M_MOD	CH Leachate Mods Mthly
CHLS-M_As	CH Leachate As Semi-Ann.

PERMIT

CHLS-P	CH L Permit (wkly, 1st)
CHLS-P	CH L Permit (monthly)
CHLS-P	CH L Permit (wkly, 2nd)
ALLS	Algona WW Permit
BLLS	Bow Lake WW Permit
ENLS	Enumclaw WW Permit
FALS	Factoria WW Permit
SRLS	Shoreline WW Permit
HTLS	Houghton WW Permit
RELS	Renton WW Permit
VALS-P	Vashon WW Permit Tanker
VALS-Q	Vashon Leachate Qlty

Relinquished By Sampler	Date	Received By	Date
Sampler Signature: R. Hooper	1/3/25	Signature: I. Rivera	1/7/25
Sampler Printed Name: KCSWD	Time: 1500	Printed Name: KCSWD	Time: 1235
Company		Company	
Relinquished By	Date	Received By	Date
Signature: I. Rivera	1/7/25	Signature: Jason Linnell	1-7-25
Printed Name: KCSWD	Time: 1335	Printed Name: KCEL	Time: 1335
Company		Company	

Observations/Comments/Special Instructions:
Arsenic ONLY
*Sample locked securly over weekend

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 55312 -2
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.4/2.6/3	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1/2/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 1/7/25 COC / SDG No.: 18577

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Diaz

Date / Time Completed: JAN 07 '25 14:03

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

January 27, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250109P	**1/9/2025**	**18583**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 1 leachate permit sample collected January 9, 2025 and delivered to KCEL January 14, 2025.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receiving Comments

No sample receiving anomalies were observed.

Metals QC Information

All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/27/2025
Report Group: CHLS-P_012125

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

Client Sample ID: **LEPS250109P**
SDG / Lab Sample ID: **18583 / L85348-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/09/2025**
Login Date: **01/14/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/27/2025
Report Group: CHLS-P_012125

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

Client Sample ID: **LEPS250109P**
CoC / Lab Sample ID: **18583 / L85348-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/09/2025**
Login Date: **01/14/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	**10**	**mg/L**	**.0405**		**.0005**	**.0005**	**1**	**01/16/2025**	**01/17/2025**	**WG198392**

Target Parameter Count for Report Group: 1

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Quality Control Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012125 COC 18583

Workgroup: WG198392 Total Metals by ICPMS

MB:WG198392-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG198392-2 MB:WG198392-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.3	102		85--115

MSD:WG198392-4 MS:WG198392-3 L85348-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.491	0.491	ug/L	40.5	197	244	104		75--125	197	241	101		1		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 1/10/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18583**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85348-2	LEPS250109P	1/9/25	1700

Project Site Test Reference

	CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS	TS: HTSW-P Houghton SW NPDES	TS: SHSW-P Shoreline SW NPDES	TS: FASW-P Factoria SW NPDES	TS: ENSW-P Enumclaw SW NPDES	TS: ALSW-P Algona SW NPDES	TS: VASW-P Vashon SW NPDES	CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mlly	CHLS-M_MOD CH Leachate Mods Mlly	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT: CHLS-P CH L Permit (wMly, 1st)	CHLS-P CH L Permit (emthly)	CHLS-P CH L Permit (wMly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
	GROUNDWATER											SURFACE WATER													LEACHATE/WASTEWATER															
	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34		
85348-2	LEPS250109P	1/9/25	1700																												X									1	

Relinquished By Sampler: [signature]
Sampler Signature: I. Rivera IR 1/10/25
Sampler Printed Name: KCSWD
Company
Date: 1/10/25
Time: 1500

Relinquished By: [signature]
Signature: I. Rivera
Printed Name: KCSWD
Company
Date: 1/14/25
Time: 1340

Received By
Signature
Printed Name
Company
Date
Time

Received By: Jason Kinnaird
Signature
Printed Name: KCEL
Company
Date: 1/14/25
Time: 1340

Observations/Comments/Special Instructions:

Sample secured over the weekend and until lab delivery

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	853548 -2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.7 12512.2	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): ~~1/6/25~~ 1/7/25 ~~1/9/25~~ 1/11/25 Project No.: 421422

VTRP Collect Date(s): ~~1/6/25~~ 1/7/25 Project Site Test Reference: CHLS-P(25.2)

Receive Date: 1/14/25 COC / SDG No.: 18583

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: JAN 14 '25 14:17

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

February 10, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P) - revised

Sample Id.	Sample Collect Date	COC
LEPS250118P	**1/18/2025**	**18564**
LEPS250122P	**1/22/2025**	**18625**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected January 18 and 22, 2025. This revision was issued to include the field measured dissolved sulfide result on COC 18625. There were no changes to the reported data.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

Conventionals QC Information
All calculable QC results for conventionals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/31/2025
Report Group: CHLS-P_012825

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

Client Sample ID: **LEPS250118P**
SDG / Lab Sample ID: **18564 / L85368-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/18/2025**
Login Date: **01/21/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250122P**
SDG / Lab Sample ID: **18625 / L85404-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/22/2025**
Login Date: **01/23/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 01/31/2025
Report Group: CHLS-P_012825

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

Client Sample ID: **LEPS250118P**
CoC / Lab Sample ID: **18564 / L85368-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/18/2025**
Login Date: **01/21/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.604		.0506	.0506		01/27/2025	01/29/2025	WG198482
Antimony, Total	10	mg/L	.00655		.00304	.00304		01/27/2025	01/29/2025	WG198482
Arsenic, Total	10	mg/L	.0444		.000506	.000506	1	01/27/2025	01/29/2025	WG198482
Barium, Total	10	mg/L	.073		.00506	.00506		01/27/2025	01/29/2025	WG198482
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		01/27/2025	01/29/2025	WG198482
Cadmium, Total	10	mg/L	<.000506	U	.000506	.000506	0.5	01/27/2025	01/29/2025	WG198482
Calcium, Total	10	mg/L	79.1		.506	.506		01/27/2025	01/29/2025	WG198482
Chromium, Total	10	mg/L	.0572		.00203	.00203	2.75	01/27/2025	01/29/2025	WG198482
Cobalt, Total	10	mg/L	.0125		.000506	.000506		01/27/2025	01/29/2025	WG198482
Copper, Total	10	mg/L	.00793		.00203	.00203	3	01/27/2025	01/29/2025	WG198482
Iron, Total	10	mg/L	5.35		.101	.101		01/27/2025	01/29/2025	WG198482
Lead, Total	10	mg/L	.00118		.00101	.00101	2	01/27/2025	01/29/2025	WG198482
Magnesium, Total	10	mg/L	36.3		.506	.506		01/27/2025	01/29/2025	WG198482
Manganese, Total	10	mg/L	.607		.00101	.00101		01/27/2025	01/29/2025	WG198482
Nickel, Total	10	mg/L	.0549		.00101	.00101	2.5	01/27/2025	01/29/2025	WG198482
Phosphorus, Total	10	mg/L	3.34		1.01	1.01		01/27/2025	01/29/2025	WG198482
Potassium, Total	10	mg/L	185		1.01	1.01		01/27/2025	01/29/2025	WG198482
Selenium, Total	10	mg/L	<.00506	U	.00506	.00506		01/27/2025	01/29/2025	WG198482
Silver, Total	10	mg/L	<.000405	U	.000405	.000405	1	01/27/2025	01/29/2025	WG198482
Sodium, Total	10	mg/L	486		1.01	1.01		01/27/2025	01/29/2025	WG198482
Thallium, Total	10	mg/L	<.00076	U	.00076	.00076		01/27/2025	01/29/2025	WG198482
Tin, Total	10	mg/L	<.00506	U	.00506	.00506		01/27/2025	01/29/2025	WG198482
Vanadium, Total	10	mg/L	.0163		.00076	.00076		01/27/2025	01/29/2025	WG198482
Zinc, Total	10	mg/L	.158		.00506	.00506	5	01/27/2025	01/29/2025	WG198482
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/27/2025	01/28/2025	WG198559

Client Sample ID: **LEPS250122P**
CoC / Lab Sample ID: **18625 / L85404-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/22/2025**
Login Date: **01/23/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	10000	mg/L	443		20	100		01/24/2025	01/24/2025	WG198546
Nitrate + Nitrite as N	20	mg/L	<.2	U	.2	.8		01/24/2025	01/24/2025	WG198546

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.819		.05	.05		01/24/2025	01/27/2025	WG198517
Antimony, Total	10	mg/L	.00722		.003	.003		01/24/2025	01/27/2025	WG198517
Arsenic, Total	10	mg/L	.0517		.0005	.0005	1	01/24/2025	01/27/2025	WG198517
Barium, Total	10	mg/L	.0805		.005	.005		01/24/2025	01/27/2025	WG198517
Beryllium, Total	10	mg/L	<.001	U	.001	.001		01/24/2025	01/27/2025	WG198517
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	01/24/2025	01/27/2025	WG198517
Calcium, Total	10	mg/L	78.8		.5	.5		01/24/2025	01/27/2025	WG198517
Chromium, Total	10	mg/L	.0609		.002	.002	2.75	01/24/2025	01/27/2025	WG198517

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Client Sample ID: **LEPS250122P** Collect Date: **01/22/2025**
CoC / Lab Sample ID: **18625 / L85404-1** Login Date: **01/23/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Cobalt, Total	**10**	**mg/L**	**.0141**		**.0005**	**.0005**		**01/24/2025**	**01/27/2025**	**WG198517**
Copper, Total	**10**	**mg/L**	**.00963**		**.002**	**.002**	**3**	**01/24/2025**	**01/27/2025**	**WG198517**
Iron, Total	**10**	**mg/L**	**5.69**		**.1**	**.1**		**01/24/2025**	**01/27/2025**	**WG198517**
Lead, Total	**10**	**mg/L**	**.00126**		**.001**	**.001**	**2**	**01/24/2025**	**01/27/2025**	**WG198517**
Magnesium, Total	**10**	**mg/L**	**38.4**		**.5**	**.5**		**01/24/2025**	**01/27/2025**	**WG198517**
Manganese, Total	**10**	**mg/L**	**.611**		**.001**	**.001**		**01/24/2025**	**01/27/2025**	**WG198517**
Nickel, Total	**10**	**mg/L**	**.059**		**.001**	**.001**	**2.5**	**01/24/2025**	**01/27/2025**	**WG198517**
Phosphorus, Total	**10**	**mg/L**	**3.46**		**1**	**1**		**01/24/2025**	**01/27/2025**	**WG198517**
Potassium, Total	**10**	**mg/L**	**202**		**1**	**1**		**01/24/2025**	**01/27/2025**	**WG198517**
Selenium, Total	**10**	**mg/L**	**<.005**	**U**	**.005**	**.005**		**01/24/2025**	**01/27/2025**	**WG198517**
Silver, Total	**10**	**mg/L**	**<.0004**	**U**	**.0004**	**.0004**	**1**	**01/24/2025**	**01/27/2025**	**WG198517**
Sodium, Total	**10**	**mg/L**	**541**		**1**	**1**		**01/24/2025**	**01/27/2025**	**WG198517**
Thallium, Total	**10**	**mg/L**	**<.000751**	**U**	**.000751**	**.000751**		**01/24/2025**	**01/27/2025**	**WG198517**
Tin, Total	**10**	**mg/L**	**<.005**	**U**	**.005**	**.005**		**01/24/2025**	**01/27/2025**	**WG198517**
Vanadium, Total	**10**	**mg/L**	**.0177**		**.000751**	**.000751**		**01/24/2025**	**01/27/2025**	**WG198517**
Zinc, Total	**10**	**mg/L**	**.185**		**.005**	**.005**	**5**	**01/24/2025**	**01/27/2025**	**WG198517**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**01/24/2025**	**01/27/2025**	**WG198539**

Target Parameter Count for Report Group: 52

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Quality Control Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Workgroup: WG198546 Dissolved Nutrients

MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.002	0.01	mg/L		U

MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrate Nitrogen	0.01	0.04	mg/L		U

SB:WG198546-3 MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0423	106		80--120

SB:WG198546-3 MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1.02	102		80--120

SB:WG198546-3 MB:WG198546-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	U	0.7	0.699	100		80--120

LCS:WG198546-4 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.05	0.0546	109		85--115

LCS:WG198546-4 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	0.99	99		85--115

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

LCS:WG198546-4 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.8	0.782	98		85--115

LD:WG198546-5 L85403-3 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.2	1	mg/L	9.86	10.4	6		0--20

LD:WG198546-5 L85403-3 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.02	0.08	mg/L	0.687	0.681	1		0--20

MS:WG198546-6 L85403-3 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.2	1	mg/L	9.86	0.04	14.2	108		75--125

MS:WG198546-6 L85403-3 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.02	0.08	mg/L	0.687	1	2.65	98		75--125

LD:WG198546-7 L85360-3 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421937 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.004	0.02	mg/L	0.159	0.16	1		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

LD:WG198546-7 L85360-3 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421937 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.115	0.115	0		0--20

MS:WG198546-8 L85360-3 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421937 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.004	0.02	mg/L	0.159	0.04	0.234	95		75--125

MS:WG198546-8 L85360-3 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421937 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.115	0.7	0.748	91		75--125

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Workgroup: WG198482 Total Metals by ICPMS

MB:WG198482-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

SB:WG198482-2 MB:WG198482-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.9	99		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5120	102		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5210	104		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	206	103		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4990	100		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5190	104		85--115
Calcium, Total	25	50	ug/L	<QL	5000	5010	100		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.4	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.6	108		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115
Iron, Total	5	10	ug/L	<QL	5000	5140	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21	105		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.5	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22	110		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.5	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.5	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.6	103		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.2	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21.3	107		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.4	102		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

MSD:WG198482-4 MS:WG198482-3 L85368-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	201	201	100		75--125	199	206	103		2		0--20
Sodium, Total	1000	1000	ug/L	486000	50100	530000		4xRule	75--125	49800	540000		4xRule	2		0--20
Magnesium, Total	501	501	ug/L	36300	50100	86900	101		75--125	49800	88400	105		2		0--20
Aluminum, Total	50.1	50.1	ug/L	604	2010	2630	101		75--125	1990	2700	105		3		0--20
Phosphorus, Total	1000	1000	ug/L	3340	50100	54600	102		75--125	49800	54600	103		0		0--20
Potassium, Total	1000	1000	ug/L	185000	50100	236000	102		75--125	49800	236000	102		0		0--20
Calcium, Total	501	501	ug/L	79100	50100	129000	98		75--125	49800	130000	102		1		0--20
Vanadium, Total	0.752	0.752	ug/L	16.3	201	222	102		75--125	199	226	105		2		0--20
Chromium, Total	2.01	2.01	ug/L	57.2	201	270	106		75--125	199	270	107		0		0--20
Manganese, Total	1	1	ug/L	607	201	808	100		75--125	199	823	108		2		0--20
Iron, Total	100	100	ug/L	5350	50100	56300	102		75--125	49800	56700	103		1		0--20
Cobalt, Total	0.501	0.501	ug/L	12.5	201	226	107		75--125	199	225	107		1		0--20
Nickel, Total	1	1	ug/L	54.9	201	271	108		75--125	199	269	107		1		0--20
Copper, Total	2.01	2.01	ug/L	7.93	201	231	111		75--125	199	229	111		1		0--20
Zinc, Total	5.01	5.01	ug/L	158	201	377	109		75--125	199	368	105		2		0--20
Arsenic, Total	0.501	0.501	ug/L	44.4	201	253	104		75--125	199	254	105		0		0--20
Selenium, Total	5.01	5.01	ug/L	<QL	201	209	104		75--125	199	210	105		0		0--20
Silver, Total	0.401	0.401	ug/L	<QL	201	201	100		75--125	199	199	100		1		0--20
Cadmium, Total	0.501	0.501	ug/L	<QL	201	201	100		75--125	199	202	101		0		0--20
Tin, Total	5.01	5.01	ug/L	<QL	201	187	93		75--125	199	182	91		3		0--20
Antimony, Total	3.01	3.01	ug/L	6.55	201	214	103		75--125	199	210	102		2		0--20
Barium, Total	5.01	5.01	ug/L	73	201	298	112		75--125	199	294	111		1		0--20
Thallium, Total	0.752	0.752	ug/L	<QL	201	199	99		75--125	199	195	98		2		0--20
Lead, Total	1	1	ug/L	1.18	201	225	112		75--125	199	218	109		3		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Workgroup: WG198517 Total Metals by ICPMS

MB:WG198517-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

SB:WG198517-2 MB:WG198517-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5190	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5150	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	201	100		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4830	97		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5030	101		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4750	95		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	19.8	99		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	20.9	105		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.4	102		85--115
Iron, Total	5	10	ug/L	<QL	5000	5160	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.1	105		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.7	103		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.9	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20	100		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.4	102		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.8	104		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

MSD:WG198517-4 MS:WG198517-3 L85404-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.999	0.999	ug/L	<QL	200	202	101		75--125	200	196	98		3		0--20
Sodium, Total	999	999	ug/L	541000	49900	583000		4xRule	75--125	49900	587000		4xRule	1		0--20
Magnesium, Total	499	499	ug/L	38400	49900	88700	101		75--125	49900	88300	100		0		0--20
Aluminum, Total	49.9	49.9	ug/L	819	2000	2780	98		75--125	2000	2840	101		2		0--20
Phosphorus, Total	999	999	ug/L	3460	49900	52900	99		75--125	49900	53700	101		2		0--20
Potassium, Total	999	999	ug/L	202000	49900	253000		4xRule	75--125	49900	256000		4xRule	1		0--20
Calcium, Total	499	499	ug/L	78800	49900	127000	96		75--125	49900	128000	98		1		0--20
Vanadium, Total	0.749	0.749	ug/L	17.7	200	216	99		75--125	200	218	100		1		0--20
Chromium, Total	2	2	ug/L	60.9	200	267	103		75--125	200	267	103		0		0--20
Manganese, Total	0.999	0.999	ug/L	611	200	814	102		75--125	200	816	103		0		0--20
Iron, Total	99.9	99.9	ug/L	5690	49900	56100	101		75--125	49900	56600	102		1		0--20
Cobalt, Total	0.499	0.499	ug/L	14.1	200	227	107		75--125	200	226	106		0		0--20
Nickel, Total	0.999	0.999	ug/L	59	200	269	105		75--125	200	268	105		0		0--20
Copper, Total	2	2	ug/L	9.63	200	224	107		75--125	200	224	107		0		0--20
Zinc, Total	4.99	4.99	ug/L	185	200	388	102		75--125	200	386	101		1		0--20
Arsenic, Total	0.499	0.499	ug/L	51.7	200	256	102		75--125	200	260	104		1		0--20
Selenium, Total	4.99	4.99	ug/L	<QL	200	208	104		75--125	200	210	105		1		0--20
Silver, Total	0.399	0.399	ug/L	<QL	200	192	96		75--125	200	190	95		1		0--20
Cadmium, Total	0.499	0.499	ug/L	<QL	200	200	100		75--125	200	199	100		1		0--20
Tin, Total	4.99	4.99	ug/L	<QL	200	172	86		75--125	200	170	85		1		0--20
Antimony, Total	3	3	ug/L	7.22	200	216	105		75--125	200	208	101		4		0--20
Barium, Total	4.99	4.99	ug/L	80.5	200	285	103		75--125	200	288	104		1		0--20
Thallium, Total	0.749	0.749	ug/L	<QL	200	204	102		75--125	200	206	103		1		0--20
Lead, Total	0.999	0.999	ug/L	1.26	200	209	104		75--125	200	211	105		1		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Workgroup: WG198539 Total & Dissolved Mercury by CVAA

MB:WG198539-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG198539-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198539-2 MB:WG198539-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.957	96		85--115

MSD:WG198539-4 MS:WG198539-3 L85403-3 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	2.03	101		75--125	2	2.04	102		1		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_012825 COC 18564, 18600

Workgroup: WG198559 Total Mercury by CVAA

MB:WG198559-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198559-2 MB:WG198559-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.961	96		85--115

MSD:WG198559-4 MS:WG198559-3 L85368-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.87	93		75--125	2	1.88	94		1		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 1/21/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18564**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
853682	~~LEPS25012T~~ RH 1/21/25	1/18/25	1420																												X													1	
	LEPS25011BP																																											

GROUNDWATER | SURFACE WATER | LEACHATE/WASTEWATER

TS | PERMIT

	Project Site Test Reference
2	CHGW Cedar Hills GW Qtly
2.1	CHGW Cedar Hills EPZ GW Qtly
4	CHGW/AGW Appendix III GW
38	CHGW-OS Cedar Hills GW Offsite
5	CFGW Cedar Falls GW Qtly
6	DUGW Duvall GW Qtly
7	ENGW Enumclaw GW Qtly
8	HOGW Hobart GW Qtly
9	HTGW Houghton GW Qtly
10	PUGW Puyallup GW Qtly
12	VAGW Vashon GW Qtly
14	CHSW-Q Cedar Hills SW Sta. E-1
16	CHSW-P Cedar Hills SW ISGP
42	CHSW-TD Cedar Hills SW Top Deck
49.1	CHSW-E CH Emergency
17	CFSW Cedar Falls SW Qtly
18	DUSW Duvall SW Qtly
21	VASW Vashon SW Qtly-WEIRS
52	HTSW-P Houghton SW NPDES
53	SHSW-P Shoreline SW NPDES
54	FASW-P Factoria SW NPDES
56	ENSW-P Enumclaw SW NPDES
57	ALSW-P Algona SW NPDES
58	VASW-P Vashon SW NPDES
24	CHTW Cedar Hills Truckwash
23	CHLS-M Cedar Hills Leachate Mthly
23+	CHLS-M_MOD CH Leachate Mods Mthly
23.1	CHLS-M_Aa CH Leachate As Semi-Ann.
25	CHLS-P CH L Permit (wkly, 1st)
25.1	CHLS-P CH L Permit (mnthly)
25.2	CHLS-P CH L Permit (wkly, 2nd)
26	ALLS Algona WW Permit
20	BLLS Bow Lake WW Permit
27	ENLS Enumclaw WW Permit
28	FALS Factoria WW Permit
29	SRLS Shoreline WW Permit
30	HTLS Houghton WW Permit
31	RELS Renton WW Permit
32	VALS-P Vashon WW Permit Tanker
34	VALS-Q Vashon Leachate Qtly

Relinquished By Sampler	Date: 1/21/25	Received By: [signature]	Date: 1/21/25
Sampler Signature: N. Reiber		Signature: B. Hooper	
Sampler Printed Name: KCSWD	Time: 1230	Printed Name: KCSWD	Time: 1230
Company		Company	
Relinquished By: [signature]	Date: 1/21/25	Received By: [signature]	Date: 1/21/25
Signature: B. Hooper		Signature: A. Trejo	
Printed Name: KCSWD	Time: 1330	Printed Name: KCEL	Time: 1330
Company		Company	

Observations/Comments/Special Instructions:

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	85368 -2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)	1										
500 mL HDPE (METALS)											
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	GS 10.3 0.2	Delivery Location	(Y) N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1/18/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 1/21/25 COC / SDG No.: 183604

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
(CPMS)/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Jay

Date / Time Completed: JAN 21 '25 13:41

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Chain of Custody Record

Environmental Monitoring Program

Date: 1/23/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18625**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.1) ✓

Lab No.	Sample ID	Date	Time	Number of Bottles	Remarks
✓ 85404-1	LEBS250122P	1/22/25	1500	2	Diss. Sulfide? <0.1ppm AW 2/3/25

Project Site Test Reference

GROUNDWATER												
CHGW Cedar Hills GW Qtly	CHGW Cedar Hills EPZ GW Qtly	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qtly	DUGW Duvall GW Qtly	ENGW Enumclaw GW Qtly	HOGW Hobart GW Qtly	HTGW Houghton GW Qtly	PUGW Puyallup GW Qtly	VAGW Vashon GW Qtly		
2	2.1	4	38	5	6	7	8	9	10	12		

SURFACE WATER												
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qtly	DUSW Duvall SW Qtly	VASW Vashon SW Qtly-WEIRS						
14	16	42	49.1	17	18	21						

TS						
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	
52	53	54	56	57	58	

LEACHATE/WASTEWATER																										
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT																						
				CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qtly									
24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34											
					X																					

Relinquished By Sampler	Date	Received By	Date
Sampler Signature: I. Rivera	1/23/25	Signature	
Sampler Printed Name: KCSWD	Time: 1335	Printed Name	Time
Company		Company	
Relinquished By	Date	Received By: Jason Kinnard	Date: 1-23-25
Signature		Signature	
Printed Name	Time	Printed Name: KCEL	Time: 1339
Company		Company	

Observations/Comments/Special Instructions:
Nutrients field filtered

Total # of Bottles: 2 ✓

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

VAA 2.3.25

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	85404 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE	1										
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 2	2										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.5 1.2 2.3	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1-22-25 Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25.1)

Receive Date: 1-23-25 COC / SDG No.: 196025

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other: NH_3, NO23 field filtered			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: JAN 23 '25 19:58

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

February 10, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250124P	**1/24/2025**	**18627**
LEPS250128P	**1/28/2025**	**18499**
LEPS250130P	**1/30/2025**	**18628**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 3 leachate permit samples collected January 24, 28 and 30, 2025.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/10/2025
Report Group: CHLS-P_020425

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

Client Sample ID: **LEPS250128P**
SDG / Lab Sample ID: **18499 / L85407-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **01/28/2025**
Login Date: **01/28/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250124P**
SDG / Lab Sample ID: **18627 / L85406-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **01/24/2025**
Login Date: **01/28/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250130P**
SDG / Lab Sample ID: **18628 / L85368-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **01/30/2025**
Login Date: **01/31/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/10/2025
Report Group: CHLS-P_020425

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

Client Sample ID: **LEPS250128P**
CoC / Lab Sample ID: **18499 / L85407-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/28/2025**
Login Date: **01/28/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		01/29/2025	01/30/2025	WG198583
Aluminum, Total	10	mg/L	.772		.0497	.0497		02/03/2025	02/04/2025	WG198629
Antimony, Total	10	mg/L	.0079		.00298	.00298		02/03/2025	02/04/2025	WG198629
Arsenic, Total	10	mg/L	.0599		.000497	.000497	1	02/03/2025	02/04/2025	WG198629
Barium, Total	10	mg/L	.0926		.00497	.00497		02/03/2025	02/04/2025	WG198629
Beryllium, Total	10	mg/L	<.000994	U	.000994	.000994		02/03/2025	02/04/2025	WG198629
Cadmium, Total	10	mg/L	<.000497	U	.000497	.000497	0.5	02/03/2025	02/04/2025	WG198629
Calcium, Total	10	mg/L	82.1		.497	.497		02/03/2025	02/04/2025	WG198629
Chromium, Total	10	mg/L	.0757		.00199	.00199	2.75	02/03/2025	02/04/2025	WG198629
Cobalt, Total	10	mg/L	.0159		.000497	.000497		02/03/2025	02/04/2025	WG198629
Copper, Total	10	mg/L	.00873		.00199	.00199	3	02/03/2025	02/04/2025	WG198629
Iron, Total	10	mg/L	5.89		.0994	.0994		02/03/2025	02/04/2025	WG198629
Lead, Total	10	mg/L	.00119		.000994	.000994	2	02/03/2025	02/04/2025	WG198629
Magnesium, Total	10	mg/L	43.5		.497	.497		02/03/2025	02/04/2025	WG198629
Manganese, Total	10	mg/L	.62		.000994	.000994		02/03/2025	02/04/2025	WG198629
Nickel, Total	10	mg/L	.0691		.000994	.000994	2.5	02/03/2025	02/04/2025	WG198629
Phosphorus, Total	10	mg/L	4.1		.994	.994		02/03/2025	02/04/2025	WG198629
Potassium, Total	10	mg/L	247		.994	.994		02/03/2025	02/04/2025	WG198629
Selenium, Total	10	mg/L	<.00497	U	.00497	.00497		02/03/2025	02/04/2025	WG198629
Silver, Total	10	mg/L	<.000397	U	.000397	.000397	1	02/03/2025	02/04/2025	WG198629
Sodium, Total	10	mg/L	640		.994	.994		02/03/2025	02/04/2025	WG198629
Thallium, Total	10	mg/L	<.000745	U	.000745	.000745		02/03/2025	02/04/2025	WG198629
Tin, Total	10	mg/L	.00556		.00497	.00497		02/03/2025	02/04/2025	WG198629
Vanadium, Total	10	mg/L	.0226		.000745	.000745		02/03/2025	02/04/2025	WG198629
Zinc, Total	10	mg/L	.159		.00497	.00497	5	02/03/2025	02/04/2025	WG198629

Client Sample ID: **LEPS250124P**
CoC / Lab Sample ID: **18627 / L85406-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/24/2025**
Login Date: **01/28/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0548		.0005	.0005	1	02/03/2025	02/04/2025	WG198629

Client Sample ID: **LEPS250130P**
CoC / Lab Sample ID: **18628 / L85368-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **01/30/2025**
Login Date: **01/31/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0611		.000505	.000505	1	02/03/2025	02/04/2025	WG198629

Target Parameter Count for Report Group: 27

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Quality Control Data

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_020425 COC 18499, 18627, 18628

Workgroup: WG198583 Total Mercury by CVAA

MB:WG198583-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198583-2 MB:WG198583-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.991	99		85--115

MSD:WG198583-4 MS:WG198583-3 L85407-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.77	88		75--125	2	1.76	88		0		0--20

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_020425 COC 18499, 18627, 18628

Workgroup: WG198629 Total Metals by ICPMS

MB:WG198629-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_020425 COC 18499, 18627, 18628

SB:WG198629-2 MB:WG198629-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.6	98		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5150	103		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5020	100		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	199	99		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4930	99		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5250	105		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4930	99		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.6	103		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.8	104		85--115
Iron, Total	5	10	ug/L	<QL	5000	5070	101		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.3	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.5	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.8	109		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.3	101		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.1	101		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.7	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.9	105		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.9	109		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

King County Environmental Laboratory QC Report

CHLS-P_020425 COC 18499, 18627, 18628

MSD:WG198629-4 MS:WG198629-3 L85407-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.996	0.996	ug/L	<QL	199	206	104		75--125	197	199	101		4		0--20
Sodium, Total	996	996	ug/L	640000	49800	650000		4xRule	75--125	49300	657000		4xRule	1		0--20
Magnesium, Total	498	498	ug/L	43500	49800	92000	97		75--125	49300	92000	98		0		0--20
Aluminum, Total	49.8	49.8	ug/L	772	1990	2800	102		75--125	1970	2760	101		1		0--20
Phosphorus, Total	996	996	ug/L	4100	49800	54600	101		75--125	49300	55000	103		1		0--20
Potassium, Total	996	996	ug/L	247000	49800	291000		4xRule	75--125	49300	295000		4xRule	2		0--20
Calcium, Total	498	498	ug/L	82100	49800	129000	94		75--125	49300	134000	105		4		0--20
Vanadium, Total	0.747	0.747	ug/L	22.6	199	231	105		75--125	197	227	104		2		0--20
Chromium, Total	1.99	1.99	ug/L	75.7	199	283	104		75--125	197	284	106		0		0--20
Manganese, Total	0.996	0.996	ug/L	620	199	804	92		75--125	197	807	95		0		0--20
Iron, Total	99.6	99.6	ug/L	5890	49800	54600	98		75--125	49300	55100	100		1		0--20
Cobalt, Total	0.498	0.498	ug/L	15.9	199	227	106		75--125	197	226	107		0		0--20
Nickel, Total	0.996	0.996	ug/L	69.1	199	281	106		75--125	197	278	106		1		0--20
Copper, Total	1.99	1.99	ug/L	8.73	199	233	112		75--125	197	223	109		4		0--20
Zinc, Total	4.98	4.98	ug/L	159	199	370	106		75--125	197	365	105		1		0--20
Arsenic, Total	0.498	0.498	ug/L	59.9	199	268	105		75--125	197	267	105		0		0--20
Selenium, Total	4.98	4.98	ug/L	<QL	199	209	105		75--125	197	210	106		0		0--20
Silver, Total	0.398	0.398	ug/L	<QL	199	195	98		75--125	197	195	99		0		0--20
Cadmium, Total	0.498	0.498	ug/L	<QL	199	198	100		75--125	197	199	101		0		0--20
Tin, Total	4.98	4.98	ug/L	5.56	199	188	92		75--125	197	184	91		2		0--20
Antimony, Total	2.99	2.99	ug/L	7.9	199	213	103		75--125	197	207	101		3		0--20
Barium, Total	4.98	4.98	ug/L	92.6	199	311	110		75--125	197	301	105		3		0--20
Thallium, Total	0.747	0.747	ug/L	<QL	199	217	109		75--125	197	205	104		5		0--20
Lead, Total	0.996	0.996	ug/L	1.19	199	221	110		75--125	197	213	107		4		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 1/28/2025

Department of Natural Resources and Parks
Solid Waste Division

No. **18499**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
854071	LEPS250128P	1/28/25	1100

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85407										
	-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 2011.9	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1-28-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 1-28-25 COC / SDG No.: 18499

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: JAN 28 '25 13:31

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Chain of Custody Record

Environmental Monitoring Program

Date: 1/24/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18627**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
854006-1	LEPS250124P	1/24/25	1100

Project Site Test Reference

	CHGW	CHGW	CHGW/AGW	CHGW-OS	CFGW	DUGW	ENGW	HOGW	HTGW	PUGW	VAGW	CHSW-Q	CHSW-P	CHSW-TD	CHSW-E	CFSW	DUSW	VASW	HTSW-P	SHSW-P	FASW-P	ENSW-P	ALSW-P	VASW-P	CHTW	CHLS-M	CHLS-M_MOD	CHLS-M_As	CHLS-P	CHLS-P	CHLS-P	ALLS	BLLS	ENLS	FALS	SRLS	HTLS	RELS	VALS-P	VALS-Q	Number of Bottles	Remarks
	Cedar Hills GW Qtly	Cedar Hills EPZ GW Qtly	Appendix III GW	Cedar Hills GW Offsite	Cedar Falls GW Qtly	Duvall GW Qtly	Enumclaw GW Qtly	Hobart GW Qtly	Houghton GW Qtly	Puyallup GW Qtly	Vashon GW Qtly	Cedar Hills SW Sta. E-1	Cedar Hills SW tSGP	Cedar Hills SW Top Deck	CH Emergency	Cedar Falls SW Qtly	Duvall SW Qtly	Vashon SW Qtly-MEIRS	Houghton SW NPDES	Shoreline SW NPDES	Factoria SW NPDES	Enumclaw SW NPDES	Algona SW NPDES	Vashon SW NPDES	Cedar Hills Truckwash	Cedar Hills Leachate Mthly	CH Leachate Mods Mthly	CH Leachate As Semi-Ann.	CH L Permit (wkly, 1st)	CH L Permit (monthly)	CH L Permit (wkly, 2nd)	Algona WW Permit	Bow Lake WW Permit	Enumclaw WW Permit	Factoria WW Permit	Shoreline WW Permit	Houghton WW Permit	Renton WW Permit	Vashon WW Permit Tanker	Vashon Leachate Qtly		
	GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT												
	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34		
854006-1	LEPS250124P	1/24/25	1100																													X									1	

Relinquished By Sampler	J. Patten	Date	1/24/25	Received By	I. Rivera	Date	1/28/25
Sampler Signature		Time	1530*	Printed Name	KCSWD	Time	1100
Sampler Printed Name	KCSWD			Company			
Company							
Relinquished By	I. Rivera	Date	1/28/25	Received By	Jason Kinnard	Date	1/28/25
Signature				Signature			
Printed Name	KCSWD	Time	1325	Printed Name	KCEL	Time	1325
Company				Company			

Observations/Comments/Special Instructions:

As only

*Sample secured in ice chest until delivery.

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85406-1
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

Sample Collect Date(s): 1-24-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 1-28-25 COC / SDG No.: 18627

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	2.4 / 2.3 / 2.3	Delivery Location	(Y) / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually Inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

COMMENTS / NOTIFICATIONS

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: JAN 28 '25 13:31

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Chain of Custody Record

Environmental Monitoring Program

Date: 1/31/25

Department of
Natural Resources and Parks
Solid Waste Division

No. **18628**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85368-1	LEPS250130P	1/30/25	1100

Project Site Test Reference

| GROUNDWATER | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85368-1
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples 1	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	1.9 / 2.0 / 1.5	Delivery Location	(Y) N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 1/30/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P (25.2)

Receive Date: 1/31/25 COC / SDG No.: 185628

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Diaz

Date / Time Completed: JAN 31 '25 13:53

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	01/03/2025 @ 0731
Sample Count	**Interval Time (sec)**	**Bump Test Date**
10313	60	01/03/2025 @ 0734

H2S Readings

Date	Daily Max	Daily Average
1/3/2025	0	0
1/4/2025	0	0
1/5/2025	0	0
1/6/2025	0	0
1/7/2025	0	0
1/8/2025	0	0
1/9/2025	0	0
1/10/2025	0	0

Docusign Envelope ID: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E

KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: JANUARY

YEAR: 2025

	DUVALL						VASHON				HOBART		OTHER		
DATE	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		REMARKS
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								2							
12				1											
13															
14															
15		4													
16															
17															
18															
19															
20															
21															
22															
23															
24								2							
25															
26															
27		1						1							
28															
29															
30															
31				2											
TOTAL	0	35000.00	0	21000.00	0	0.00	0	35000.00	0	0.00	0	0.00	0	0.00	

Certificate Of Completion

Envelope Id: F4C4E40D-CF88-4C2F-AF34-7B29F3BB881E
Status: Completed
Subject: Complete with Docusign: 01.03.2025_EAGLE2TABLE.pdf, 7842-04_SMR_January2025.pdf, CHLS-P_011425 ...
Source Envelope:
Document Pages: 73
Signatures: 3
Certificate Pages: 5
Initials: 1
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Envelope Originator:
Aaron Copado
401 5TH AVE
SEATTLE, WA 98104
acopado@kingcounty.gov
IP Address: 76.147.161.144

Record Tracking

Status: Original
2/13/2025 12:03:22 PM
Holder: Aaron Copado
acopado@kingcounty.gov
Location: DocuSign

Security Appliance Status: Connected
Pool: FedRamp

Storage Appliance Status: Connected
Pool: King County-Dept of Natural Resources-Solid Waste
Location: DocuSign

Signer Events	Signature	Timestamp
Aaron Copado acopado@kingcounty.gov Environmental Scientist III KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 76.147.161.144	Sent: 2/13/2025 12:08:43 PM Viewed: 2/13/2025 12:08:48 PM Signed: 2/13/2025 12:08:55 PM
Electronic Record and Signature Disclosure: Not Offered via DocuSign		
Jennifer Keune jennifer.keune@kingcounty.gov Interim Supervisor KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 67.160.11.161	Sent: 2/13/2025 12:08:58 PM Viewed: 2/13/2025 2:35:05 PM Signed: 2/13/2025 2:36:11 PM
Electronic Record and Signature Disclosure: Accepted: 3/31/2021 3:20:14 PM ID: 040441cf-883c-43c6-a4af-1ccb2ef73edc		

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 Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	2/13/2025 12:08:43 PM
Certified Delivered	Security Checked	2/13/2025 2:35:05 PM
Signing Complete	Security Checked	2/13/2025 2:36:11 PM
Completed	Security Checked	2/13/2025 2:36:11 PM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, King County-ZZDepartmentTemplate 03 (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a $0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact King County-ZZDepartmentTemplate 03:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: cipriano.dacanay@kingcounty.gov

To advise King County-ZZDepartmentTemplate 03 of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at cipriano.dacanay@kingcounty.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from King County-ZZDepartmentTemplate 03

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

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i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify King County-ZZDepartmentTemplate 03 as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by King County-ZZDepartmentTemplate 03 during the course of your relationship with King County-ZZDepartmentTemplate 03.

Docusign Envelope ID: CBADA4CB-EDF0-48A3-8EA6-CD46845F6DAC

14-Day Report for Discharge or Permit Violation

For more information on reporting requirements refer to your Permit, Section S4.D. If you have a Major/Minor Discharge Authorization refer to General Conditions D

Date: 02/13/25 Company Name: King County Solid Waste Division (KCSWD)

Permit/Authorization Number: 7842-04 Sample Site Number: A90021

1. **Description and Cause of Non-Compliance Event:** (include dates, times, locations; sample results and estimated gallons discharged)

In the last month, SWD became aware of the exceedances summarized in the table below.

Arsenic Loading (A90021)

Exceedance Date	Aware Date	Arsenic Concentration (mg/L)	Flow (gallons)	Arsenic Loading (lbs/day)
Permit Limit		*4.0*	*2,700,000*	*0.27*
1/07/25	01/27/25	0.0412	808,100	0.2777
1/18/25	02/03/25	0.0444	787,000	0.2914

KCSWD employs operational practices designed to minimize arsenic loading exceedances. This includes self-imposed limits on the volume of leachate discharged daily based on recent arsenic concentration data. Doing so allowed KCSWD to successfully comply with arsenic loading limits for virtually all of 2024. Seasonal variations in precipitation greatly affect KCSWD's ability to manage wastewater on-site using existing capacity, which increases the risk of exceeding the arsenic loading limit.

On January 7, a miscommunication resulted in discharges in excess of the self-imposed pumping limit at the time. The resulting discharge slightly exceeded the daily arsenic loading limit.

On January 11, routine discharges were suspended to facilitate emergency pipeline repair activities. The pipeline returned to service on January 17, at which point discharges resumed. To restore onsite capacity that was consumed during the pipeline closure, SWD discharged volumes that exceeded self-imposed pumping limits. Doing so ensured the lagoons were not in danger of overtopping. This caused an arsenic loading exceedance during the discharge on January 18.

SWD is obligated to implement corrective actions specified in the Revised Compliance Order issued by KCIW on 10/29/19. The development and implementation of corrective actions outlined in that document continue.

Docusign Envelope ID: CBADA4CB-EDF0-48A3-8EA6-CD46845F6DAC

14-Day Report for Discharge or Permit Violation

2. Date and Time King County Notified: (requirement is within 24 hours of learning of violation unless event was spill or slug discharge then must have notified immediately)

Arsenic

Exceedance Date	Aware Date	Notification Date & Time	Notification Method	Recipient(s)
1/07/25	01/27/25	01/27/25 @ 16:52	Email	Girard Arnaud, info.KCIW@kingcounty.gov
1/18/25	02/03/25	02/03/25 @ 14:57	Email	Girard Arnaud, info.KCIW@kingcounty.gov

3. Corrective Actions Taken: (corrective actions taken to respond to the violation and ensure ongoing compliance.)

Arsenic

On 02/01/2025, KCSWD reinstated self-imposed pumping limits to maximize compliance with regulatory permit limits. We will continue to monitor arsenic concentrations closely to inform allowable discharge volumes.

KCSWD will continue to communicate circumstances that deviate from our routine discharge procedures to ensure there is no release (overtop) from our leachate lagoons and other secondary onsite storage.

A pilot-scale membrane bioreactor (MBR) commissioning was performed, and a study commenced January 31 at Cedar Hills Regional Landfill. The MBR system is treating samples of leachate from areas 5/6/7. The 13-week pilot study will evaluate effectiveness of MBR as a pretreatment technology to prepare landfill leachate for possible reverse osmosis (RO) treatment to reduce arsenic concentrations. This will help inform any future RO system development.

4. If discharge violation, enter follow-up sample collection date and results: (may use subsequent self-monitoring sample if collected and analyzed within 14 days of learning of violation)

Exceedance Date	Aware Date	Resample Date(s)	Parameter	Loading Resample Result (lbs/day)	Compliant?
1/07/25	01/27/25	01/09/25	Arsenic Loading	0.2636	Yes
1/18/25	02/03/25	01/22/25	Arsenic Loading	0.2621	Yes

ADDITIONAL SHEETS ATTACHED: oYES x NO

Docusign Envelope ID: CBADA4CB-EDF0-48A3-8EA6-CD46845F6DAC

14-Day Report for Discharge or Permit Violation

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information 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.

NAME: Jennifer Keune

SIGNATURE: DocuSigned by: Jennifer Keune 7D5EC0A1C2744A... DATE: Feb 13, 2025

TITLE: KCSWD Supervisor

Authorized Representative / Designated Authorized Representative*

(Please circle one of the above)

**All user reports must be signed by an authorized representative of the industrial user. "Authorized representative of industrial user" is defined by King County Code 28.82.050. If you are designated, a current Delegation of Signatory Authority must be on file at King County or completed and attached to this form.*

Please return this form and attachments to:

King County Industrial Waste **130 Nickerson Street – Suite 200**
Seattle, WA 98109-1658 **Fax: 206-263-3001**
-or- Email a signed PDF to: info.KCIW@kingcounty.gov

Docusign Envelope ID: CBADA4CB-EDF0-48A3-8EA6-CD46845F6DAC

14-Day Report for Discharge or Permit Violation

From general permit language

1. When monitoring data shows a violation, the permittee shall:

    a. Take immediate action to stop the violation and notify KCIW within 24 hours of learning of the violation.
    b. Collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.
    c. Submit a written report within 14 days of learning of the violation (*14-Day Report*). The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

2. In the event the permittee is unable to comply with any of the conditions of this permit because of a breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature, the permittee shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
    b. Immediately notify the emergency King County contact in section S1 so steps can be taken to prevent damage to the sewerage system.
    c. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent a recurrence.

From Section D of Major Discharge Authorizations

1. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem
    b. Immediately notify KCIW so steps can be taken to prevent damage to the sewer system
    c. Submit a written report within 14 days describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence

For SIU's Spills and Slug Discharges (from Permit language)

The Permittee shall notify King County Industrial Waste immediately in the event of a spill or slug discharge to the sanitary sewer. A written report regarding the cause of the spill and/or slug discharge shall be submitted to King County within five (5) days of date of occurrence. The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

March 14, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD) DS

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of February 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 2/5/25, 2/6/25, 2/11/25, 2/13/25, 2/18/25, 2/20/25, 2/25/25, and 2/27/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 2/7-2/14)
- Leachate Hauling Report (for February)

The following exceedances occurred during the month of January:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	2/18/25	3/06/25	3/06/25 @ 17:38
Arsenic Loading	2/20/25	3/06/25	3/06/25 @ 17:38
Arsenic Loading	2/25/25	3/06/25	3/06/25 @ 17:38
Arsenic Loading	2/27/25	3/06/25	3/06/25 @ 17:38

All other results met permit-specified limits.

Per KCIW guidance, details regarding February'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 (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Laura Belt, Engineer IV, KCSWD
Dan Swope, Engineer III, KCSWD
Grant Dornfeld, Engineer II, KCSWD

Printed on recycled paper

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** **February 2025**

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

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

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1													308300	
2													309000	
3													340200	
4													0	
5	C		0.0717	0.1846									308700	
6	C	8.42	0.0718	0.1846	<0.0005	0.0007	0.0915	0.2353	0.0079	0.0203	<0.001	0.00130	308300	
7													0	
8													308300	
9													345100	
10													307700	
11	C	8.45	0.0719	0.1818	<0.0005	0.0006	0.0914	0.2310	0.00816	0.0206	<0.001	0.00126	303100	
12													300300	
13	C		0.072	0.0221									36800	
14													370200	
15													374500	
16													382600	
17													375700	
18	C	8.26	0.0749	0.2827	<0.0005	0.0009	0.0908	0.3427	0.00723	0.0273	<0.001	0.00189	452500	
19													274400	
20	C		0.0782	0.2973									455800	
21													458100	
22													621300	
23													624100	
24													626700	
25	C	8.33	0.0631	0.3306	<0.0005	0.0013	0.0779	0.4082	0.00872	0.0457	0.0001	0.00522	628300	
26													882800	
27	C		0.0586	0.2998									613400	
28													626600	
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: Mar 14, 2025

Name and Signature of Principal Executive or Authorized Agent Date

Monthly Min pH	8.26	2/18/25	Total Monthly Flow (gallons) 10,942,800
Monthly Max pH	8.45	2/11/25	Maximum Daily Flow 882,800

2/26/2025

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** February 2025

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

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

Sample Date (circle)	Sample Type*	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1													
2													
3													
4													
5													
6	C	<0.0001	0.00013	0.084	0.216	<0.0004	0.0005	0.13	0.334	<0.1	673	.11	
7													
8													
9													
10													
11	C	<0.0001	0.00013	0.083	0.210	<0.0004	0.0005	0.129	0.326	<0.1			
12													
13													
14													
15													
16													
17													
18	C	<0.0001	0.00019	0.0808	0.305	<0.0004	0.0008	0.135	0.509	<0.1			
19													
20													
21													
22													
23													
24													
25	C	<0.0001	0.00026	0.0698	0.366	<0.0004	0.0010	0.133	0.697	<0.1			
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:
Jennifer Hume
Signature of Principal Executive or Authorized Agent

Mar 14, 2025
Date

Name and Official Title (Type or Print)

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** February 2025

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2					
3					
4					
5					
6					
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15					
16					
17					
18					
19					
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22					
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29					
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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:
Jennifer Yuma
Name and Signature of Principal Executive or Authorized Agent

Mar 14, 2025
Date

Monthly **MAX** 0 Date 2/7/25-2/14/25

Monthly **AVG** 0

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

February 14, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250205P	**2/5/2025**	**18665**
LEPS250206P	**2/6/2025**	**18664**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected February 5 and 6, 2025.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receiving Comments
No sample receiving anomalies were observed.

Conventionals QC Information
All calculable QC results for conventionals parameters were within laboratory control limits.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

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Sample Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/14/2025
Report Group: CHLS-P_021325

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

Client Sample ID: **LEPS250206P**
SDG / Lab Sample ID: **18664 / L85459-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/06/2025**
Login Date: **02/06/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250205P**
SDG / Lab Sample ID: **18665 / L85407-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/05/2025**
Login Date: **02/06/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/14/2025
Report Group: CHLS-P_021325

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

Client Sample ID: **LEPS250206P**
CoC / Lab Sample ID: **18664 / L85459-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/06/2025**
Login Date: **02/06/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	10000	mg/L	673		20	100		02/10/2025	02/10/2025	WG198730
Nitrate + Nitrite as N	10	mg/L	.11	T	.1	.4		02/10/2025	02/10/2025	WG198730

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/07/2025	02/10/2025	WG198703
Aluminum, Total	10	mg/L	.634		.0506	.0506		02/10/2025	02/11/2025	WG198712
Antimony, Total	10	mg/L	.00977		.00303	.00303		02/10/2025	02/11/2025	WG198712
Arsenic, Total	10	mg/L	.0718		.000506	.000506	1	02/10/2025	02/11/2025	WG198712
Barium, Total	10	mg/L	.0778		.00506	.00506		02/10/2025	02/11/2025	WG198712
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		02/10/2025	02/11/2025	WG198712
Cadmium, Total	10	mg/L	<.000506	U	.000506	.000506	0.5	02/10/2025	02/11/2025	WG198712
Calcium, Total	10	mg/L	63		.506	.506		02/10/2025	02/11/2025	WG198712
Chromium, Total	10	mg/L	.0915		.00202	.00202	2.75	02/10/2025	02/11/2025	WG198712
Cobalt, Total	10	mg/L	.0195		.000506	.000506		02/10/2025	02/11/2025	WG198712
Copper, Total	10	mg/L	.0079		.00202	.00202	3	02/10/2025	02/11/2025	WG198712
Iron, Total	10	mg/L	6.06		.101	.101		02/10/2025	02/11/2025	WG198712
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	02/10/2025	02/11/2025	WG198712
Magnesium, Total	10	mg/L	50.5		.506	.506		02/10/2025	02/11/2025	WG198712
Manganese, Total	10	mg/L	.368		.00101	.00101		02/10/2025	02/11/2025	WG198712
Nickel, Total	10	mg/L	.084		.00101	.00101	2.5	02/10/2025	02/11/2025	WG198712
Phosphorus, Total	10	mg/L	4.18		1.01	1.01		02/10/2025	02/11/2025	WG198712
Potassium, Total	10	mg/L	292		1.01	1.01		02/10/2025	02/11/2025	WG198712
Selenium, Total	10	mg/L	<.00506	U	.00506	.00506		02/10/2025	02/11/2025	WG198712
Silver, Total	10	mg/L	<.000405	U	.000405	.000405	1	02/10/2025	02/11/2025	WG198712
Sodium, Total	10	mg/L	780		1.01	1.01		02/10/2025	02/11/2025	WG198712
Thallium, Total	10	mg/L	<.000759	U	.000759	.000759		02/10/2025	02/11/2025	WG198712
Tin, Total	10	mg/L	.0069		.00506	.00506		02/10/2025	02/11/2025	WG198712
Vanadium, Total	10	mg/L	.0267		.000759	.000759		02/10/2025	02/11/2025	WG198712
Zinc, Total	10	mg/L	.13		.00506	.00506	5	02/10/2025	02/11/2025	WG198712

Client Sample ID: **LEPS250205P**
CoC / Lab Sample ID: **18665 / L85407-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/05/2025**
Login Date: **02/06/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0717		.000515	.000515	1	02/10/2025	02/11/2025	WG198712

Target Parameter Count for Report Group: 28

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Quality Control Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

Workgroup: WG198730 Dissolved Nutrients

MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.002	0.01	mg/L		U

MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrate Nitrogen	0.01	0.04	mg/L		U

MB:WG198730-1 Matrix: BLANK WTR Listtype:CVORTHOP Method:SM4500-P-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Orthophosphate Phosphorus	0.0005	0.002	mg/L		U

SB:WG198730-3 MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0399	100		80--120

SB:WG198730-3 MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1.02	102		80--120

SB:WG198730-3 MB:WG198730-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	U	0.7	0.704	101		80--120

SB:WG198730-3 MB:WG198730-1 Matrix: BLANK WTR Listtype:CVORTHOP Method:SM4500-P-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Orthophosphate Phosphorus	0.0005	0.002	mg/L	U	0.02	0.0203	101		80--120

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

LCS:WG198730-4 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.05	0.0558	112		85--115

LCS:WG198730-4 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	0.991	99		85--115

LCS:WG198730-4 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.8	0.792	99		85--115

LCS:WG198730-4 Matrix: BLANK WTR Listtype:CVORTHOP Method:SM4500-P-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Orthophosphate Phosphorus	0.0005	0.002	mg/L	0.02	0.0181	91		85--115

LD:WG198730-5 L85416-18 Matrix: SALT WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421250ON Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.0024			0--20

MS:WG198730-6 L85416-18 Matrix: SALT WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421250ON Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0406	102		75--125

LD:WG198730-7 L85451-1 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-VAGW Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	U			0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

LD:WG198730-7 L85451-1 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421422-VAGW Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.023	0.023			0--20

MS:WG198730-8 L85451-1 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-VAGW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0364	91		75--125

MS:WG198730-8 L85451-1 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421422-VAGW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.023	0.7	0.672	93		75--125

LD:WG198730-9 L85457-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	20	100	mg/L	846	863	2		0--20

LD:WG198730-9 L85457-4 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.1	0.4	mg/L	0.97	0.956	1		0--20

LD:WG198730-9 L85457-4 Matrix: LEACHATE Listtype:CVORTHOP Method:SM4500-P-F Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Orthophosphate Phosphorus	0.05	0.2	mg/L	3.81	3.88	2		0--20

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King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

MS:WG198730-10 L85457-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	20	100	mg/L	846	0.04	1250	101		75--125

MS:WG198730-10 L85457-4 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.1	0.4	mg/L	0.97	1	10.4	94		75--125

MS:WG198730-10 L85457-4 Matrix: LEACHATE Listtype:CVORTHOP Method:SM4500-P-F Project:421422-CHLS-M Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Orthophosphate Phosphorus	0.05	0.2	mg/L	3.81	0.02	5.7	95		75--125

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

Workgroup: WG198703 Total & Dissolved Mercury by CVAA

MB:WG198703-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG198703-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198703-2 MB:WG198703-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.982	98		85--115

MSD:WG198703-4 MS:WG198703-3 L85456-4 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.95	98		75--125	2	1.98	99		1		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

Workgroup: WG198712 Total Metals by ICPMS

MB:WG198712-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

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King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

SB:WG198712-2 MB:WG198712-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	18	90		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5290	106		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5130	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	201	101		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4890	98		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5130	103		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4810	96		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	19.8	99		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.1	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.5	102		85--115
Iron, Total	5	10	ug/L	<QL	5000	5130	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.1	105		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22.1	110		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22	110		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.1	106		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20	100		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	19.9	99		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.8	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	19.6	98		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.6	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.7	103		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.6	108		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115

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King County Environmental Laboratory QC Report

CHLS-P_021325 COC 18664, 18665

MSD:WG198712-4 MS:WG198712-3 L85459-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.979	0.979	ug/L	<QL	196	185	95		75--125	197	188	95		1		0--20
Sodium, Total	979	979	ug/L	780000	48900	840000		4xRule	75--125	49300	795000		4xRule	5		0--20
Magnesium, Total	489	489	ug/L	50500	48900	102000	105		75--125	49300	99100	99		3		0--20
Aluminum, Total	48.9	48.9	ug/L	634	1960	2650	103		75--125	1970	2630	101		1		0--20
Phosphorus, Total	979	979	ug/L	4180	48900	54100	102		75--125	49300	54400	102		1		0--20
Potassium, Total	979	979	ug/L	292000	48900	344000		4xRule	75--125	49300	339000		4xRule	1		0--20
Calcium, Total	489	489	ug/L	63000	48900	113000	101		75--125	49300	111000	97		2		0--20
Vanadium, Total	0.734	0.734	ug/L	26.7	196	225	102		75--125	197	226	101		0		0--20
Chromium, Total	1.96	1.96	ug/L	91.5	196	295	104		75--125	197	296	104		1		0--20
Manganese, Total	0.979	0.979	ug/L	368	196	573	105		75--125	197	571	103		0		0--20
Iron, Total	97.9	97.9	ug/L	6060	48900	55000	100		75--125	49300	54900	99		0		0--20
Cobalt, Total	0.489	0.489	ug/L	19.5	196	225	105		75--125	197	226	105		0		0--20
Nickel, Total	0.979	0.979	ug/L	84	196	299	110		75--125	197	296	108		1		0--20
Copper, Total	1.96	1.96	ug/L	7.9	196	223	110		75--125	197	224	110		1		0--20
Zinc, Total	4.89	4.89	ug/L	130	196	335	105		75--125	197	336	104		0		0--20
Arsenic, Total	0.489	0.489	ug/L	71.8	196	276	104		75--125	197	282	107		2		0--20
Selenium, Total	4.89	4.89	ug/L	<QL	196	202	103		75--125	197	208	105		3		0--20
Silver, Total	0.391	0.391	ug/L	<QL	196	190	97		75--125	197	189	96		0		0--20
Cadmium, Total	0.489	0.489	ug/L	<QL	196	193	99		75--125	197	194	98		0		0--20
Tin, Total	4.89	4.89	ug/L	6.9	196	179	88		75--125	197	185	90		3		0--20
Antimony, Total	2.94	2.94	ug/L	9.77	196	203	99		75--125	197	211	102		4		0--20
Barium, Total	4.89	4.89	ug/L	77.8	196	292	109		75--125	197	288	107		1		0--20
Thallium, Total	0.734	0.734	ug/L	<QL	196	206	105		75--125	197	202	102		2		0--20
Lead, Total	0.979	0.979	ug/L	<QL	196	202	103		75--125	197	201	102		0		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 2/6/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18664**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.1)

Lab No.	Sample ID	Date	Time
~~85453-1~~ RH 2/6/25	LEPS25Ø2Ø6P	2/6/25	123Ø
85459-1			

Project Site Test Reference

	12	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
	CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/AGW Appendix III SW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	CHSW-Q Cedar Hills SW Sta..E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS	HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.	CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
	GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT											
85453-1																													X											2
85459-1																																								Ø

Remarks: Diss Sulfide? Ø ppm

Relinquished By Sampler: Hannah Spear	Date: 2/6/25	Received By: R. Hooper	Date: 2/6/25
Sampler Signature: H. Spear	Time: 132Ø	Signature: R. Hooper	Time: 1320
Sampler Printed Name: KCSWD		Printed Name: KCSWD	
Company		Company	
Relinquished By: R. Hooper	Date: 2/6/25	Received By: Jason Kinnard	Date: 2625
Signature: R. Hooper	Time: 1450	Signature: Jason Kinnard	Time: 1450
Printed Name: KCSWD		Printed Name: KCEL	
Company		Company	

Observations/Comments/Special Instructions:

Total # of Bottles: 2

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85459-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE	1										
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 2	2										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.4 11.4 2.6	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-6-24 — Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25.1)

Receive Date: 2-6-24 — COC / SDG No.: 18664

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually Inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other: Nutrients field filtered			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: FEB 06 '24 15:08

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Chain of Custody Record

Environmental Monitoring Program

Date: 2/6/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18665**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85407-2	LEPS250205P	2/5/25	1200

Project Site Test Reference

GROUNDWATER											
2 CHGW Cedar Hills GW Qlty	2.1 CHGW Cedar Hills EP2 GW Qlty	4 CHGW/AGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qlty	6 DUGW Duvall GW Qlty	7 ENMGW Enumclaw GW Qlty	8 HDGW Hobart GW Qlty	9 HTGW Houghton GW Qlty	10 PUGW Puyallup GW Qlty	12 VAGW Vashon GW Qlty

SURFACE WATER														
14 CHSW-Q Cedar Hills SW Sta. E-1	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CHSW-E CH Emergency	17 CFSW Cedar Falls SW Qlty	18 DUSW Duvall SW Qlty	21 VASW Vashon SW Qlty-WEIRS	TS 52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER																
24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mtly	23+ CHLS-M_MOD CH Leachate Mods Mtly	23.1 CHLS-M_As CH Leachate As Semi-Ann.	PERMIT 25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (mnthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qlty
						X									

Lab No.	Number of Bottles	Remarks
85407-2	1	

Observations/Comments/Special Instructions:

Total # of Bottles: 1

	Date		Date
Relinquished By Sampler: Hannah Spear	2/6/25	Received By: R. Hooper	2/6/25
Sampler Signature: H. Spear	Time: 1320	Signature: R. Hooper	Time: 1320
Sampler Printed Name: KCSWD (Company)		Printed Name: KCSWD (Company)	
Relinquished By: R. Hooper	Date: 2/6/25	Received By: Jason Linnard	Date: 2/6/25
Signature: R. Hooper	Time: 1450	Signature: Jason Linnard	Time: 1450
Printed Name: KCSWD (Company)		Printed Name: KCEL (Company)	

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	85407										
	2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1	1									

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.9 | 2.1 | 2.1	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-5-25 — Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25.2)

Receive Date: 2-6-25 — COC / SDG No.: 18665

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: FEB 06 25 16:07

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

February 25, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250211P	**2/11/2025**	**18633**
LEPS250213P	**2/13/2025**	**18688**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected February 11 and 13, 2025.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/25/2025
Report Group: CHLS-P_021825

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

Client Sample ID: **LEPS250211P**
SDG / Lab Sample ID: **18633 / L85514-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/11/2025**
Login Date: **02/11/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250213P**
SDG / Lab Sample ID: **18688 / L85514-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/13/2025**
Login Date: **02/18/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 02/25/2025
Report Group: CHLS-P_021825

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

Client Sample ID: **LEPS250211P**
CoC / Lab Sample ID: **18633 / L85514-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/11/2025**
Login Date: **02/11/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/12/2025	02/13/2025	WG198752
Aluminum, Total	10	mg/L	.602		.05	.05		02/14/2025	02/18/2025	WG198778
Antimony, Total	10	mg/L	.0099		.003	.003		02/14/2025	02/18/2025	WG198778
Arsenic, Total	10	mg/L	.0719		.0005	.0005	1	02/14/2025	02/18/2025	WG198778
Barium, Total	10	mg/L	.0736		.005	.005		02/14/2025	02/18/2025	WG198778
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/14/2025	02/18/2025	WG198778
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	02/14/2025	02/18/2025	WG198778
Calcium, Total	10	mg/L	62		.5	.5		02/14/2025	02/18/2025	WG198778
Chromium, Total	10	mg/L	.0914		.002	.002	2.75	02/14/2025	02/18/2025	WG198778
Cobalt, Total	10	mg/L	.0195		.0005	.0005		02/14/2025	02/18/2025	WG198778
Copper, Total	10	mg/L	.00816		.002	.002	3	02/14/2025	02/18/2025	WG198778
Iron, Total	10	mg/L	6.29		.1	.1		02/14/2025	02/18/2025	WG198778
Lead, Total	10	mg/L	<.001	U	.001	.001	2	02/14/2025	02/18/2025	WG198778
Magnesium, Total	10	mg/L	50.7		.5	.5		02/14/2025	02/18/2025	WG198778
Manganese, Total	10	mg/L	.366		.001	.001		02/14/2025	02/18/2025	WG198778
Nickel, Total	10	mg/L	.083		.001	.001	2.5	02/14/2025	02/18/2025	WG198778
Phosphorus, Total	10	mg/L	4.13		1	1		02/14/2025	02/18/2025	WG198778
Potassium, Total	10	mg/L	290		1	1		02/14/2025	02/18/2025	WG198778
Selenium, Total	10	mg/L	<.005	U	.005	.005		02/14/2025	02/18/2025	WG198778
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	02/14/2025	02/18/2025	WG198778
Sodium, Total	10	mg/L	766		1	1		02/14/2025	02/18/2025	WG198778
Thallium, Total	10	mg/L	<.000751	U	.000751	.000751		02/14/2025	02/18/2025	WG198778
Tin, Total	10	mg/L	.00673		.005	.005		02/14/2025	02/18/2025	WG198778
Vanadium, Total	10	mg/L	.0263		.000751	.000751		02/14/2025	02/18/2025	WG198778
Zinc, Total	10	mg/L	.129		.005	.005	5	02/14/2025	02/18/2025	WG198778

Client Sample ID: **LEPS250213P**
CoC / Lab Sample ID: **18688 / L85514-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/13/2025**
Login Date: **02/18/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.072		.0005	.0005	1	02/19/2025	02/20/2025	WG198841

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Quality Control Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

Workgroup: WG198752 Total & Dissolved Mercury by CVAA

MB:WG198752-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG198752-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198752-2 MB:WG198752-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.992	99		85--115

MSD:WG198752-4 MS:WG198752-3 L85457-3 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.99	100		75--125	2	2.03	101		2		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

Workgroup: WG198778 Total Metals by ICPMS

MB:WG198778-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Molybdenum, Total	0.05	0.1	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

SB:WG198778-2 MB:WG198778-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	18.9	94		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5150	103		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5030	101		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	199	100		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4910	98		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5080	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4860	97		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.1	101		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.3	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.9	104		85--115
Iron, Total	5	10	ug/L	<QL	5000	5140	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.4	112		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.6	108		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.3	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.5	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20	100		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.1	100		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.1	100		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.7	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21.1	106		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.6	108		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.4	107		85--115

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

MSD:WG198778-4 MS:WG198778-3 L85514-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	200	188	94		75--125	201	195	97		4		0--20
Sodium, Total	1000	1000	ug/L	766000	50100	800000		4xRule	75--125	50300	821000		4xRule	3		0--20
Magnesium, Total	501	501	ug/L	50700	50100	103000	104		75--125	50300	101000	100		1		0--20
Aluminum, Total	50.1	50.1	ug/L	602	2000	2580	99		75--125	2010	2590	99		0		0--20
Phosphorus, Total	1000	1000	ug/L	4130	50100	54700	101		75--125	50300	54900	101		0		0--20
Potassium, Total	1000	1000	ug/L	290000	50100	336000		4xRule	75--125	50300	337000		4xRule	0		0--20
Calcium, Total	501	501	ug/L	62000	50100	111000	98		75--125	50300	111000	98		0		0--20
Vanadium, Total	0.752	0.752	ug/L	26.3	200	227	100		75--125	201	232	102		2		0--20
Chromium, Total	2	2	ug/L	91.4	200	298	103		75--125	201	301	104		1		0--20
Manganese, Total	1	1	ug/L	366	200	576	105		75--125	201	579	105		0		0--20
Iron, Total	100	100	ug/L	6290	50100	55800	99		75--125	50300	56700	100		2		0--20
Cobalt, Total	0.501	0.501	ug/L	19.5	200	226	103		75--125	201	234	107		4		0--20
Nickel, Total	1	1	ug/L	83	200	295	106		75--125	201	289	102		2		0--20
Copper, Total	2	2	ug/L	8.16	200	221	106		75--125	201	228	109		3		0--20
Zinc, Total	5.01	5.01	ug/L	129	200	341	106		75--125	201	339	105		0		0--20
Arsenic, Total	0.501	0.501	ug/L	71.9	200	275	101		75--125	201	279	103		1		0--20
Selenium, Total	5.01	5.01	ug/L	<QL	200	204	102		75--125	201	208	104		2		0--20
Silver, Total	0.401	0.401	ug/L	<QL	200	194	97		75--125	201	193	96		1		0--20
Cadmium, Total	0.501	0.501	ug/L	<QL	200	199	99		75--125	201	199	99		0		0--20
Tin, Total	5.01	5.01	ug/L	6.73	200	174	84		75--125	201	176	84		1		0--20
Antimony, Total	3.01	3.01	ug/L	9.9	200	213	101		75--125	201	216	103		2		0--20
Barium, Total	5.01	5.01	ug/L	73.6	200	287	107		75--125	201	286	105		1		0--20
Thallium, Total	0.752	0.752	ug/L	<QL	200	209	104		75--125	201	207	103		1		0--20
Lead, Total	1	1	ug/L	<QL	200	211	105		75--125	201	211	105		0		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

Workgroup: WG198841 Total Metals by ICPMS

MB:WG198841-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Mercury, Total	0.025	0.05	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

SB:WG198841-2 MB:WG198841-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	21.1	105		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5200	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5180	104		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5160	103		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4770	95		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	19	95		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.2	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5220	104		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.9	104		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.6	108		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.8	104		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.7	99		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.4	97		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.6	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Mercury, Total	0.025	0.05	ug/L	<QL	0.5	0.574	115		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	22.1	111		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_021825 COC 18633 18688

MSD:WG198841-4 MS:WG198841-3 L85451-9 Matrix: GRND WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-VAGW Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.1	0.1	ug/L	<QL	20	21.3	106		75--125	20	20.4	102		4		0--20
Sodium, Total	100	100	ug/L	5250	5000	10600	107		75--125	5000	10500	105		1		0--20
Magnesium, Total	50	50	ug/L	9800	5000	15200	108		75--125	5000	15000	105		1		0--20
Potassium, Total	100	100	ug/L	1500	5000	6720	104		75--125	5000	6540	101		3		0--20
Calcium, Total	50	50	ug/L	9850	5000	14700	97		75--125	5000	14500	94		1		0--20
Vanadium, Total	0.075	0.075	ug/L	4.13	20	23.9	99		75--125	20	24	99		1		0--20
Chromium, Total	0.2	0.2	ug/L	2.83	20	24.2	107		75--125	20	23.9	106		1		0--20
Manganese, Total	0.1	0.1	ug/L	0.107	20	20.9	104		75--125	20	20.6	102		2		0--20
Iron, Total	10	10	ug/L	<QL	5000	5270	105		75--125	5000	5220	104		1		0--20
Cobalt, Total	0.05	0.05	ug/L	<QL	20	21.2	106		75--125	20	21.2	106		0		0--20
Nickel, Total	0.1	0.1	ug/L	0.298	20	21.7	107		75--125	20	21.8	107		0		0--20
Copper, Total	0.2	0.2	ug/L	<QL	20	22	110		75--125	20	21.7	109		1		0--20
Zinc, Total	0.5	0.5	ug/L	<QL	20	21	105		75--125	20	20.8	104		1		0--20
Arsenic, Total	0.05	0.05	ug/L	1.67	20	21.7	100		75--125	20	21.7	100		0		0--20
Selenium, Total	0.5	0.5	ug/L	<QL	20	20.7	103		75--125	20	20.5	103		1		0--20
Silver, Total	0.04	0.04	ug/L	<QL	20	19.7	99		75--125	20	19.5	98		1		0--20
Cadmium, Total	0.05	0.05	ug/L	<QL	20	20.6	103		75--125	20	20.6	103		0		0--20
Antimony, Total	0.3	0.3	ug/L	<QL	20	20	100		75--125	20	20.1	101		1		0--20
Barium, Total	0.5	0.5	ug/L	3.22	20	23.6	102		75--125	20	23.6	102		0		0--20
Mercury, Total	0.05	0.05	ug/L	<QL	0.5	0.527	105		75--125	0.5	0.532	106		1		0--20
Thallium, Total	0.075	0.075	ug/L	<QL	20	22.2	111		75--125	20	21.9	109		1		0--20
Lead, Total	0.1	0.1	ug/L	<QL	20	21.8	109		75--125	20	21.4	107		2		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 2/11/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18633**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85514-1	LEPS250211P	2/11/25	1200

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85514-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.7 / 6 / 1.6	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-11-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 2-11-25 COC / SDG No.: 186333

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: FEB 11 '25 14:11

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Chain of Custody Record

Environmental Monitoring Program

Date: 2/14/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18688**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85514-2	LEPS25LD213P	2/13/25	1200

Project Site Test Reference

GROUNDWATER												
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty		
2	2.1	4	38	5	6	7	8	9	10	12		

SURFACE WATER												
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS						
14	16	42	49.1	17	18	21						

TS							
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES		
52	53	54	56	57	58		

LEACHATE/WASTEWATER												
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.									
24	23	23+	23.1									

PERMIT												
CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	
25	25.1	25.2	26	20	27	28	29	30	31	32	34	
		X										

Lab No.	Number of Bottles	Remarks
85514-2	1	

Total # of Bottles: 1

Observations/Comments/Special Instructions:
*Sample secured until delivery

Relinquished By Sampler: J. Patten	Date: 2/14/25	Received By: [illegible]	Date: 2/15/25	
Sampler Signature: J. Patten		Signature: I. Rivera		
Sampler Printed Name: KCSWD	Time: 1500*	Printed Name: KCSWD	Time: 0630	
Company		Company		
Relinquished By: [illegible]	Date: 2/18/25	Received By: [illegible]	Date: 2-18-25	
Signature: I. Rivera		Signature: Jason Kinard		
Printed Name: KCSWD	Time: 1106	Printed Name: KCEC	Time: 1106	
Company		Company		

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

LR 2/18

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85514-2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 12:01.9	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-13-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(252)

Receive Date: 2-18-25 COC / SDG No.: 18685

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: FEB 18 '25 11:18

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

March 6, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250218P	**2/18/2025**	**18681**
LEPS250220P	**2/20/2025**	**18679**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected February 18 and 20, 2025.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits with the following exceptions.

During **Total Metals** analysis, the recovery of ***total silver*** from the matrix spike (MS) exceeded the lower laboratory control limit. The MS duplicate (MSD) relative percent difference (RPD) for *total silver* exceeded the laboratory control limit. A SWD sample included in a different report group was used to prepare the MS/MSD. Sample results included in this report were not qualified based on these exceedances.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,

Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/06/2025
Report Group: CHLS-P_022725

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

Client Sample ID: **LEPS250220P**
SDG / Lab Sample ID: **18679 / L85527-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **02/20/2025**
Login Date: **02/21/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250218P**
SDG / Lab Sample ID: **18681 / L85527-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **02/18/2025**
Login Date: **02/20/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/06/2025
Report Group: CHLS-P_022725

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

Client Sample ID: **LEPS250220P**
CoC / Lab Sample ID: **18679 / L85527-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/20/2025**
Login Date: **02/21/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0782		.000514	.000514	1	02/24/2025	02/25/2025	WG198900

Client Sample ID: **LEPS250218P**
CoC / Lab Sample ID: **18681 / L85527-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/18/2025**
Login Date: **02/20/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.51	D	.0501	.0501		02/21/2025	02/27/2025	WG198887
Antimony, Total	10	mg/L	.00955		.00301	.00301		02/21/2025	02/26/2025	WG198887
Arsenic, Total	10	mg/L	.0749		.000501	.000501	1	02/21/2025	02/26/2025	WG198887
Barium, Total	10	mg/L	.0783		.00501	.00501		02/21/2025	02/26/2025	WG198887
Beryllium, Total	10	mg/L	<.001	U	.001	.001		02/21/2025	02/26/2025	WG198887
Cadmium, Total	10	mg/L	<.000501	U	.000501	.000501	0.5	02/21/2025	02/26/2025	WG198887
Calcium, Total	10	mg/L	66.9		.501	.501		02/21/2025	02/26/2025	WG198887
Chromium, Total	10	mg/L	.0908		.002	.002	2.75	02/21/2025	02/26/2025	WG198887
Cobalt, Total	10	mg/L	.0192		.000501	.000501		02/21/2025	02/26/2025	WG198887
Copper, Total	10	mg/L	.00723		.002	.002	3	02/21/2025	02/26/2025	WG198887
Iron, Total	10	mg/L	6.36	D	.1	.1		02/21/2025	02/27/2025	WG198887
Lead, Total	10	mg/L	<.001	U	.001	.001	2	02/21/2025	02/26/2025	WG198887
Magnesium, Total	10	mg/L	51.7		.501	.501		02/21/2025	02/26/2025	WG198887
Manganese, Total	10	mg/L	.424		.001	.001		02/21/2025	02/26/2025	WG198887
Nickel, Total	10	mg/L	.0808		.001	.001	2.5	02/21/2025	02/26/2025	WG198887
Phosphorus, Total	10	mg/L	3.83		1	1		02/21/2025	02/26/2025	WG198887
Potassium, Total	10	mg/L	300		1	1		02/21/2025	02/26/2025	WG198887
Selenium, Total	10	mg/L	<.00501	U	.00501	.00501		02/21/2025	02/26/2025	WG198887
Silver, Total	10	mg/L	<.000401	DU	.000401	.000401	1	02/21/2025	02/27/2025	WG198887
Sodium, Total	10	mg/L	792		1	1		02/21/2025	02/26/2025	WG198887
Thallium, Total	10	mg/L	<.000751	U	.000751	.000751		02/21/2025	02/26/2025	WG198887
Tin, Total	10	mg/L	.00671		.00501	.00501		02/21/2025	02/26/2025	WG198887
Vanadium, Total	10	mg/L	.0271		.000751	.000751		02/21/2025	02/26/2025	WG198887
Zinc, Total	10	mg/L	.135		.00501	.00501	5	02/21/2025	02/26/2025	WG198887
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/21/2025	02/25/2025	WG198896

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Quality Control Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_022725 COC 18679, 18681

Workgroup: WG198887 Total Metals & Hardness

MB:WG198887-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Hardness, Calc	0.165	0.331	mg CaCO3/L		<QL

MB:WG198887-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SB:WG198887-2 MB:WG198887-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Hardness, Calc	0.165	0.331	mg CaCO3/L	<QL	33.1	34	103		85--115

SB:WG198887-2 MB:WG198887-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.4	102		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5220	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5160	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	207	103		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5040	101		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5290	106		85--115
Calcium, Total	25	50	ug/L	<QL	5000	5110	102		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.7	103		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115
Iron, Total	5	10	ug/L	<QL	5000	5180	104		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.9	104		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.8	109		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22	110		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.5	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.6	103		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.7	103		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.5	97		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.1	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.2	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	22.4	112		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	22.1	110		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	22.5	112		85--115

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

MSD:WG198887-4 MS:WG198887-3 L85456-1 Matrix: LEACHATE Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Hardness, Calc	3.29	3.29	mg CaCO3/L	649	33.1	999		4xRule	75--125	33.1	1010		4xRule	1		0--20

MSD:WG198887-4 MS:WG198887-3 L85456-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.994	0.994	ug/L	<QL	199	205	103		75--125	199	208	105		1		0--20
Sodium, Total	994	994	ug/L	2110000	49700	2150000		4xRule	75--125	49700	2170000		4xRule	1		0--20
Magnesium, Total	497	497	ug/L	88000	49700	137000	99		75--125	49700	139000	103		1		0--20
Aluminum, Total	49.7	49.7	ug/L	756	1990	2710	98		75--125	1990	2840	105		5		0--20
Potassium, Total	994	994	ug/L	697000	49700	750000		4xRule	75--125	49700	768000		4xRule	2		0--20
Calcium, Total	497	497	ug/L	115000	49700	174000	119		75--125	49700	174000	119		0		0--20
Vanadium, Total	0.746	0.746	ug/L	106	199	303	99		75--125	199	308	102		2		0--20
Chromium, Total	1.99	1.99	ug/L	228	199	428	101		75--125	199	431	102		1		0--20
Manganese, Total	0.994	0.994	ug/L	892	199	1090		4xRule	75--125	199	1140		4xRule	4		0--20
Iron, Total	99.4	99.4	ug/L	4420	49700	52600	97		75--125	49700	54300	100		3		0--20
Cobalt, Total	0.497	0.497	ug/L	56.9	199	257	101		75--125	199	257	101		0		0--20
Nickel, Total	0.994	0.994	ug/L	224	199	423	101		75--125	199	423	100		0		0--20
Copper, Total	1.99	1.99	ug/L	4.7	199	207	102		75--125	199	206	101		1		0--20
Zinc, Total	4.97	4.97	ug/L	361	199	562	101		75--125	199	560	100		0		0--20
Arsenic, Total	0.497	0.497	ug/L	239	199	450	106		75--125	199	453	107		1		0--20
Selenium, Total	4.97	4.97	ug/L	<QL	199	206	103		75--125	199	212	107		3		0--20
Silver, Total	0.398	0.398	ug/L	<QL	199	29.8	15	*	75--125	199	176	88		142	*	0--20
Cadmium, Total	0.497	0.497	ug/L	<QL	199	190	96		75--125	199	189	95		0		0--20
Tin, Total	4.97	4.97	ug/L	25.5	199	181	78		75--125	199	188	82		4		0--20
Antimony, Total	2.98	2.98	ug/L	11.3	199	164	77		75--125	199	189	89		14		0--20
Barium, Total	4.97	4.97	ug/L	331	199	531	101		75--125	199	529	99		0		0--20
Thallium, Total	0.746	0.746	ug/L	<QL	199	213	107		75--125	199	209	105		2		0--20
Lead, Total	0.994	0.994	ug/L	1.93	199	208	104		75--125	199	205	102		1		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_022725 COC 18679, 18681

MSD:WG198887-6 MS:WG198887-5 L85512-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-VALS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.994	0.994	ug/L	<QL	199	204	103		75--125	198	202	102		1		0--20
Sodium, Total	994	994	ug/L	21600	49700	72700	103		75--125	49400	73700	105		1		0--20
Magnesium, Total	497	497	ug/L	11600	49700	63200	104		75--125	49400	63800	106		1		0--20
Aluminum, Total	49.7	49.7	ug/L	90.3	1990	2160	104		75--125	1980	2170	105		1		0--20
Phosphorus, Total	994	994	ug/L	<QL	49700	51300	103		75--125	49400	51900	105		1		0--20
Potassium, Total	994	994	ug/L	5570	49700	58300	106		75--125	49400	58000	106		1		0--20
Calcium, Total	497	497	ug/L	33900	49700	85200	103		75--125	49400	85500	104		0		0--20
Vanadium, Total	0.746	0.746	ug/L	<QL	199	207	104		75--125	198	207	105		0		0--20
Chromium, Total	1.99	1.99	ug/L	<QL	199	213	107		75--125	198	214	109		1		0--20
Manganese, Total	0.994	0.994	ug/L	401	199	612	106		75--125	198	616	109		1		0--20
Iron, Total	99.4	99.4	ug/L	200	49700	52200	105		75--125	49400	52700	106		1		0--20
Cobalt, Total	0.497	0.497	ug/L	<QL	199	202	102		75--125	198	208	105		3		0--20
Nickel, Total	0.994	0.994	ug/L	5.84	199	213	104		75--125	198	218	107		2		0--20
Copper, Total	1.99	1.99	ug/L	2.54	199	213	106		75--125	198	218	109		2		0--20
Zinc, Total	4.97	4.97	ug/L	8.7	199	216	104		75--125	198	218	106		1		0--20
Arsenic, Total	0.497	0.497	ug/L	1.21	199	204	102		75--125	198	207	104		1		0--20
Selenium, Total	4.97	4.97	ug/L	<QL	199	208	105		75--125	198	208	105		0		0--20
Silver, Total	0.398	0.398	ug/L	<QL	199	199	100		75--125	198	196	99		2		0--20
Cadmium, Total	0.497	0.497	ug/L	<QL	199	198	100		75--125	198	197	100		0		0--20
Tin, Total	4.97	4.97	ug/L	<QL	199	201	101		75--125	198	201	102		0		0--20
Antimony, Total	2.98	2.98	ug/L	<QL	199	202	102		75--125	198	201	102		1		0--20
Barium, Total	4.97	4.97	ug/L	24.5	199	239	108		75--125	198	238	108		0		0--20
Thallium, Total	0.746	0.746	ug/L	<QL	199	222	112		75--125	198	219	111		1		0--20
Lead, Total	0.994	0.994	ug/L	<QL	199	219	110		75--125	198	217	110		1		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_022725 COC 18679, 18681

Workgroup: WG198896 Total Mercury

MB:WG198896-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198896-2 MB:WG198896-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.97	97		85--115

MSD:WG198896-4 MS:WG198896-3 L85512-3 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-VALS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.86	93		75--125	2	1.85	92		1		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_022725 COC 18679, 18681

Workgroup: WG198900 Total Arsenic by ICPMS

MB:WG198900-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG198900-2 MB:WG198900-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115

MSD:WG198900-4 MS:WG198900-3 L85527-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.497	0.497	ug/L	78.2	199	300	111		75--125	196	297	111		1		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 2/19/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18681**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85527-1	LEPS250218P	2/18/25	1400

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 855527 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.4 2.3 2.3	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-19-25 Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25)

Receive Date: 2-20-25 COC / SDG No.: 18681

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: FEB 20 '25 13:46

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Chain of Custody Record

Environmental Monitoring Program

Date: 2/21/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18679**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.2)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
05527-2	LEPS250220P	2/20/25	1400																															X									1	

GROUNDWATER: 2 CHGW Cedar Hills GW Qtly; 2.1 CHGW Cedar Hills EPZ GW Qtly; 4 CHGW/WAGW Appendix III GW; 38 CHGW-OS Cedar Hills GW Offsite; 5 CFGW Cedar Falls GW Qtly; 6 DUGW Duvall GW Qtly; 7 ENGW Enumclaw GW Qtly; 8 HOGW Hobart GW Qtly; 9 HTGW Houghton GW Qtly; 10 PUGW Puyallup GW Qtly; 12 VAGW Vashon GW Qtly

SURFACE WATER: 14 CHSW-Q Cedar Hills SW Sta. E-1; 16 CHSW-P Cedar Hills SW ISGP; 42 CHSW-TD Cedar Hills SW Top Deck; 49.1 CHSW-E CH Emergency; 17 CFSW Cedar Falls SW Qtly; 18 DUSW Duvall SW Qtly; 21 VASW Vashon SW Qtly-MEIRS

TS: 52 HTSW-P Houghton SW NPDES; 53 SHSW-P Shoreline SW NPDES; 54 FASW-P Factoria SW NPDES; 56 ENSW-P Enumclaw SW NPDES; 57 ALSW-P Algona SW NPDES; 58 VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER: 24 CHTW Cedar Hills Truckwash; 23 CHLS-M Cedar Hills Leachate Mthly; 23+ CHLS-M_MOD CH Leachate Mods Mthly; 23.1 CHLS-M_As CH Leachate As Semi-Ann.

PERMIT: 25 CHLS-P CH L Permit (wkly, 1st); 25.1 CHLS-P CH L Permit (mnthly); 25.2 CHLS-P CH L Permit (wkly, 2nd); 26 ALLS Algona WW Permit; 20 BLLS Bow Lake WW Permit; 27 ENLS Enumclaw WW Permit; 28 FALS Factoria WW Permit; 29 SRLS Shoreline WW Permit; 30 HTLS Houghton WW Permit; 31 RELS Renton WW Permit; 32 VALS-P Vashon WW Permit Tanker; 34 VALS-Q Vashon Leachate Qtly

Relinquished By Sampler: Hannah Spear H. Spear	Date: 2/21/25	Received By	Date
Sampler Signature		Signature	
Sampler Printed Name: KCSWD	Time: 1205	Printed Name	Time
Company		Company	
Relinquished By	Date	Received By: Jason Kinnaird KCE	Date: 2-21-25
Signature		Signature	
Printed Name	Time	Printed Name	Time: 1205
Company		Company	

Observations/Comments/Special Instructions:

* Arsenic Only

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	85527 -2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2 | 12223	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-20-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P (25.2)

Receive Date: 2-21-25 COC / SDG No.: 86779

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: FEB 21 '25 12:10

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

March 6, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250225P	**2/25/2025**	**18690**
LEPS250227P	**2/27/2025**	**19707**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected February 25 and 27, 2025.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/06/2025
Report Group: CHLS-P_030625

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

Client Sample ID: **LEPS250225P**
SDG / Lab Sample ID: **18690 / L85553-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/25/2025**
Login Date: **02/27/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250227P**
SDG / Lab Sample ID: **18707 / L85553-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/27/2025**
Login Date: **02/28/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/06/2025
Report Group: CHLS-P_030625

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

Client Sample ID: **LEPS250225P**
CoC / Lab Sample ID: **18690 / L85553-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/25/2025**
Login Date: **02/27/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		02/28/2025	02/28/2025	WG198989
Aluminum, Total	10	mg/L	.822		.0493	.0493		03/03/2025	03/05/2025	WG199029
Antimony, Total	10	mg/L	.00823		.00296	.00296		03/03/2025	03/05/2025	WG199029
Arsenic, Total	10	mg/L	.0631		.000493	.000493	1	03/03/2025	03/05/2025	WG199029
Barium, Total	10	mg/L	.0784		.00493	.00493		03/03/2025	03/05/2025	WG199029
Beryllium, Total	10	mg/L	<.000985	U	.000985	.000985		03/03/2025	03/05/2025	WG199029
Cadmium, Total	10	mg/L	<.000493	U	.000493	.000493	0.5	03/03/2025	03/05/2025	WG199029
Calcium, Total	10	mg/L	64.7		.493	.493		03/03/2025	03/05/2025	WG199029
Chromium, Total	10	mg/L	.0779		.00197	.00197	2.75	03/03/2025	03/05/2025	WG199029
Cobalt, Total	10	mg/L	.0169		.000493	.000493		03/03/2025	03/05/2025	WG199029
Copper, Total	10	mg/L	.00872		.00197	.00197	3	03/03/2025	03/05/2025	WG199029
Iron, Total	10	mg/L	6.14		.0985	.0985		03/03/2025	03/05/2025	WG199029
Lead, Total	10	mg/L	.000997		.000985	.000985	2	03/03/2025	03/05/2025	WG199029
Magnesium, Total	10	mg/L	45.4		.493	.493		03/03/2025	03/05/2025	WG199029
Manganese, Total	10	mg/L	.517		.000985	.000985		03/03/2025	03/05/2025	WG199029
Nickel, Total	10	mg/L	.0698		.000985	.000985	2.5	03/03/2025	03/05/2025	WG199029
Phosphorus, Total	10	mg/L	4		.985	.985		03/03/2025	03/05/2025	WG199029
Potassium, Total	10	mg/L	252		.985	.985		03/03/2025	03/05/2025	WG199029
Selenium, Total	10	mg/L	<.00493	U	.00493	.00493		03/03/2025	03/05/2025	WG199029
Silver, Total	10	mg/L	<.000394	U	.000394	.000394	1	03/03/2025	03/05/2025	WG199029
Sodium, Total	10	mg/L	670		.985	.985		03/03/2025	03/05/2025	WG199029
Thallium, Total	10	mg/L	<.000739	U	.000739	.000739		03/03/2025	03/05/2025	WG199029
Tin, Total	10	mg/L	.00639		.00493	.00493		03/03/2025	03/05/2025	WG199029
Vanadium, Total	10	mg/L	.0232		.000739	.000739		03/03/2025	03/05/2025	WG199029
Zinc, Total	10	mg/L	.133		.00493	.00493	5	03/03/2025	03/05/2025	WG199029

Client Sample ID: **LEPS250227P**
CoC / Lab Sample ID: **18707 / L85553-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **02/27/2025**
Login Date: **02/28/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0586		.000492	.000492	1	03/03/2025	03/05/2025	WG199029

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Quality Control Data

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_030625 COC 18690, 18707

Workgroup: WG198989 Total Mercury by CVAA

MB:WG198989-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG198989-2 MB:WG198989-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	1.01	101		85--115

MSD:WG198989-4 MS:WG198989-3 L85553-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.75	88		75--125	2	1.78	89		2		0--20

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_030625 COC 18690, 18707

Workgroup: WG199029 Total Metals by ICPMS

MB:WG199029-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_030625 COC 18690, 18707

SB:WG199029-2 MB:WG199029-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.6	98		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5220	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5250	105		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	201	101		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5000	100		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5230	105		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4980	100		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.2	101		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.1	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.3	101		85--115
Iron, Total	5	10	ug/L	<QL	5000	5130	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.6	103		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.5	107		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.7	99		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.8	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	19.4	97		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.8	99		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.2	96		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.4	107		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

King County Environmental Laboratory QC Report

CHLS-P_030625 COC 18690, 18707

MSD:WG199029-4 MS:WG199029-3 L85553-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.985	0.985	ug/L	<QL	197	194	99		75--125	196	194	99		0		0--20
Sodium, Total	985	985	ug/L	670000	49200	711000		4xRule	75--125	49000	705000		4xRule	1		0--20
Magnesium, Total	492	492	ug/L	45400	49200	94600	100		75--125	49000	93100	97		2		0--20
Aluminum, Total	49.2	49.2	ug/L	822	1970	2770	99		75--125	1960	2730	97		2		0--20
Phosphorus, Total	985	985	ug/L	4000	49200	53500	101		75--125	49000	53000	100		1		0--20
Potassium, Total	985	985	ug/L	252000	49200	299000		4xRule	75--125	49000	296000		4xRule	1		0--20
Calcium, Total	492	492	ug/L	64700	49200	113000	99		75--125	49000	112000	97		1		0--20
Vanadium, Total	0.739	0.739	ug/L	23.2	197	219	99		75--125	196	217	99		1		0--20
Chromium, Total	1.97	1.97	ug/L	77.9	197	278	101		75--125	196	276	101		1		0--20
Manganese, Total	0.985	0.985	ug/L	517	197	712	99		75--125	196	700	93		2		0--20
Iron, Total	98.5	98.5	ug/L	6140	49200	55100	100		75--125	49000	53700	97		3		0--20
Cobalt, Total	0.492	0.492	ug/L	16.9	197	219	103		75--125	196	217	102		1		0--20
Nickel, Total	0.985	0.985	ug/L	69.8	197	274	104		75--125	196	271	103		1		0--20
Copper, Total	1.97	1.97	ug/L	8.72	197	219	107		75--125	196	217	106		1		0--20
Zinc, Total	4.92	4.92	ug/L	133	197	334	102		75--125	196	326	99		2		0--20
Arsenic, Total	0.492	0.492	ug/L	63.1	197	261	100		75--125	196	256	99		2		0--20
Selenium, Total	4.92	4.92	ug/L	<QL	197	198	101		75--125	196	196	100		1		0--20
Silver, Total	0.394	0.394	ug/L	<QL	197	190	96		75--125	196	184	94		3		0--20
Cadmium, Total	0.492	0.492	ug/L	<QL	197	191	97		75--125	196	187	95		2		0--20
Tin, Total	4.92	4.92	ug/L	6.39	197	174	85		75--125	196	172	85		1		0--20
Antimony, Total	2.95	2.95	ug/L	8.23	197	204	100		75--125	196	199	97		3		0--20
Barium, Total	4.92	4.92	ug/L	78.4	197	280	102		75--125	196	279	102		0		0--20
Thallium, Total	0.739	0.739	ug/L	<QL	197	202	102		75--125	196	200	102		1		0--20
Lead, Total	0.985	0.985	ug/L	0.997	197	205	104		75--125	196	203	103		1		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 2/26/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18690**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25)

Lab No.	Sample ID	Date	Time	Project Site Test Reference	Number of Bottles	Remarks
85553-1	LEPS250225P	2/25/25	1000	CHLS-P(25)	1	Diss. Sulfide? 0 ppm

Project Site Test Reference columns:

GROUNDWATER: 2 CHGW Cedar Hills GW Qlty; 2.1 CHGW Cedar Hills EPZ GW Qlty; 4 CHGW/AGW Appendix III GW; 38 CHGW-OS Cedar Hills GW Offsite; 5 CFGW Cedar Falls GW Qlty; 6 DUGW Duvall GW Qlty; 7 ENGW Enumclaw GW Qlty; 8 HOGW Hobart GW Qlty; 9 HTGW Houghton GW Qlty; 10 PUGW Puyallup GW Qlty; 12 VAGW Vashon GW Qlty

SURFACE WATER: 14 CHSW-Q Cedar Hills SW Sta. E-1; 16 CHSW-P Cedar Hills SW ISGP; 42 CHSW-TD Cedar Hills SW Top Deck; 49.1 CHSW-E CH Emergency; 17 CFSW Cedar Falls SW Qlty; 18 DUSW Duvall SW Qlty; 21 VASW Vashon SW Qlty-WEIRS

TS: 52 HTSW-P Houghton SW NPDES; 53 SHSW-P Shoreline SW NPDES; 54 FASW-P Factoria SW NPDES; 56 ENSW-P Enumclaw SW NPDES; 57 ALSW-P Algona SW NPDES; 58 VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER: 24 CHTW Cedar Hills Truckwash; 23 CHLS-M Cedar Hills Leachate Mthly; 23+ CHLS-M_MOD CH Leachate Mods Mthly; 23.1 CHLS-M_As CH Leachate As Sent-Ann.

PERMIT: 25 CHLS-P CH L Permit (wkly, 1st); 25.1 CHLS-P CH L Permit (mnthly); 25.2 CHLS-P CH L Permit (wkly, 2nd); 26 ALLS Algona WW Permit; 20 BLLS Bow Lake WW Permit; 27 ENLS Enumclaw WW Permit; 28 FALS Factoria WW Permit; 29 SRLS Shoreline WW Permit; 30 HTLS Houghton WW Permit; 31 RELS Renton WW Permit; 32 VALS-P Vashon WW Permit Tanker; 34 VALS-Q Vashon Leachate Qlty

X = CHLS-P (25) CH L Permit (wkly, 1st)

Relinquished By Sampler: Hannah Spear
Sampler Signature: H. Spear
Sampler Printed Name: KCSWD
Company
Date: 2/27/25
Time: 0800

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Jason Kinnard
Signature: Jason Kinnard
Printed Name: KCEL
Company
Date: 2/27/25
Time: 1350

Observations/Comments/Special Instructions:

Secured in locked vehicle overnight.

Custody sealed 2/27/25 @ 0800

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85553-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.7 M.M.6	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2-25-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 2-27-25 COC / SDG No.: 81690

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

FEB 27 '25 14:42

SM Signature: _____

Date / Time Completed: _____

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Chain of Custody Record

Environmental Monitoring Program

Date: 2/28/25

Department of
Natural Resources and Parks
Solid Waste Division

No. **18707**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.2)

Lab No.	Sample ID	Date	Time
85553-2	LEPS25Φ227P	2/27/25	16ΦΦ

Project Site Test Reference

GROUNDWATER											
CHGW Cedar Hills GW Qtly	2	X									
CHGW Cedar Hills EP2 GW Qtly	2.1										
CHGW/VAGW Appendix III GW	4										
CHGW-OS Cedar Hills GW Offsite	38										
CFGW Cedar Falls GW Qtly	5										
DUGW Duvall GW Qtly	6										
ENGW Enumclaw GW Qtly	7										
HOGW Hobart GW Qtly	8										
HTGW Houghton GW Qtly	9										
PUGW Puyallup GW Qtly	10										
VAGW Vashon GW Qtly	12										

SURFACE WATER											
CHSW-Q Cedar Hills SW Sta. E-1	14										
CHSW-P Cedar Hills SW ISGP	16										
CHSW-TD Cedar Hills SW Top Deck	42										
CHSW-E CH Emergency	49.1										
CFSW Cedar Falls SW Qtly	17										
DUSW Duvall SW Qtly	18										
VASW Vashon SW Qtly-WEIRS	21										

TS						
HTSW-P Houghton SW NPDES	52					
SHSW-P Shoreline SW NPDES	53					
FASW-P Factoria SW NPDES	54					
ENSW-P Enumclaw SW NPDES	56					
ALSW-P Algona SW NPDES	57					
VASW-P Vashon SW NPDES	58					

LEACHATE/WASTEWATER																					
CHTW Cedar Hills Truckwash	24																				
CHLS-M Cedar Hills Leachate Mthly	23																				
CHLS-M_MOD CH Leachate Mods Mthly	23+																				
CHLS-M_As CH Leachate As Semi-Ann.	23.1																				
PERMIT																					
CHLS-P CHL Permit (wkly, 1st)	25																				
CHLS-P CHL Permit (mnthly)	25.1																				
CHLS-P CHL Permit (wkly, 2nd)	25.2	X																			
ALLS Algona WW Permit	26																				
BLLS Bow Lake WW Permit	20																				
ENLS Enumclaw WW Permit	27																				
FALS Factoria WW Permit	28																				
SRLS Shoreline WW Permit	29																				
HTLS Houghton WW Permit	30																				
RELS Renton WW Permit	31																				
VALS-P Vashon WW Permit Tanker	32																				
VALS-Q Vashon Leachate Qtly	34																				

Remarks	Number of Bottles
	1

Relinquished By Sampler: Hannah Spear
Sampler Signature: H. Spear
Sampler Printed Name: KCSWD
Company
Date: 2/28/25
Time: 1050

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Alex Tsao
Signature: A. Tsao
Printed Name: KCEL
Company
Date: 2/28/25
Time: 10:50

Observations/Comments/Special Instructions:

*Arsenic ONLY.

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	355553 -2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	0.9 10.9 0.8	Delivery Location	(Y) / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 2/27/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 2/28/25 COC / SDG No.: 18107

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: FEB 28 '25 10:55

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	02/05/2025 @ 1222
Sample Count	**Interval Time (sec)**	**Bump Test Date**
10126	60	02/07/2025 @ 1017

H2S Readings

Date	Daily Max	Daily Average
2/7/2025	0	0
2/8/2025	0	0
2/9/2025	0	0
2/10/2025	0	0
2/11/2025	0	0
2/12/2025	0	0
2/13/2025	0	0
2/14/2025	0	0

Docusign Envelope ID: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73

KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: FEBRUARY

YEAR: 2025

	DUVALL						VASHON				HOBART		OTHER		
DATE	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		REMARKS
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1															
2															
3															
4								1.00							
5								1.00							
6								2.00							
7								2.00							
8															
9															
10								2.00							
11								1.00	1.00						
12								2.00	2.00						
13							1.00	2.00	1.00						
14															
15															
16															
17															
18															
19								2.00							
20								2.00							
21		1.00						1.00							
22															
23															
24								2.00							
25		1.00						1.00							
26								2.00							
27		1.00						1.00							
28								1.00							
29															
30															
31															
TOTAL	0	21000.00	0	0.00	0	0.00	6000	175000.00	24000	0.00	0	0.00	0	0.00	

Certificate Of Completion

Envelope Id: 4AB8EFB7-456E-4EA3-A968-3D211ABBEE73 Status: Completed

Subject: Complete with Docusign: 2025.02.07_EAGLE2TABLE.pdf, 7842-04_SMR_February2025.pdf, CHLS-P_021325...

Source Envelope:

Document Pages: 76 Signatures: 3 Envelope Originator:

Certificate Pages: 5 Initials: 1 Aaron Copado

AutoNav: Enabled 401 5TH AVE

EnvelopeId Stamping: Enabled SEATTLE, WA 98104

Time Zone: (UTC-08:00) Pacific Time (US & Canada) acopado@kingcounty.gov

IP Address: 198.49.222.20

Record Tracking

Status: Original Holder: Aaron Copado Location: DocuSign

3/13/2025 3:06:05 PM acopado@kingcounty.gov

Security Appliance Status: Connected Pool: FedRamp

Storage Appliance Status: Connected Pool: King County-Dept of Natural Resources-Solid Waste Location: Docusign

Signer Events	Signature	Timestamp
Aaron Copado acopado@kingcounty.gov Environmental Scientist III KC_DNRP_SWD Security Level: Email, Account Authentication (None)	DS  Signature Adoption: Pre-selected Style Using IP Address: 198.49.222.20	Sent: 3/13/2025 3:11:17 PM Viewed: 3/13/2025 3:11:25 PM Signed: 3/13/2025 3:11:31 PM
Electronic Record and Signature Disclosure: Not Offered via Docusign		
Jennifer Keune jennifer.keune@kingcounty.gov Interim Supervisor KC_DNRP_SWD Security Level: Email, Account Authentication (None)	DocuSigned by:  A70EEC0AE02F44A... Signature Adoption: Pre-selected Style Using IP Address: 67.160.11.161	Sent: 3/14/2025 7:00:07 AM Viewed: 3/14/2025 8:26:38 AM Signed: 3/14/2025 8:37:32 AM
Electronic Record and Signature Disclosure: Accepted: 3/31/2021 3:20:14 PM ID: 040441cf-883c-43c6-a4af-1ccb2ef73edc		

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 Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	3/13/2025 3:11:17 PM
Certified Delivered	Security Checked	3/14/2025 8:26:38 AM
Signing Complete	Security Checked	3/14/2025 8:37:32 AM
Completed	Security Checked	3/14/2025 8:37:32 AM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, King County-ZZDepartmentTemplate 03 (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a $0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

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If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact King County-ZZDepartmentTemplate 03:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: cipriano.dacanay@kingcounty.gov

To advise King County-ZZDepartmentTemplate 03 of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at cipriano.dacanay@kingcounty.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from King County-ZZDepartmentTemplate 03

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with King County-ZZDepartmentTemplate 03

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify King County-ZZDepartmentTemplate 03 as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by King County-ZZDepartmentTemplate 03 during the course of your relationship with King County-ZZDepartmentTemplate 03.

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14-Day Report for Discharge or Permit Violation

For more information on reporting requirements refer to your Permit, Section S4.D. If you have a Major/Minor Discharge Authorization refer to General Conditions D

Date: 03/14/25 **Company Name:** **King County Solid Waste Division (KCSWD)**

Permit/Authorization Number: 7842-04 **Sample Site Number: A90021**

1. **Description and Cause of Non-Compliance Event:** (include dates, times, locations; sample results and estimated gallons discharged)

In the last month, SWD became aware of the exceedances summarized in the table below.

Arsenic Loading (A90021)

Exceedance Date	Aware Date	Arsenic Concentration (mg/L)	Flow (gallons)	Arsenic Loading (lbs/day)
Permit Limit		*4.0*	*2,700,000*	*0.27*
2/18/25	03/06/25	0.0749	452,500	0.2827
2/20/25	03/06/25	0.0782	455,800	0.2973
2/25/25	03/06/25	0.0631	628,300	0.3306
2/27/25	03/06/25	0.0586	613,400	0.2998

KCSWD employs operational practices designed to minimize arsenic loading exceedances. This includes self-imposed limits on the volume of leachate discharged daily based on recent arsenic concentration data. Doing so allowed KCSWD to successfully comply with arsenic loading limits for virtually all of 2024. Seasonal variations in precipitation greatly affect KCSWD's ability to manage wastewater on-site using existing capacity, which increases the risk of exceeding the arsenic loading limit.

During the month of February KCSWD employed practices to ensure the lagoons were not in danger of overtopping. However, leachate levels in the onsite lagoons rose throughout that month as precipitation increased the rate of leachate generation. February brought a combination of heavy rains and an issue with our Contaminated Stormwater (CSW) conveyance line. The gravity fed line that connects the CSW pond to the LEPS lagoons was plugged. KCSWD had to wait for the precipitation to subside before inspecting and addressing the source. This operation caused the CSW to reach ¾ capacity until the blockage was addressed. After the line was unplugged, KCSWD had to pump in excess to remove the surplus CSW. In February, to prevent both lagoons from overtopping, KCSWD needed to discharge volumes in excess of those prescribed by self-imposed pumping limits designed to maintain compliance with arsenic loading limits. Based on laboratory analytical results, the larger volumes of wastewater discharged in February resulted in arsenic loading limit exceedances on four sampling days throughout the month. This caused an arsenic loading exceedance during the discharge on February 18, 20, 25, and 27.

SWD is obligated to implement corrective actions specified in the Revised Compliance Order issued by KCIW on 10/29/19. The development and implementation of corrective actions outlined in that document continue.

Docusign Envelope ID: C7762D42-AB51-433A-AD18-555A717FE043

14-Day Report for Discharge or Permit Violation

2. Date and Time King County Notified: (requirement is within 24 hours of learning of violation unless event was spill or slug discharge then must have notified immediately)

Arsenic

Exceedance Date	Aware Date	Notification Date & Time	Notification Method	Recipient(s)
2/18/25	03/06/25	03/06/25@ 17:38	Email	Girard Arnaud, info.KCIW@kingcounty.gov
2/20/25	03/06/25	03/06/25@ 17:38	Email	Girard Arnaud, info.KCIW@kingcounty.gov
2/25/25	03/06/25	03/06/25@ 17:38	Email	Girard Arnaud, info.KCIW@kingcounty.gov
2/27/25	03/06/25	03/06/25@ 17:38	Email	Girard Arnaud, info.KCIW@kingcounty.gov

3. Corrective Actions Taken: (corrective actions taken to respond to the violation and ensure ongoing compliance.)

Arsenic

Under normal operating conditions the CSW has a 1500 gpm flow through the pipeline to the leachate lagoons, but an investigation on 02/23/2025 found the flow had dropped to 200 gpm when the CSW valve was fully open. KCSWD vactored the valve vault and jetted the effluent line and found large amounts of debris. The largest contributor to the blockage was a hard hat that had become lodged inside the pipe. After maintenance activities, removing the hard hat and recleaning, normal operations continued 02/25/2025. Discharges in excess of self-imposed pumping limits continued through 3/06/2025 to draw down CSW levels.

On 03/07/2025, KCSWD reinstated self-imposed pumping limits to maximize compliance with regulatory permit limits. We will continue to monitor arsenic concentrations closely to inform allowable discharge volumes.

KCSWD will continue to communicate circumstances that deviate from our routine discharge procedures to ensure there is no release (overtop) from our leachate lagoons and other secondary onsite storage.

A pilot-scale membrane bioreactor (MBR) commissioning was performed, and a study commenced 01/31/2025 at Cedar Hills Regional Landfill. The MBR system is treating samples of leachate from areas 5/6/7. The 13-week pilot study will evaluate effectiveness of MBR as a pretreatment technology to prepare landfill leachate for possible reverse osmosis (RO) treatment to reduce arsenic concentrations. This will help inform any future RO system development. The pilot project ran for three weeks, but shut down 2/24/2025 due to equipment failure. Pending the installation of replacement parts, the tentative restart of the MBR system is in April 2025.

Docusign Envelope ID: C7762D42-AB51-433A-AD18-555A717FE043

14-Day Report for Discharge or Permit Violation

4. If discharge violation, enter follow-up sample collection date and results: (may use subsequent self-monitoring sample if collected and analyzed within 14 days of learning of violation)

Exceedance Date	Aware Date	Resample Date(s)	Parameter	Loading Resample Result (lbs/day)	Compliant?
2/18/25	03/06/25	02/20/25	Arsenic Loading	0.2973	No
2/20/25	03/06/25	02/25/25	Arsenic Loading	0.3306	No
2/25/25	03/06/25	02/27/25	Arsenic Loading	0.2998	No
2/27/205	03/06/25	03/04/25	Arsenic Loading	N/A	N/A

Additional information regarding resampling results will be reported as part of the March 2025 Self-Monitoring Report for Cedar Hills.

ADDITIONAL SHEETS ATTACHED: oYES x NO

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information 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.

NAME: Jennifer Keune

SIGNATURE: DocuSigned by: Jennifer Keune A70E5C0AE02F44A... DATE: Mar 14, 2025

TITLE: KCSWD Supervisor

Authorized Representative / Designated Authorized Representative*

(Please circle one of the above)

**All user reports must be signed by an authorized representative of the industrial user. "Authorized representative of industrial user" is defined by King County Code 28.82.050. If you are designated, a current Delegation of Signatory Authority must be on file at King County or completed and attached to this form.*

Please return this form and attachments to:

King County Industrial Waste **130 Nickerson Street – Suite 200**
Seattle, WA 98109-1658 Fax: 206-263-3001
-or- Email a signed PDF to: info.KCIW@kingcounty.gov

Docusign Envelope ID: C7762D42-AB51-433A-AD18-555A717FE043

14-Day Report for Discharge or Permit Violation

From general permit language

1. When monitoring data shows a violation, the permittee shall:

    a. Take immediate action to stop the violation and notify KCIW within 24 hours of learning of the violation.
    b. Collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.
    c. Submit a written report within 14 days of learning of the violation (*14-Day Report*). The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

2. In the event the permittee is unable to comply with any of the conditions of this permit because of a breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature, the permittee shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
    b. Immediately notify the emergency King County contact in section S1 so steps can be taken to prevent damage to the sewerage system.
    c. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent a recurrence.

From Section D of Major Discharge Authorizations

1. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem
    b. Immediately notify KCIW so steps can be taken to prevent damage to the sewer system
    c. Submit a written report within 14 days describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence

For SIU's Spills and Slug Discharges (from Permit language)

The Permittee shall notify King County Industrial Waste immediately in the event of a spill or slug discharge to the sanitary sewer. A written report regarding the cause of the spill and/or slug discharge shall be submitted to King County within five (5) days of date of occurrence. The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

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King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

April 15, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD) DS AC

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of March 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 3/4/25, 3/6/25, 3/12/25, 3/13/25, 3/18/25, 3/20/25, 3/25/25, and 3/27/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 3/7-3/14)
- Leachate Hauling Report (for March)

The following exceedances occurred during the month of January:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	3/25/25	4/11/25	4/11/25 @ 11:04
Arsenic Loading	3/27/25	4/11/25	4/11/25 @ 11:04

All other results met permit-specified limits.

Per KCIW guidance, details regarding March'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 (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD
Laura Belt, Engineer IV, KCSWD
Dan Swope, Engineer III, KCSWD

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Grant Dornfeld, Engineer II, KCSWD

Printed on recycled paper

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** March 2025

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

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

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1													625300	
2													619300	
3													622500	
4	C	8.25	0.0495	0.2588	<0.0005	0.0013	0.0598	0.3127	0.00748	0.0391	<0.001	0.00256	627000	
5													618500	
6	C		0.0476	0.2489									627000	
7													456900	
8													390800	
9													384000	
10													0	
11													162700	
12	C	8.29	0.0465	0.1478	<0.0005	0.0008	0.0561	0.1784	0.007	0.0223	<0.001	0.00159	381200	
13	C		0.0505	0.1606									381200	
14													440900	
15													384700	
16													384100	
17													380600	
18	C	8.23	0.0497	0.1580	<0.0005	0.0008	0.0598	0.1901	0.00684	0.0217	<0.001	0.00159	381100	
19													381900	
20	C		0.0466	0.1484									381800	
21													695900	
22													771700	
23													778500	
24													779600	
25	C	8.24	0.0436	0.2842	<0.0005	0.0016	0.0534	0.3481	0.00558	0.0364	<0.001	0.00326	781700	
26													1275100	
27	C		0.0395	0.4219									1280800	
28													1278900	
29													1169200	
30													1255100	
31													1254800	

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: Jennifer Kunz
A70EEC0AE02F44A...
Name and Signature of Principal Executive or Authorized Agent

Apr 15, 2025
Date

Monthly Min pH	8.23	3/18/25	Total Monthly Flow (gallons)	19,952,800	
Monthly Max pH	8.29	3/12/25	Maximum Daily Flow	1,280,800	3/27/2025

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** March 2025

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

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

Sample Date (circle)	Sample Type*	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1													
2													
3													
4	C	<0.0001	0.00026	0.0564	0.295	<0.0004	0.0010	0.156	0.816	<.01			
5													
6													
7													
8													
9													
10													
11													
12	C	<0.0001	0.00016	0.0511	0.162	<0.0004	0.0006	0.186	0.591	<.01			
13													
14													
15													
16													
17													
18	C	<0.0001	0.00020	0.0549	0.174	<0.0004	0.0006	0.192	0.610	<.01			
19													
20													
21													
22													
23													
24													
25	C	<0.0001	0.00033	0.0495	0.323	<0.0004	0.0013	0.15	0.978	<.01	419	<.1	
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.

Apr 15, 2025
Date

DocuSigned by:
Name and Signature of Principal Executive or Authorized Agent
A70EEC0AE02F44A...

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** March 2025

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2					
3					
4					
5					
6					
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15					
16					
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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:
Name and Signature of Principal Executive or Authorized Agent
A70EEC0AE02F44A...

Apr 15, 2025
Date

Monthly **MAX** 0 Date 3/7/25-3/14/25

Monthly **AVG** 0

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

March 26, 2025

Aaron Reding
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250304P	**3/4/2025**	**18714**
LEPS250306P	**3/6/2025**	**18717**
LEPS250312P	**3/12/2025**	**18742**
LEPS250312F	**3/12/2025**	

Dear Aaron Reding,

Enclosed please find a laboratory data deliverables package for 4 leachate permit samples collected March 4. 6 and 12, 2025.

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits with the following exception.

During **Total Metals** analysis of batch WG199273, a trace amount of ***total manganese*** was detected in the method blank (MB). The *total manganese* result for the MB was qualified B on the basis of this trace detection, the sample results were all greater than 10 times the detection in the MB and are unaffected.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,

Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

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Sample Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/19/2025
Report Group: CHLS-P_031325

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

Client Sample ID: **LEPS250304P**
SDG / Lab Sample ID: **18714 / L85577-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/04/2025**
Login Date: **03/06/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250306P**
SDG / Lab Sample ID: **18717 / L85577-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/06/2025**
Login Date: **03/07/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250312P**
SDG / Lab Sample ID: **18742 / L85645-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/12/2025**
Login Date: **03/13/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250312F**
SDG / Lab Sample ID: **18742 / L85645-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/12/2025**
Login Date: **03/13/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 03/19/2025
Report Group: CHLS-P_031325

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

Client Sample ID: **LEPS250304P**
CoC / Lab Sample ID: **18714 / L85577-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/04/2025**
Login Date: **03/06/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.503		.0489	.0489		03/11/2025	03/12/2025	WG199212
Antimony, Total	10	mg/L	.00666		.00293	.00293		03/11/2025	03/12/2025	WG199212
Arsenic, Total	10	mg/L	.0495		.000489	.000489	1	03/11/2025	03/12/2025	WG199212
Barium, Total	10	mg/L	.0678		.00489	.00489		03/11/2025	03/12/2025	WG199212
Beryllium, Total	10	mg/L	<.000978	U	.000978	.000978		03/11/2025	03/12/2025	WG199212
Cadmium, Total	10	mg/L	<.000489	U	.000489	.000489	0.5	03/11/2025	03/12/2025	WG199212
Calcium, Total	10	mg/L	63.5		.489	.489		03/11/2025	03/12/2025	WG199212
Chromium, Total	10	mg/L	.0598		.00196	.00196	2.75	03/11/2025	03/12/2025	WG199212
Cobalt, Total	10	mg/L	.0137		.000489	.000489		03/11/2025	03/12/2025	WG199212
Copper, Total	10	mg/L	.00748		.00196	.00196	3	03/11/2025	03/12/2025	WG199212
Iron, Total	10	mg/L	5.17		.0978	.0978		03/11/2025	03/12/2025	WG199212
Lead, Total	10	mg/L	<.000978	U	.000978	.000978	2	03/11/2025	03/12/2025	WG199212
Magnesium, Total	10	mg/L	33.8		.489	.489		03/11/2025	03/12/2025	WG199212
Manganese, Total	10	mg/L	.679		.000978	.000978		03/11/2025	03/12/2025	WG199212
Nickel, Total	10	mg/L	.0564		.000978	.000978	2.5	03/11/2025	03/12/2025	WG199212
Phosphorus, Total	10	mg/L	3.36		.978	.978		03/11/2025	03/12/2025	WG199212
Potassium, Total	10	mg/L	172		.978	.978		03/11/2025	03/12/2025	WG199212
Selenium, Total	10	mg/L	<.00489	U	.00489	.00489		03/11/2025	03/12/2025	WG199212
Silver, Total	10	mg/L	<.000391	U	.000391	.000391	1	03/11/2025	03/12/2025	WG199212
Sodium, Total	10	mg/L	523		.978	.978		03/11/2025	03/12/2025	WG199212
Thallium, Total	10	mg/L	<.000734	DU	.000734	.000734		03/11/2025	03/12/2025	WG199212
Tin, Total	10	mg/L	.00512		.00489	.00489		03/11/2025	03/12/2025	WG199212
Vanadium, Total	10	mg/L	.0175	D	.000734	.000734		03/11/2025	03/12/2025	WG199212
Zinc, Total	10	mg/L	.156		.00489	.00489	5	03/11/2025	03/12/2025	WG199212
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/11/2025	03/12/2025	WG199222

Client Sample ID: **LEPS250306P**
CoC / Lab Sample ID: **18717 / L85577-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/06/2025**
Login Date: **03/07/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0476		.000499	.000499	1	03/11/2025	03/12/2025	WG199212

Client Sample ID: **LEPS250312P**
CoC / Lab Sample ID: **18742 / L85645-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/12/2025**
Login Date: **03/13/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.423		.0499	.0499		03/14/2025	03/17/2025	WG199273
Antimony, Total	10	mg/L	.00692		.003	.003		03/14/2025	03/17/2025	WG199273
Arsenic, Total	10	mg/L	.0465		.000499	.000499	1	03/14/2025	03/17/2025	WG199273
Barium, Total	10	mg/L	.0724		.00499	.00499		03/14/2025	03/17/2025	WG199273
Beryllium, Total	10	mg/L	<.000999	U	.000999	.000999		03/14/2025	03/17/2025	WG199273

Client Sample ID: **LEPS250312P** | Collect Date: **03/12/2025**
CoC / Lab Sample ID: **18742 / L85645-1** | Login Date: **03/13/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: **LEACHATE**

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Cadmium, Total	10	mg/L	<.000499	U	.000499	.000499	0.5	03/14/2025	03/17/2025	WG199273
Calcium, Total	10	mg/L	74.3		.499	.499		03/14/2025	03/17/2025	WG199273
Chromium, Total	10	mg/L	.0561		.002	.002	2.75	03/14/2025	03/17/2025	WG199273
Cobalt, Total	10	mg/L	.0127		.000499	.000499		03/14/2025	03/17/2025	WG199273
Copper, Total	10	mg/L	.007		.002	.002	3	03/14/2025	03/17/2025	WG199273
Iron, Total	10	mg/L	5.36		.0999	.0999		03/14/2025	03/17/2025	WG199273
Lead, Total	10	mg/L	<.000999	U	.000999	.000999	2	03/14/2025	03/17/2025	WG199273
Magnesium, Total	10	mg/L	34.7		.499	.499		03/14/2025	03/17/2025	WG199273
Manganese, Total	10	mg/L	.851		.000999	.000999		03/14/2025	03/17/2025	WG199273
Nickel, Total	10	mg/L	.0511		.000999	.000999	2.5	03/14/2025	03/17/2025	WG199273
Phosphorus, Total	10	mg/L	3.41		.999	.999		03/14/2025	03/17/2025	WG199273
Potassium, Total	10	mg/L	175		.999	.999		03/14/2025	03/17/2025	WG199273
Selenium, Total	10	mg/L	<.00499	U	.00499	.00499		03/14/2025	03/17/2025	WG199273
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/14/2025	03/17/2025	WG199273
Sodium, Total	10	mg/L	473		.999	.999		03/14/2025	03/17/2025	WG199273
Thallium, Total	10	mg/L	<.000749	U	.000749	.000749		03/14/2025	03/17/2025	WG199273
Tin, Total	10	mg/L	<.00499	U	.00499	.00499		03/14/2025	03/17/2025	WG199273
Vanadium, Total	10	mg/L	.0161		.000749	.000749		03/14/2025	03/17/2025	WG199273
Zinc, Total	10	mg/L	.186		.00499	.00499	5	03/14/2025	03/17/2025	WG199273
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/14/2025	03/14/2025	WG199297

Client Sample ID: **LEPS250312F** | Collect Date: **03/12/2025**
CoC / Lab Sample ID: **18742 / L85645-2** | Login Date: **03/13/2025**
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	<.0494	U	.0494	.0494		03/14/2025	03/17/2025	WG199273
Antimony, Total	10	mg/L	<.00296	U	.00296	.00296		03/14/2025	03/17/2025	WG199273
Arsenic, Total	10	mg/L	<.000494	U	.000494	.000494	1	03/14/2025	03/17/2025	WG199273
Barium, Total	10	mg/L	<.00494	U	.00494	.00494		03/14/2025	03/17/2025	WG199273
Beryllium, Total	10	mg/L	<.000987	U	.000987	.000987		03/14/2025	03/17/2025	WG199273
Cadmium, Total	10	mg/L	<.000494	U	.000494	.000494	0.5	03/14/2025	03/17/2025	WG199273
Calcium, Total	10	mg/L	<.494	U	.494	.494		03/14/2025	03/17/2025	WG199273
Chromium, Total	10	mg/L	<.00197	U	.00197	.00197	2.75	03/14/2025	03/17/2025	WG199273
Cobalt, Total	10	mg/L	<.000494	U	.000494	.000494		03/14/2025	03/17/2025	WG199273
Copper, Total	10	mg/L	<.00197	U	.00197	.00197	3	03/14/2025	03/17/2025	WG199273
Iron, Total	10	mg/L	<.0987	U	.0987	.0987		03/14/2025	03/17/2025	WG199273
Lead, Total	10	mg/L	<.000987	U	.000987	.000987	2	03/14/2025	03/17/2025	WG199273
Magnesium, Total	10	mg/L	<.494	U	.494	.494		03/14/2025	03/17/2025	WG199273
Manganese, Total	10	mg/L	<.000987	U	.000987	.000987		03/14/2025	03/17/2025	WG199273
Nickel, Total	10	mg/L	<.000987	U	.000987	.000987	2.5	03/14/2025	03/17/2025	WG199273
Phosphorus, Total	10	mg/L	<.987	U	.987	.987		03/14/2025	03/17/2025	WG199273
Potassium, Total	10	mg/L	<.987	U	.987	.987		03/14/2025	03/17/2025	WG199273
Selenium, Total	10	mg/L	<.00494	U	.00494	.00494		03/14/2025	03/17/2025	WG199273
Silver, Total	10	mg/L	<.000395	U	.000395	.000395	1	03/14/2025	03/17/2025	WG199273
Sodium, Total	10	mg/L	<.987	U	.987	.987		03/14/2025	03/17/2025	WG199273
Thallium, Total	10	mg/L	<.00074	U	.00074	.00074		03/14/2025	03/17/2025	WG199273
Tin, Total	10	mg/L	<.00494	U	.00494	.00494		03/14/2025	03/17/2025	WG199273
Vanadium, Total	10	mg/L	<.00074	U	.00074	.00074		03/14/2025	03/17/2025	WG199273
Zinc, Total	10	mg/L	<.00494	U	.00494	.00494	5	03/14/2025	03/17/2025	WG199273
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/14/2025	03/14/2025	WG199297

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Target Parameter Count for Report Group: 76

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Quality Control Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

Workgroup: WG199212 Total Metals by ICPMS

MB:WG199212-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

SB:WG199212-2 MB:WG199212-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.1	100		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5200	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5050	101		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	206	103		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5070	101		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4700	94		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4870	97		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.9	105		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.2	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5280	106		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22.2	111		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.6	113		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.9	109		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.8	99		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	19.4	97		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.8	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.1	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.7	98		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.5	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.8	104		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.5	102		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.1	100		85--115

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

MSD:WG199212-4 MS:WG199212-3 L85577-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.991	0.991	ug/L	<QL	198	198	100		75--125	196	197	100		0		0--20
Sodium, Total	991	991	ug/L	523000	49600	572000		4xRule	75--125	49100	573000		4xRule	0		0--20
Magnesium, Total	496	496	ug/L	33800	49600	81600	96		75--125	49100	81500	97		0		0--20
Aluminum, Total	49.6	49.6	ug/L	503	1980	2550	103		75--125	1960	2560	105		0		0--20
Phosphorus, Total	991	991	ug/L	3360	49600	54300	103		75--125	49100	54100	103		0		0--20
Potassium, Total	991	991	ug/L	172000	49600	217000	92		75--125	49100	219000	96		1		0--20
Calcium, Total	496	496	ug/L	63500	49600	115000	104		75--125	49100	114000	104		0		0--20
Vanadium, Total	0.743	0.743	ug/L	17.5	198	221	103		75--125	196	217	101		2		0--20
Chromium, Total	1.98	1.98	ug/L	59.8	198	268	105		75--125	196	266	105		1		0--20
Manganese, Total	0.991	0.991	ug/L	679	198	877	100		75--125	196	878	101		0		0--20
Iron, Total	99.1	99.1	ug/L	5170	49600	56100	103		75--125	49100	56000	103		0		0--20
Cobalt, Total	0.496	0.496	ug/L	13.7	198	228	108		75--125	196	223	107		2		0--20
Nickel, Total	0.991	0.991	ug/L	56.4	198	273	109		75--125	196	268	108		2		0--20
Copper, Total	1.98	1.98	ug/L	7.48	198	228	111		75--125	196	225	111		1		0--20
Zinc, Total	4.96	4.96	ug/L	156	198	371	108		75--125	196	364	106		2		0--20
Arsenic, Total	0.496	0.496	ug/L	49.5	198	249	101		75--125	196	250	102		0		0--20
Selenium, Total	4.96	4.96	ug/L	<QL	198	200	101		75--125	196	194	99		3		0--20
Silver, Total	0.396	0.396	ug/L	<QL	198	191	96		75--125	196	189	96		1		0--20
Cadmium, Total	0.496	0.496	ug/L	<QL	198	197	100		75--125	196	195	100		1		0--20
Tin, Total	4.96	4.96	ug/L	5.12	198	184	90		75--125	196	185	91		0		0--20
Antimony, Total	2.97	2.97	ug/L	6.66	198	201	98		75--125	196	197	97		2		0--20
Barium, Total	4.96	4.96	ug/L	67.8	198	272	103		75--125	196	269	103		1		0--20
Thallium, Total	0.743	0.743	ug/L	<QL	198	197	99		75--125	196	199	101		1		0--20
Lead, Total	0.991	0.991	ug/L	<QL	198	197	99		75--125	196	192	98		3		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

Workgroup: WG199222 Total Mercury by CVAA

MB:WG199222-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199222-2 MB:WG199222-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.997	100		85--115

MSD:WG199222-4 MS:WG199222-3 L85582-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-ALLS Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	2.05	103		75--125	2	2.06	103		0		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

Workgroup: WG199273 Total Metals by ICPMS

MB:WG199273-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L	0.183	B
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

SB:WG199273-2 MB:WG199273-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	18.6	93		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5170	103		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5160	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	191	95		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4940	99		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5110	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4860	97		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.3	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	0.183	20	21.1	105		85--115
Iron, Total	5	10	ug/L	<QL	5000	5130	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.9	110		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.8	104		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20	100		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	19.9	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.3	97		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	19.8	99		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.3	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21	105		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

MSD:WG199273-4 MS:WG199273-3 L85645-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.988	0.988	ug/L	<QL	198	190	96		75--125	199	198	100		4		0--20
Sodium, Total	988	988	ug/L	473000	49400	512000		4xRule	75--125	49700	511000		4xRule	0		0--20
Magnesium, Total	494	494	ug/L	34700	49400	83800	99		75--125	49700	85500	102		2		0--20
Aluminum, Total	49.4	49.4	ug/L	423	1980	2350	98		75--125	1990	2450	102		4		0--20
Phosphorus, Total	988	988	ug/L	3410	49400	53800	102		75--125	49700	53800	101		0		0--20
Potassium, Total	988	988	ug/L	175000	49400	228000	107		75--125	49700	224000	99		1		0--20
Calcium, Total	494	494	ug/L	74300	49400	124000	101		75--125	49700	123000	99		1		0--20
Vanadium, Total	0.741	0.741	ug/L	16.1	198	218	102		75--125	199	221	103		1		0--20
Chromium, Total	1.98	1.98	ug/L	56.1	198	263	105		75--125	199	266	105		1		0--20
Manganese, Total	0.988	0.988	ug/L	851	198	1070		4xRule	75--125	199	1060		4xRule	1		0--20
Iron, Total	98.8	98.8	ug/L	5360	49400	55300	101		75--125	49700	54900	100		1		0--20
Cobalt, Total	0.494	0.494	ug/L	12.7	198	218	104		75--125	199	223	106		2		0--20
Nickel, Total	0.988	0.988	ug/L	51.1	198	259	105		75--125	199	261	106		1		0--20
Copper, Total	1.98	1.98	ug/L	7	198	223	109		75--125	199	226	110		1		0--20
Zinc, Total	4.94	4.94	ug/L	186	198	393	105		75--125	199	396	105		1		0--20
Arsenic, Total	0.494	0.494	ug/L	46.5	198	247	101		75--125	199	251	103		2		0--20
Selenium, Total	4.94	4.94	ug/L	<QL	198	202	102		75--125	199	208	105		3		0--20
Silver, Total	0.395	0.395	ug/L	<QL	198	188	95		75--125	199	190	96		1		0--20
Cadmium, Total	0.494	0.494	ug/L	<QL	198	196	99		75--125	199	194	98		1		0--20
Tin, Total	4.94	4.94	ug/L	<QL	198	180	91		75--125	199	185	93		3		0--20
Antimony, Total	2.96	2.96	ug/L	6.92	198	212	104		75--125	199	220	107		4		0--20
Barium, Total	4.94	4.94	ug/L	72.4	198	281	106		75--125	199	286	108		2		0--20
Thallium, Total	0.741	0.741	ug/L	<QL	198	203	103		75--125	199	207	104		2		0--20
Lead, Total	0.988	0.988	ug/L	<QL	198	205	104		75--125	199	207	104		1		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_031325 COC 18714, 18717, 18742

Workgroup: WG199297 Total Mercury by CVAA

MB:WG199297-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199297-2 MB:WG199297-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.981	98		85--115

MSD:WG199297-4 MS:WG199297-3 L85645-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.97	99		75--125	2	1.96	98		1		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 3/5/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18714**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85577-1	LEPS250304P IR 3/5	3/4/25	1600

Project Site Test Reference

GROUNDWATER											
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	
2	2.1	4	38	5	6	7	8	9	10	12	

SURFACE WATER											
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISISP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS					
14	16	42	49.1	17	18	21					

TS											
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES						
52	53	54	56	57	58						

LEACHATE/WASTEWATER																	
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT													
				CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty		
24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34		
				X													

Lab No.	Number of Bottles	Remarks
85577-1	1	Diss Sulfide <0.1 ppm

Relinquished By Sampler: I. Rivera
Sampler Signature:
Sampler Printed Name: KCSWD
Company
Date: 3/6/25
Time: 0700

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Alex Trejo
Signature: A. Trejo
Printed Name: KCEL
Company
Date: 3/6/25
Time: 1615

Observations/Comments/Special Instructions:

Samples secured overnight
Custody sealed on 3/6/25 at 0700

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	855577 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	1.0 0.8 3.0.7	Delivery Location	(Y) / N	

Sub-Contracting: Y (N) List Product(s):

Changes: Y (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3/4/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 3/6/25 COC / SDG No.: 185774

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Jones

Date / Time Completed: MAR 06 '25 16:40

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Chain of Custody Record

Environmental Monitoring Program

Date: 3/7/2025

Department of
Natural Resources and Parks
Solid Waste Division

No. **18717**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85577-2	LEPS250306P	3/6/25	1600

Project Site Test Reference

GROUNDWATER											
CHGW Cedar Hills GW Qtly	CHGW Cedar Hills EPZ GW Qtly	CHGW/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qtly	DUGW Duvall GW Qtly	ENGW Enumclaw GW Qtly	HOGW Hobart GW Qtly	HTGW Houghton GW Qtly	PUGW Puyallup GW Qtly	VAGW Vashon GW Qtly	
2	2.1	4	38	5	6	7	8	9	10	12	

SURFACE WATER							
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qtly	DUSW Duvall SW Qtly	VASW Vashon SW Qtly-WEIRS	
14	16	42	49.1	17	18	21	

TS						
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	
52	53	54	56	57	58	

LEACHATE/WASTEWATER														
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT										
				CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qtly
24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
						X									

Number of Bottles	Remarks
1	

Relinquished By Sampler: I. Rivera
Sampler Signature:
Sampler Printed Name: KCSWD
Company
Date: 3/7/25
Time: 1220

Received By
Signature
Printed Name
Company
Date: 3/7/25 DN
Time

Observations/Comments/Special Instructions:
Arsenic Only
Sample secured overnight

Total # of Bottles: 1

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By: DNC NGUYEN
Signature
Printed Name: KCEL
Company
Date: 3/7/25
Time: 12:20

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev.12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85577
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	0.6, 0.5, 0.5	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3-6-25 — Project No.: 421422

VTRP Collect Date(s): ____ — Project Site Test Reference: CHLS-P(25.2)

Receive Date: 3-7-25 — COC / SDG No.: 18717

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

MAR 07 '25 12:31

Date / Time Completed: _____

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Chain of Custody Record

Environmental Monitoring Program

Date: 3/12/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18742**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85645-1	LEPS250312P	3/12/25	1300
85645-2	LEPS250312F	3/12/25	1305

Project Site Test Reference

GROUNDWATER											
2 CHGW Cedar Hills GW Qtly	2.1 CHGW Cedar Hills EPZ GW Qtly	4 CHGW/VAGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qtly	6 DUGW Duvall GW Qtly	7 ENGW Enumclaw GW Qtly	8 HOGW Hobart GW Qtly	9 HTGW Houghton GW Qtly	10 PUGW Puyallup GW Qtly	12 VAGW Vashon GW Qtly	
SURFACE WATER											
14 CHSW-Q Cedar Hills SW Sta. E-I	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CHSW-E CH Emergency	17 CFSW Cedar Falls SW Qtly	18 DUSW Duvall SW Qtly	21 VASW Vashon SW Qtly-WEIRS					
TS											
52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES						
LEACHATE/WASTEWATER											
24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mfly	23+ CHLS-M_MOD CH Leachate Mods Mfly	23.1 CHLS-M_As CH Leachate As Sent-Ann.								
PERMIT											
25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (monthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qtly

Lab No.	Number of Bottles	Remarks
85645-1	1	DISS. SULFIDE < 0.1 ppm
85645-2	1	N/A

Relinquished By Sampler: J. Patten
Sampler Signature: J. Patten
Sampler Printed Name: KCSWD
Company:
Date: 3/12/25
Time: 1500 *

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Jason Linnard
Signature: Jason Linnard
Printed Name: KCEL
Company: KCEL
Date: 3-13-25
Time: 1345

Observations/Comments/Special Instructions:
* sample custody sealed

Total # of Bottles: 2

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

Sample Collect Date(s): 3-12-25 **Project No.:** 421422

VTRP Collect Date(s): — **Project Site Test Reference:** CHLS-P (25)

Receive Date: 3-12-25 **COC / SDG No.:** 18743

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85645 -1	-2
40 mL clear vial (VOA)		
60 mL CWM HDPE		
125 mL CNM HDPE		
125 mL CWM HDPE		
125 mL GANM w/HCl		
250 mL CWM HDPE		
250 mL GAWM w/H_2SO_4		
500 mL AWM HDPE		
500 mL CWM HDPE		
500 mL CWM PP (MICRO)		
500 mL HDPE (METALS)	1	1
500 mL GAWM		
1L CWM HDPE		
1L GANM		
1L GAWM w/ H_2SO_4		
2L CWM HDPE:		
Other -		
Other -		
Other -		
Other -		
Other -		
Total # of Samples 2	1	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.7 1.7 1.6	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

MAR 13 '25 14:05

Date / Time Completed: _____

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

April 2, 2025

Aaron Reding
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS2501313P	**3/13/2025**	**18743**
LEPS250318P	**3/18/2025**	**18747**
LEPS250320P	**3/20/2025**	**18646**

Dear Aaron Reding,

Enclosed please find a laboratory data deliverables package for 3 leachate permit samples collected March 13, 18 and 20, 2025.

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/02/2025
Report Group: CHLS-P_032525

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

Client Sample ID: **LEPS250320P**
SDG / Lab Sample ID: **18646 / L85699-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/20/2025**
Login Date: **03/21/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS2501313P**
SDG / Lab Sample ID: **18743 / L85645-3**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/13/2025**
Login Date: **03/18/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250318P**
SDG / Lab Sample ID: **18747 / L85699-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **03/18/2025**
Login Date: **03/20/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/02/2025
Report Group: CHLS-P_032525

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

Client Sample ID: **LEPS250320P**
CoC / Lab Sample ID: **18646 / L85699-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/20/2025**
Login Date: **03/21/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0466		.000499	.000499	1	03/24/2025	03/25/2025	WG199453

Client Sample ID: **LEPS2501313P**
CoC / Lab Sample ID: **18743 / L85645-3**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/13/2025**
Login Date: **03/18/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0505		.000509	.000509	1	03/20/2025	03/21/2025	WG199381

Client Sample ID: **LEPS250318P**
CoC / Lab Sample ID: **18747 / L85699-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/18/2025**
Login Date: **03/20/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.562		.0499	.0499		03/31/2025	03/31/2025	WG199421
Antimony, Total	10	mg/L	.00661		.003	.003		03/31/2025	03/31/2025	WG199421
Arsenic, Total	10	mg/L	.0497		.000499	.000499	1	03/31/2025	03/31/2025	WG199421
Barium, Total	10	mg/L	.0706		.00499	.00499		03/31/2025	03/31/2025	WG199421
Beryllium, Total	10	mg/L	<.000998	U	.000998	.000998		03/31/2025	03/31/2025	WG199421
Cadmium, Total	10	mg/L	<.000499	U	.000499	.000499	0.5	03/31/2025	03/31/2025	WG199421
Calcium, Total	10	mg/L	88.4		.499	.499		03/31/2025	03/31/2025	WG199421
Chromium, Total	10	mg/L	.0598		.002	.002	2.75	03/31/2025	03/31/2025	WG199421
Cobalt, Total	10	mg/L	.0139		.000499	.000499		03/31/2025	03/31/2025	WG199421
Copper, Total	10	mg/L	.00684		.002	.002	3	03/31/2025	03/31/2025	WG199421
Iron, Total	10	mg/L	7.11		.0998	.0998		03/31/2025	03/31/2025	WG199421
Lead, Total	10	mg/L	<.000998	U	.000998	.000998	2	03/31/2025	03/31/2025	WG199421
Magnesium, Total	10	mg/L	35.7		.499	.499		03/31/2025	03/31/2025	WG199421
Manganese, Total	10	mg/L	.845		.000998	.000998		03/31/2025	03/31/2025	WG199421
Nickel, Total	10	mg/L	.0549		.000998	.000998	2.5	03/31/2025	03/31/2025	WG199421
Phosphorus, Total	10	mg/L	3.96		.998	.998		03/31/2025	03/31/2025	WG199421
Potassium, Total	10	mg/L	170		.998	.998		03/31/2025	03/31/2025	WG199421
Selenium, Total	10	mg/L	<.00499	U	.00499	.00499		03/31/2025	03/31/2025	WG199421
Silver, Total	10	mg/L	<.000399	U	.000399	.000399	1	03/31/2025	03/31/2025	WG199421
Sodium, Total	10	mg/L	513		.998	.998		03/31/2025	03/31/2025	WG199421
Thallium, Total	10	mg/L	<.000749	U	.000749	.000749		03/31/2025	03/31/2025	WG199421
Tin, Total	10	mg/L	.00506		.00499	.00499		03/31/2025	03/31/2025	WG199421
Vanadium, Total	10	mg/L	.0175		.000749	.000749		03/31/2025	03/31/2025	WG199421
Zinc, Total	10	mg/L	.192		.00499	.00499	5	03/31/2025	03/31/2025	WG199421
Mercury, Total	2	mg/L	<.000125	U	.000125	.000125		03/25/2025	03/26/2025	WG199467

Target Parameter Count for Report Group: 27

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Quality Control Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

Workgroup: WG199381 Total Metals by ICPMS

MB:WG199381-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG199381-2 MB:WG199381-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.9	104		85--115

MSD:WG199381-4 MS:WG199381-3 L85645-3 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.497	0.497	ug/L	50.5	199	265	108		75--125	202	264	106		0		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

Workgroup: WG199421 Total Metals by ICPMS

MB:WG199421-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

SB:WG199421-2 MB:WG199421-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5600	112		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5370	107		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	217	108		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5260	105		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4950	99		85--115
Calcium, Total	25	50	ug/L	<QL	5000	5200	104		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	21.8	109		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	22.8	114		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	22.5	113		85--115
Iron, Total	5	10	ug/L	<QL	5000	5580	112		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.5	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22.2	111		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.2	111		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	22.1	111		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.8	104		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.6	103		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.4	97		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	18.9	94		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	19.8	99		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	19.8	99		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.5	102		85--115

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

MSD:WG199421-4 MS:WG199421-3 L85731-3 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.99	0.99	ug/L	<QL	198	211	106		75--125	198	207	104		2		0--20
Sodium, Total	990	990	ug/L	2400	49500	57100	110		75--125	49600	58600	113		3		0--20
Magnesium, Total	495	495	ug/L	3330	49500	55800	106		75--125	49600	56900	108		2		0--20
Aluminum, Total	49.5	49.5	ug/L	101	1980	2230	107		75--125	1980	2290	111		3		0--20
Phosphorus, Total	990	990	ug/L	<QL	49500	51700	104		75--125	49600	52500	106		2		0--20
Potassium, Total	990	990	ug/L	1110	49500	50000	99		75--125	49600	51000	101		2		0--20
Calcium, Total	495	495	ug/L	8840	49500	60000	103		75--125	49600	60600	104		1		0--20
Vanadium, Total	0.743	0.743	ug/L	2.39	198	219	109		75--125	198	224	112		2		0--20
Chromium, Total	1.98	1.98	ug/L	2.42	198	229	114		75--125	198	232	116		1		0--20
Manganese, Total	0.99	0.99	ug/L	28.8	198	249	111		75--125	198	252	113		1		0--20
Iron, Total	99	99	ug/L	511	49500	54700	110		75--125	49600	55900	112		2		0--20
Cobalt, Total	0.495	0.495	ug/L	<QL	198	220	111		75--125	198	222	112		1		0--20
Nickel, Total	0.99	0.99	ug/L	10.5	198	240	116		75--125	198	242	117		1		0--20
Copper, Total	1.98	1.98	ug/L	25.6	198	250	113		75--125	198	253	115		1		0--20
Zinc, Total	4.95	4.95	ug/L	14	198	236	112		75--125	198	238	113		1		0--20
Arsenic, Total	0.495	0.495	ug/L	0.984	198	208	105		75--125	198	213	107		2		0--20
Selenium, Total	4.95	4.95	ug/L	<QL	198	208	105		75--125	198	210	106		1		0--20
Silver, Total	0.396	0.396	ug/L	<QL	198	207	105		75--125	198	211	107		2		0--20
Cadmium, Total	0.495	0.495	ug/L	<QL	198	204	103		75--125	198	209	105		2		0--20
Tin, Total	4.95	4.95	ug/L	<QL	198	196	99		75--125	198	188	95		4		0--20
Antimony, Total	2.97	2.97	ug/L	<QL	198	191	96		75--125	198	183	93		4		0--20
Barium, Total	4.95	4.95	ug/L	<QL	198	207	105		75--125	198	198	100		4		0--20
Thallium, Total	0.743	0.743	ug/L	<QL	198	200	101		75--125	198	189	95		6		0--20
Lead, Total	0.99	0.99	ug/L	<QL	198	205	103		75--125	198	198	100		3		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

Workgroup: WG199453 Total Metals by ICPMS

MB:WG199453-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG199453-2 MB:WG199453-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20	100		85--115

MSD:WG199453-4 MS:WG199453-3 L85699-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.498	0.498	ug/L	46.6	199	244	99		75--125	199	246	100		1		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_032525 COC 18646, 18743, 18747

Workgroup: WG199467 Total Mercury by CVAA

MB:WG199467-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199467-2 MB:WG199467-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	1	100		85--115

MSD:WG199467-4 MS:WG199467-3 L85699-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.125	0.125	ug/L	<QL	2.5	2.35	94		75--125	2.5	2.37	95		1		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 3/21/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18646**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time	2 CHGW Cedar Hills GW Qlty	2.1 CHGW Cedar Hills EPZ GW Qlty	4 CHGW/AGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qlty	6 DUGW Duvall GW Qlty	7 ENGW Enumclaw GW Qlty	8 HOGW Hobart GW Qlty	9 HTGW Houghton GW Qlty	10 PUGW Puyallup GW Qlty	12 VAGW Vashon GW Qlty	14 CHSW-Q Cedar Hills SW Sta. E-1	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CHSW-E CH Emergency	17 CFSW Cedar Falls SW Qlty	18 DUSW Duvall SW Qlty	21 VASW Vashon SW Qlty-WEIRS	52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES	24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mthy	23+ CHLS-M_MOD CH Leachate Moda Mthy	23.1 CHLS-M_As CH Leachate As Semi-Ann.	25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (mnthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
IR 3/21 LF 85699-2	LEPS250320P	3/20/25	1300																													X										1	

GROUNDWATER | SURFACE WATER | TS | PERMIT | LEACHATE/WASTEWATER

Relinquished By Sampler	Date	Received By	Date	Observations/Comments/Special Instructions:	Total # of Bottles:	1
I. Rivera	3/21/25			Arsenic only		
Sampler Signature		Signature		Sample secure overnight		
Sampler Printed Name: KCSWD	Time: 1225	Printed Name	Time			
Company		Company				
Relinquished By	Date	Received By: [signature]	Date: 3/21/25			
Signature		Signature: Kelsey Kimball				
Printed Name	Time	Printed Name: KCEL	Time: 1225			
Company		Company				

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	556099										
	2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	2.5 / 1.4 / 2.0	Delivery Location	(Y) / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3/20/25 Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHCS-P(25-2)

Receive Date: 3/21/25 COC / SDG No.: 18646

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAR 21 '25 12:30

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Chain of Custody Record

Environmental Monitoring Program

Date: 3/14/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18743**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.2)

| Lab No. | Sample ID | Date | Time | Project Site Test Reference | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85645-3										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	(Y) / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	1.9 11.7 1.7	Delivery Location	(Y) / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3-13-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 3-18-25 COC / SDG No.: 18743

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAR 18 '25 14:41

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Chain of Custody Record

Environmental Monitoring Program

Date: 3/18/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18747**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85699-1	LEPS250318P	3/18/25	1300

Project Site Test Reference

GROUNDWATER											
2	2.1	4	38	5	6	7	8	9	10	12	
CHGW Cedar Hills GW Qtly	CHGW Cedar Hills EPZ GW Qtly	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qtly	DUGW Duvall GW Qtly	ENGW Enumclaw GW Qtly	HOGW Hobart GW Qtly	HTGW Houghton GW Qtly	PUGW Puyallup GW Qtly	VAGW Vashon GW Qtly	

SURFACE WATER											
14	16	42	49.1	17	18	21	52	53	54	56	57	58
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qtly	DUSW Duvall SW Qtly	VASW Vashon SW Qtly-WEIRS	TS: HTSW-P Houghton SW NPDES	TS: SHSW-P Shoreline SW NPDES	TS: FASW-P Factoria SW NPDES	TS: ENSW-P Enumclaw SW NPDES	TS: ALSW-P Algona SW NPDES	TS: VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER														
24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mode Mthly	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT: CHLS-P CH L Permit (wkly, 1st)	PERMIT: CHLS-P CH L Permit (monthly)	PERMIT: CHLS-P CH L Permit (wkly, 2nd)	PERMIT: ALLS Algona WW Permit	PERMIT: BLLS Bow Lake WW Permit	PERMIT: ENLS Enumclaw WW Permit	PERMIT: FALS Factoria WW Permit	PERMIT: SRLS Shoreline WW Permit	PERMIT: HTLS Houghton WW Permit	PERMIT: RELS Renton WW Permit	PERMIT: VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qtly
				X											

Number of Bottles	Remarks
1	Diss sulfide <0.1 ppm

Relinquished By Sampler: R. Hooper
Sampler Signature: R. Hooper
Sampler Printed Name: KCSWD
Company:
Date: 3/18/25
Time: 1500

Received By: Jason Kinnard
Signature:
Printed Name:
Company: KCEC
Date: 3/20/25
Time: 1340

Relinquished By:
Signature:
Printed Name:
Company:
Date:
Time:

Received By:
Signature:
Printed Name:
Company:
Date:
Time:

Observations/Comments/Special Instructions:

Custody sealed @ 1500 on 3/18

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 856099-1
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 12CR20	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3-18-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 3-20-25 COC / SDG No.: 18747

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAR 20 '25 13:56

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

April 11, 2025

Aaron Reding
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250325P	**3/25/2025**	**18732**
LEPS250327P	**3/27/2025**	**18759**

Dear Aaron Reding,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected March 25 and 27, 2025.

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receiving Comments
No sample receiving anomalies were observed.

Conventionals QC Information
All calculable QC results for conventionals parameters were within laboratory control limits.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits with the following exception.

During **Total Metals** analysis of batch WG199503 a trace amount of ***total aluminum*** was detected in the method blank (MB). The *total aluminum* result for the MB was qualified B and J based on this trace detection; the amount of aluminum in the samples was greater than 10 times the trace detection in the MB, therefore there is no affect on the sample results.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/11/2025
Report Group: CHLS-P_040225

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

Client Sample ID: **LEPS250325P**
SDG / Lab Sample ID: **18732 / L85729-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/25/2025**
Login Date: **03/26/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250327P**
SDG / Lab Sample ID: **18759 / L85730-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/27/2025**
Login Date: **03/28/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 04/11/2025
Report Group: CHLS-P_040225

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

Client Sample ID: **LEPS250325P**
CoC / Lab Sample ID: **18732 / L85729-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/25/2025**
Login Date: **03/26/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Nitrate + Nitrite as N	10	mg/L	<.1	U	.1	.4		04/01/2025	04/01/2025	WG199605
Ammonia	50	mg/L	419		25	50		04/01/2025	04/01/2025	WG199607

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.402		.05	.05		03/27/2025	03/31/2025	WG199503
Antimony, Total	10	mg/L	.00606		.003	.003		03/27/2025	03/31/2025	WG199503
Arsenic, Total	10	mg/L	.0436		.0005	.0005	1	03/27/2025	03/31/2025	WG199503
Barium, Total	10	mg/L	.0682		.005	.005		03/27/2025	03/31/2025	WG199503
Beryllium, Total	10	mg/L	<.000999	U	.000999	.000999		03/27/2025	03/31/2025	WG199503
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	03/27/2025	03/31/2025	WG199503
Calcium, Total	10	mg/L	83.9		.5	.5		03/27/2025	03/31/2025	WG199503
Chromium, Total	10	mg/L	.0534		.002	.002	2.75	03/27/2025	03/31/2025	WG199503
Cobalt, Total	10	mg/L	.0122		.0005	.0005		03/27/2025	03/31/2025	WG199503
Copper, Total	10	mg/L	.00558		.002	.002	3	03/27/2025	03/31/2025	WG199503
Iron, Total	10	mg/L	7.88		.0999	.0999		03/27/2025	03/31/2025	WG199503
Lead, Total	10	mg/L	<.000999	U	.000999	.000999	2	03/27/2025	03/31/2025	WG199503
Magnesium, Total	10	mg/L	34.2		.5	.5		03/27/2025	03/31/2025	WG199503
Manganese, Total	10	mg/L	.641		.000999	.000999		03/27/2025	03/31/2025	WG199503
Nickel, Total	10	mg/L	.0495		.000999	.000999	2.5	03/27/2025	03/31/2025	WG199503
Phosphorus, Total	10	mg/L	3.54		.999	.999		03/27/2025	03/31/2025	WG199503
Potassium, Total	10	mg/L	168		.999	.999		03/27/2025	03/31/2025	WG199503
Selenium, Total	10	mg/L	<.005	U	.005	.005		03/27/2025	03/31/2025	WG199503
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	03/27/2025	03/31/2025	WG199503
Sodium, Total	10	mg/L	456		.999	.999		03/27/2025	03/31/2025	WG199503
Thallium, Total	10	mg/L	<.00075	U	.00075	.00075		03/27/2025	03/31/2025	WG199503
Tin, Total	10	mg/L	<.005	U	.005	.005		03/27/2025	03/31/2025	WG199503
Vanadium, Total	10	mg/L	.0157		.00075	.00075		03/27/2025	03/31/2025	WG199503
Zinc, Total	10	mg/L	.15		.005	.005	5	03/27/2025	03/31/2025	WG199503
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		03/27/2025	03/27/2025	WG199509

Client Sample ID: **LEPS250327P**
CoC / Lab Sample ID: **18759 / L85730-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **03/27/2025**
Login Date: **03/28/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0395		.0005	.0005	1	03/31/2025	03/31/2025	WG199565

Target Parameter Count for Report Group: 28

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Quality Control Data

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

Workgroup: WG199605 Dissolved Nutrients

MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.002	0.01	mg/L		U

MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrate Nitrogen	0.01	0.04	mg/L		U

SB:WG199605-3 MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0388	97		80--120

SB:WG199605-3 MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1	100		80--120

SB:WG199605-3 MB:WG199605-1 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	U	0.7	0.69	99		80--120

LCS:WG199605-4 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.05	0.0532	106		85--115

LCS:WG199605-4 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	1	100		85--115

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King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

LCS:WG199605-4 Matrix: BLANK WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.8	0.804	100		85--115

LD:WG199605-5 L85366-9 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHGW_EPZ Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.0035			0--20

LD:WG199605-5 L85366-9 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421422-CHGW_EPZ Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.027	0.027			0--20

MS:WG199605-6 L85366-9 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHGW_EPZ Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0413	103		75--125

MS:WG199605-6 L85366-9 Matrix: GRND WTR Listtype:CVNO3 Method:SM4500-NO3F NO3 Project:421422-CHGW_EPZ Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrate Nitrogen	0.01	0.04	mg/L	0.027	0.7	0.735	101		75--125

LD:WG199605-7 L85731-3 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.04	0.2	mg/L	0.257	0.264	2		0--20

LD:WG199605-7 L85731-3 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	0.315	0.321	2		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

MS:WG199605-8 L85731-3 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.04	0.2	mg/L	0.257	0.04	1.04	98		75--125

MS:WG199605-8 L85731-3 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	0.315	1	1.29	97		75--125

LD:WG199605-9 L85780-2 Matrix: IW WTR Listtype:CVNO23 Method:SM4500-NO3-F Project:421161 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	0.015	0.014			0--20

MS:WG199605-10 L85780-2 Matrix: IW WTR Listtype:CVNO23 Method:SM4500-NO3-F Project:421161 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	0.015	1	1.03	101		75--125

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

Workgroup: WG199607 Dissolved Nutrients

MB:WG199607-1 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.5	1	mg/L		U

SB:WG199607-3 MB:WG199607-1 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.5	1	mg/L	U	10	9.91	99		80--120

LCS:WG199607-4 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.5	1	mg/L	10	9.9	99		85--115

LD:WG199607-5 L85732-3 Matrix: LEACHATE Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421422-CHLS-M_MOD Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	1	2	mg/L	30.9	31.1	1		0--20

MS:WG199607-6 L85732-3 Matrix: LEACHATE Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	1	2	mg/L	30.9	10	51.2	102		75--125

LD:WG199607-7 L85780-2 Matrix: IW WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421161 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	5	10	mg/L	13.7	13.9	1		0--20

MS:WG199607-8 L85780-2 Matrix: IW WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421161 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	5	10	mg/L	13.7	10	115	102		75--125

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

Workgroup: WG199503 Total Metals by ICPMS

MB:WG199503-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L	3.83	<QL,J,B
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

SB:WG199503-2 MB:WG199503-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.9	99		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5350	107		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5240	105		85--115
Aluminum, Total	2.5	5	ug/L	3.83	200	210	105		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5050	101		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5180	104		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4960	99		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	21.1	105		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	22.2	111		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	22.2	111		85--115
Iron, Total	5	10	ug/L	<QL	5000	5270	105		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.2	106		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.5	112		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.9	109		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.7	103		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.7	103		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.7	104		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.5	103		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.1	100		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	22.1	111		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	22.3	112		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	22.8	114		85--115

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

MSD:WG199503-4 MS:WG199503-3 L85729-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.998	0.998	ug/L	<QL	200	195	97		75--125	200	194	97		0		0--20
Sodium, Total	998	998	ug/L	456000	49900	504000		4xRule	75--125	49900	508000		4xRule	1		0--20
Magnesium, Total	499	499	ug/L	34200	49900	85800	103		75--125	49900	85000	102		1		0--20
Aluminum, Total	49.9	49.9	ug/L	402	2000	2480	104		75--125	2000	2480	104		0		0--20
Phosphorus, Total	998	998	ug/L	3540	49900	54600	102		75--125	49900	55000	103		1		0--20
Potassium, Total	998	998	ug/L	168000	49900	217000	98		75--125	49900	222000	108		2		0--20
Calcium, Total	499	499	ug/L	83900	49900	134000	100		75--125	49900	133000	98		1		0--20
Vanadium, Total	0.749	0.749	ug/L	15.7	200	224	104		75--125	200	225	105		1		0--20
Chromium, Total	2	2	ug/L	53.4	200	268	108		75--125	200	268	107		0		0--20
Manganese, Total	0.998	0.998	ug/L	641	200	854	106		75--125	200	853	106		0		0--20
Iron, Total	99.8	99.8	ug/L	7880	49900	59400	103		75--125	49900	60000	105		1		0--20
Cobalt, Total	0.499	0.499	ug/L	12.2	200	225	107		75--125	200	223	106		1		0--20
Nickel, Total	0.998	0.998	ug/L	49.5	200	261	106		75--125	200	261	106		0		0--20
Copper, Total	2	2	ug/L	5.58	200	227	111		75--125	200	227	111		0		0--20
Zinc, Total	4.99	4.99	ug/L	150	200	362	106		75--125	200	360	105		1		0--20
Arsenic, Total	0.499	0.499	ug/L	43.6	200	251	104		75--125	200	250	103		1		0--20
Selenium, Total	4.99	4.99	ug/L	<QL	200	209	104		75--125	200	207	104		1		0--20
Silver, Total	0.399	0.399	ug/L	<QL	200	201	101		75--125	200	202	101		0		0--20
Cadmium, Total	0.499	0.499	ug/L	<QL	200	202	101		75--125	200	205	103		2		0--20
Tin, Total	4.99	4.99	ug/L	<QL	200	190	95		75--125	200	181	91		5		0--20
Antimony, Total	3	3	ug/L	6.06	200	213	103		75--125	200	210	102		1		0--20
Barium, Total	4.99	4.99	ug/L	68.2	200	285	108		75--125	200	281	107		1		0--20
Thallium, Total	0.749	0.749	ug/L	<QL	200	214	107		75--125	200	213	107		0		0--20
Lead, Total	0.998	0.998	ug/L	<QL	200	218	109		75--125	200	216	108		1		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

Workgroup: WG199509 Total & Dissolved Mercury by CVAA

MB:WG199509-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG199509-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199509-2 MB:WG199509-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.972	97		85--115

MSD:WG199509-4 MS:WG199509-3 L85731-3 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	2	100		75--125	2	2.03	102		1		0--20

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

King County Environmental Laboratory QC Report

CHLS-P_040225 COC 18732, 18759

Workgroup: WG199565 Total Metals by ICPMS

MB:WG199565-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG199565-2 MB:WG199565-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115

MSD:WG199565-4 MS:WG199565-3 L85730-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.496	0.496	ug/L	39.5	198	245	104		75--125	198	244	103		0		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 3/26/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18732**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: NR 3/26/25 LEPS (CHLSP (25.1)

Lab No.	Sample ID	Date	Time
85729-1	LEPS250325P	3/25/25	1700

Project Site Test Reference

2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHGW	CHGW	CHGW/VAGW	CHGW-OS	CFGW	DUGW	ENGW	HOGW	HTGW	PUGW	VAGW	CHSW-Q	CHSW-P	CHSW-TD	CHSW-E	CFSW	DUSW	VASW	HTSW-P	SHSW-P	FASW-P	ENSW-P	ALSW-P	VASW-P	CHTW	CHLS-M	CHLS-M_MOD	CHLS-M_As	CHLS-P	CHLS-P	CHLS-P	ALLS	BLLS	ENLS	FALS	SRLS	HTLS	RELS	VALS-P	VALS-Q
Cedar Hills GW Qlty	Cedar Hills EPZ GW Qlty	Appendix III GW	Cedar Hills GW Offsite	Cedar Falls GW Qlty	Duvall GW Qlty	Enumclaw GW Qlty	Hobart GW Qlty	Houghton GW Qlty	Puyallup GW Qlty	Vashon GW Qlty	Cedar Hills SW Sta. E-1	Cedar Hills SW ISGP	Cedar Hills SW Top Deck	CH Emergency	Cedar Falls SW Qlty	Duvall SW Qlty	Vashon SW Qlty-WEIRS	Houghton SW NPDES	Shoreline SW NPDES	Factoria SW NPDES	Enumclaw SW NPDES	Algona SW NPDES	Vashon SW NPDES	Cedar Hills Truckwash	Cedar Hills Leachate Mtly	CH Leachate Mods Mtly	CH Leachate As Semi-Ann.	CH L Permit (wkly, 1st)	CH L Permit (monthly)	CH L Permit (wkly, 2nd)	Algona WW Permit	Bow Lake WW Permit	Enumclaw WW Permit	Factoria WW Permit	Shoreline WW Permit	Houghton WW Permit	Renton WW Permit	Vashon WW Permit Tanker	Vashon Leachate Qlty
GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT											
																													X										

Number of Bottles	Remarks
2	LO.1

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85729 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE	1										
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 2	2										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	0.9, 1.1, 1.3	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3/26/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHCS-P (25.1)

Receive Date: 3/26/25 COC / SDG No.: 18732

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y*) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other: Nutrients field filtered			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Diaz

Date / Time Completed: MAR 26 '25 12:05

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Chain of Custody Record

Environmental Monitoring Program

Date: 3/28/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18759**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time	Number of Bottles	Remarks
85730-1	LEPS250327P	3/27/25	2300	1	

Project Site Test Reference

GROUNDWATER

2	2.1	4	38	5	6	7	8	9	10	12
CHGW Cedar Hills GW Qtly	CHGW Cedar Hills EPZ GW Qtly	CHGW/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qtly	DUGW Duvall GW Qtly	ENGW Enumclaw GW Qtly	HOGW Hobart GW Qtly	HTGW Houghton GW Qtly	PUGW Puyallup GW Qtly	VAGW Vashon GW Qtly

SURFACE WATER

14	16	42	49.1	17	18	21
CHSW-Q Cedar Hills SW Sta. E-I	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qtly	DUSW Duvall SW Qtly	VASW Vashon SW Qtly-WEIRS

TS

52	53	54	56	57	58
HTSW-P Houghton SW NPDES	SHSW-P Shorelina SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER

24	23	23+	23.1
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Semi-Ann.

PERMIT

25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qtly
		X									

	Date		Date	
Relinquished By Sampler: Hannah Spear	3/28/25	Received By		Observations/Comments/Special Instructions:
Sampler Signature: H. Spear		Signature		*Arsenic ONLY*
Sampler Printed Name: KCSWD	Time: 1025	Printed Name	Time	Total # of Bottles: 1
Company		Company		
Relinquished By	Date	Received By: Alex Trejo	Date: 3/28/25	
Signature		Signature: A. Trejo		
Printed Name	Time	Printed Name: KCEL	Time: 1025	
Company		Company		

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85370-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 1	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.6 / 1.1 / 1.3	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 3/27/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 3/28/25 COC / SDG No.: 18759

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
(ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Diaz

Date / Time Completed: MAR 28 '25 10:30

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

HYDROGEN SULFIDE GAS AT MANHOLE R10-52		
Instrument #	**Serial #**	**Calibration Date/Time**
RKI Eagle 2	E2E656	2/5/2025 @ 12:22
Sample Count	**Interval Time (sec)**	**Bump Test Date**
10100	60	3/7/2025 @ 08:53
H2S Readings		
Date	**Daily Max**	**Daily Average**
3/7/2025	0	0
3/8/2025	0	0
3/9/2025	0	0
3/10/2025	0	0
3/11/2025	0	0
3/12/2025	0	0
3/13/2025	0	0
3/14/2025	0	0

Docusign Envelope ID: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42

KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: MARCH

YEAR: 2025

	DUVALL						VASHON				HOBART		OTHER		
DATE	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		REMARKS
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1															
2															
3								2							
4		3													
5		3													
6								1							
7		1		1				1							
8															
9															
10				1				1							
11								2							
12								2							
13								2							
14		1						1							
15															
16															
17				2											
18				2											
19				2											
20								2							
21		3		1											
22															
23															
24								1		1					
25								2							
26								2							
27		3													
28								2							
29															
30															
31								2							
TOTAL	0	98000	0	63000	0	0	0	161000	0	7000	0	0	0	0	

Certificate Of Completion

Envelope Id: B06A7C38-7ECE-4B48-B7F2-5C65D41C7C42
Status: Completed
Subject: Complete with Docusign: 2025.03.07_EAGLE2TABLE.pdf, 7842-04_SMR_March2025.pdf, CHLS-P_031325 Re...
Source Envelope:
Document Pages: 69
Signatures: 3
Certificate Pages: 5
Initials: 1
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Envelope Originator:
Aaron Copado
401 5TH AVE
SEATTLE, WA 98104
acopado@kingcounty.gov
IP Address: 198.49.222.20

Record Tracking

Status: Original
4/15/2025 9:18:23 AM
Holder: Aaron Copado
acopado@kingcounty.gov
Location: DocuSign

Security Appliance Status: Connected
Pool: FedRamp

Storage Appliance Status: Connected
Pool: King County-Dept of Natural Resources-Solid Waste
Location: Docusign

Signer Events	Signature	Timestamp
Aaron Copado acopado@kingcounty.gov Environmental Scientist III KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 198.49.222.20	Sent: 4/15/2025 9:37:58 AM Viewed: 4/15/2025 9:38:08 AM Signed: 4/15/2025 9:38:19 AM
Electronic Record and Signature Disclosure: Not Offered via Docusign		
Jennifer Keune jennifer.keune@kingcounty.gov Interim Supervisor KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 67.160.11.161	Sent: 4/15/2025 9:38:21 AM Viewed: 4/15/2025 9:42:22 AM Signed: 4/15/2025 9:42:56 AM
Electronic Record and Signature Disclosure: Accepted: 3/31/2021 3:20:14 PM ID: 040441cf-883c-43c6-a4af-1ccb2ef73edc		

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 Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	4/15/2025 9:37:58 AM
Certified Delivered	Security Checked	4/15/2025 9:42:22 AM
Signing Complete	Security Checked	4/15/2025 9:42:56 AM
Completed	Security Checked	4/15/2025 9:42:56 AM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, King County-ZZDepartmentTemplate 03 (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

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At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a $0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact King County-ZZDepartmentTemplate 03:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: cipriano.dacanay@kingcounty.gov

To advise King County-ZZDepartmentTemplate 03 of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at cipriano.dacanay@kingcounty.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from King County-ZZDepartmentTemplate 03

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with King County-ZZDepartmentTemplate 03

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify King County-ZZDepartmentTemplate 03 as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by King County-ZZDepartmentTemplate 03 during the course of your relationship with King County-ZZDepartmentTemplate 03.

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14-Day Report for Discharge or Permit Violation

For more information on reporting requirements refer to your Permit, Section S4.D. If you have a Major/Minor Discharge Authorization refer to General Conditions D

Date: 04/15/25 **Company Name:** **King County Solid Waste Division (KCSWD)**

Permit/Authorization Number: 7842-04 **Sample Site Number: A90021**

1. **Description and Cause of Non-Compliance Event:** (include dates, times, locations; sample results and estimated gallons discharged)

In the last month, SWD became aware of the exceedances summarized in the table below.

Arsenic Loading (A90021)

Exceedance Date	Aware Date	Arsenic Concentration (mg/L)	Flow (gallons)	Arsenic Loading (lbs/day)
Permit Limit		*4.0*	*2,700,000*	*0.27*
3/25/25	04/11/25	0.0436	781,700	0.2842
3/27/25	04/11/25	0.0395	1,280,800	0.4219

KCSWD employs operational practices designed to minimize arsenic loading exceedances. This includes self-imposed limits on the volume of leachate discharged daily based on recent arsenic concentration data. Doing so allowed KCSWD to successfully comply with arsenic loading limits for virtually all of 2024. Seasonal variations in precipitation greatly affect KCSWD's ability to manage wastewater on-site using existing capacity, which increases the risk of exceeding the arsenic loading limit during wet periods.

During the month of March, KCSWD employed practices to ensure the lagoons were not in danger of overtopping. However, leachate levels in the onsite lagoons rose throughout that month as precipitation increased the rate of leachate generation. During the month of March, a combination of heavy rains and additional stormwater inputs made it difficult to manage our onsite lagoons levels. Elevated conductivity in the stormwater conveyance system immediately downstream of Area 7 indicated a possible failure of the control system that normally separates contaminated and clean stormwater. To restrict this flow of contaminated liquid into the environment, all stormwater from the west side of Area 7 was rerouted to the contaminated stormwater (CSW) lagoon. This additional level of unanticipated flow prompted KCSWD to discharge volumes in excess of those prescribed by self-imposed pumping limits designed to maintain compliance with arsenic loading limits. Based on laboratory analytical results, the larger volumes of wastewater discharged in March resulted in arsenic loading limit exceedances on two sampling days throughout the month. This caused an arsenic loading exceedance during the discharge on 3/25/25 and 3/27/25.

KCSWD is obligated to implement corrective actions specified in the Revised Compliance Order issued by KCIW on 10/29/19. The development and implementation of corrective actions outlined in that document continue.

Docusign Envelope ID: 10D00741-8862-4687-9C63-5FCAB2D1A24F

14-Day Report for Discharge or Permit Violation

2. Date and Time King County Notified: (requirement is within 24 hours of learning of violation unless event was spill or slug discharge then must have notified immediately)

Arsenic

Exceedance Date	Aware Date	Notification Date & Time	Notification Method	Recipient(s)
3/25/25	04/11/25	04/11/25 @ 11:04	Email	Girard Arnaud, info.KCIW@kingcounty.gov
3/27/25	04/11/25	04/11/25 @ 11:04	Email	Girard Arnaud, info.KCIW@kingcounty.gov

3. Corrective Actions Taken: (corrective actions taken to respond to the violation and ensure ongoing compliance.)

Arsenic

KCSWD is finalizing a workplan and arranging for a contractor so KCSWD and their consultant can start an investigation into the source of contaminated liquid. The workplan will be flexible, allowing the team to systematically trace the contaminated liquid back to the source. Once the source of the breach is determined, KCSWD will work to fix the failure appropriately, and in a timely manner. Onsite work is expected to commence as soon as a contractor can be mobilized. Once repairs are made and stormwater systems are cleaned and restored, KCSWD will cease to route clean stormwater to the wastewater system.

Discharges in excess of self-imposed pumping limits continued through 3/31/2025 to manage CSW levels. On 04/01/2025, KCSWD reinstated self-imposed pumping limits to maximize compliance with regulatory permit limits. We will continue to monitor arsenic concentrations closely to inform allowable discharge volumes.

KCSWD will continue to communicate circumstances that deviate from our routine discharge procedures to ensure there is no release (overtop) from our leachate lagoons and other secondary onsite storage.

The pilot-scale membrane bioreactor (MBR) commissioning was performed and the study commenced 01/31/2025 at Cedar Hills Regional Landfill. The pilot project ran for three weeks but shut down 2/24/2025 due to equipment failure. Pending the installation of replacement parts, the tentative restart of the MBR system is in May 2025. The MBR pilot system will treat samples of leachate from areas 5/6/7. The 13-week pilot study will evaluate effectiveness of MBR as a pretreatment technology for landfill leachate as part of a reverse osmosis (RO) treatment system designed to reduce arsenic concentrations. The results of the MBR pilot study will help inform any future RO system development.

Docusign Envelope ID: 10D00741-8862-4687-9C63-5FCAB2D1A24F

14-Day Report for Discharge or Permit Violation

4. If discharge violation, enter follow-up sample collection date and results: (may use subsequent self-monitoring sample if collected and analyzed within 14 days of learning of violation)

Exceedance Date	Aware Date	Resample Date(s)	Parameter	Loading Resample Result (lbs/day)	Compliant?
3/25/25	04/11/25	03/27/25	Arsenic Loading	0.4219	No
3/27/25	04/11/25	04/01/25	Arsenic Loading	N/A	N/A

Additional information regarding resampling results will be reported as part of the March 2025 Self-Monitoring Report for Cedar Hills.

ADDITIONAL SHEETS ATTACHED: oYES x NO

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information 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.

NAME: Jennifer Keune

SIGNATURE: DocuSigned by: Jennifer Keune 10F5...2F44A... DATE: Apr 15, 2025

TITLE: KCSWD Supervisor

Authorized Representative / Designated Authorized Representative*

(Please circle one of the above)

**All user reports must be signed by an authorized representative of the industrial user. "Authorized representative of industrial user" is defined by King County Code 28.82.050. If you are designated, a current Delegation of Signatory Authority must be on file at King County or completed and attached to this form.*

Please return this form and attachments to:

King County Industrial Waste **130 Nickerson Street – Suite 200**
Seattle, WA 98109-1658 Fax: 206-263-3001
-or- Email a signed PDF to: info.KCIW@kingcounty.gov

Docusign Envelope ID: 10D00741-8862-4687-9C63-5FCAB2D1A24F

14-Day Report for Discharge or Permit Violation

From general permit language

1. When monitoring data shows a violation, the permittee shall:

    a. Take immediate action to stop the violation and notify KCIW within 24 hours of learning of the violation.
    b. Collect a sample and submit new data to KCIW within 14 days of becoming aware of the violation.
    c. Submit a written report within 14 days of learning of the violation (*14-Day Report*). The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

2. In the event the permittee is unable to comply with any of the conditions of this permit because of a breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature, the permittee shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
    b. Immediately notify the emergency King County contact in section S1 so steps can be taken to prevent damage to the sewerage system.
    c. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent a recurrence.

From Section D of Major Discharge Authorizations

1. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:

    a. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem
    b. Immediately notify KCIW so steps can be taken to prevent damage to the sewer system
    c. Submit a written report within 14 days describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence

For SIU's Spills and Slug Discharges (from Permit language)

The Permittee shall notify King County Industrial Waste immediately in the event of a spill or slug discharge to the sanitary sewer. A written report regarding the cause of the spill and/or slug discharge shall be submitted to King County within five (5) days of date of occurrence. The report should explain the cause of the violation and corrective actions taken to respond to the violation and ensure ongoing compliance.

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

May 15, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator III, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD) DS AC

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of April 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 4/1/25, 4/6/25, 4/8/25, 4/10/25, 4/14/25, 4/17/25, 4/22/25, 4/24/25 and 4/29/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 4/2-4/9)
- Leachate Hauling Report (for April)

There were no arsenic exceedances that occurred during the month of April, and all other results met permit-specified limits.

Please contact me directly if you have any questions. I can be reached at (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD
Laura Belt, Engineer IV, KCSWD
Dan Swope, Engineer III, KCSWD
Grant Dornfeld, Engineer II, KCSWD

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** April 2025

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

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

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1	C	8.23	0.0284	0.1828	<0.0005	0.0016	0.037	0.2381	0.00692	0.0445	<0.001	0.00032	771700	
2													766300	
3													770200	
4													773500	
5													465800	
6	C		0.0275	0.1530									667200	
7													343900	
8	C	8.17	0.03	0.1948	<0.0005	0.0016	0.042	0.2727	0.00662	0.0430	<0.001	0.00033	778500	
9													579500	
10	C		0.0323	0.1723									639700	
11													787400	
12													620000	
13													608800	
14	C	8.2	0.035	0.1817	<0.0005	0.0013	0.0419	0.2175	0.00889	0.0461	0.00114	0.00592	622400	
15													659000	
16													625200	
17	C		0.0343	0.2224									777300	
18													634700	
19													318900	
20													237700	
21													0	
22	C	8.28	0.0358	0.1863	<0.0005	0.0013	0.0466	0.2425	0.00456	0.0237	<0.001	0.00263	624000	
23													0	
24	C		0.0397	0.2104									635600	
25													0	
26													563300	
27													605400	
28													0	
29	C	8.28	0.0452	0.2411	<0.0005	0.0013	0.0523	0.2789	0.00446	0.0238	<0.001	0.00269	639500	
30													0	
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: Date: May 15, 2025

Name and Signature of Principal Executive or Authorized Agent

Monthly Min pH	8.17	4/8/25	
Monthly Max pH	8.28	4/22,29/25	
Total Monthly Flow (gallons)	15,515,500		
Maximum Daily Flow	778,500	4/8/2025	

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** April 2025

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

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

Sample Date (circle)	Sample Type*	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1	C	<0.0001	0.00032	0.0355	0.228	<0.0004	0.0013	0.148	0.953	<0.1			
2													
3													
4													
5													
6													
7													
8	C	<0.0001	0.00032	0.0389	0.253	<0.0004	0.0013	0.133	0.864	<0.1			
9													
10													
11													
12													
13													
14	C	<0.0001	0.00026	0.0431	0.224	<0.0004	0.0011	0.154	0.799	<0.1	318	<.02	
15													
16													
17													
18													
19													
20													
21													
22	C	<0.0001	0.00026	0.0434	0.226	<0.0004	0.0010	0.0956	0.498	<0.1			
23													
24													
25													
26													
27													
28													
29	C	<0.0001	0.00027	0.0487	0.260	<0.0004	0.0011	0.0999	0.533	<0.1			
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.

May 15, 2025

DocuSigned by:
Jennifer Hume
A0E5C0A0E2E44A...

Name and Signature of Principal Executive or Authorized Agent — Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** April 2025

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10					
11					
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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: Jennifer Kunz — May 15, 2025

Name and Title of Principal Executive or Authorized Agent — Date

Monthly **MAX** 0 Date 4/2/25-4/9/25

Monthly **AVG** 0

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

May 2, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250401P	4/1/2025	18741
LEPS250406P	4/6/2025	18652
LEPS250408P	4/8/2025	18766
LEPS250410P	4/10/2025	18706
LEPS250410F	4/10/2025	
LEPS250414P	4/14/2025	18656
LEPS250414D	4/14/2025	
LEPS250417P	4/17/2025	18734
LEPS250422P	4/22/2025	18817
LEPS250424P	4/24/2025	18778

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 10 leachate permit samples collected April 1 through 24, 2025.

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Sample Receiving Comments
No sample receiving anomalies were observed.

Conventionals QC Information
All calculable QC results for conventionals parameters were within laboratory control limits with the following exception.

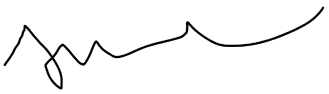
During **Nitrate+Nitrite Nitrogen** analysis of samples LEPS250414P and LEPS250414D, the background color of the sample interfered with the determination of nitrate+nitrite nitrogen. Samples LEPS250414P and LEPS250414D were diluted to mitigate the color interference. At the reported dilutions, any nitrate+nitrite nitrogen that may have been present in samples LEPS250414P and LEPS250414D was diluted to less than the DL.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Sample Data

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/02/2025
Report Group: CHLS-P_041025

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

Client Sample ID: **LEPS250406P**
SDG / Lab Sample ID: **18652 / L85784-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/06/2025**
Login Date: **04/08/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250414P**
SDG / Lab Sample ID: **18656 / L85889-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/14/2025**
Login Date: **04/15/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250414D**
SDG / Lab Sample ID: **18656 / L85889-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/14/2025**
Login Date: **04/15/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250410P**
SDG / Lab Sample ID: **18706 / L85828-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/10/2025**
Login Date: **04/11/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250410F**
SDG / Lab Sample ID: **18706 / L85828-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/10/2025**
Login Date: **04/11/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250417P**
SDG / Lab Sample ID: **18734 / L85894-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/17/2025**
Login Date: **04/18/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250401P**
SDG / Lab Sample ID: **18741 / L85784-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/01/2025**
Login Date: **04/03/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250408P**
SDG / Lab Sample ID: **18766 / L85823-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/08/2025**
Login Date: **04/09/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250424P**
SDG / Lab Sample ID: **18778 / L85923-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/24/2025**
Login Date: **04/25/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250422P**
SDG / Lab Sample ID: **18817 / L85923-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **04/22/2025**
Login Date: **04/24/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/02/2025
Report Group: CHLS-P_041025

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

Client Sample ID: **LEPS250406P**
CoC / Lab Sample ID: **18652 / L85784-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/06/2025**
Login Date: **04/08/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0275		.000502	.000502	1	04/10/2025	04/11/2025	WG199729

Client Sample ID: **LEPS250414P**
CoC / Lab Sample ID: **18656 / L85889-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/14/2025**
Login Date: **04/15/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	25	mg/L	314		13	25		04/17/2025	04/17/2025	WG199844
Nitrate + Nitrite as N	2	mg/L	<.02	U	.02	.08		04/18/2025	04/18/2025	WG199904

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.98		.0506	.0506		04/17/2025	04/21/2025	WG199827
Antimony, Total	10	mg/L	.00484		.00304	.00304		04/17/2025	04/21/2025	WG199827
Arsenic, Total	10	mg/L	.035		.000506	.000506	1	04/17/2025	04/21/2025	WG199827
Barium, Total	10	mg/L	.0614	D	.00506	.00506		04/17/2025	04/21/2025	WG199827
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		04/17/2025	04/21/2025	WG199827
Cadmium, Total	10	mg/L	<.000506	U	.000506	.000506	0.5	04/17/2025	04/21/2025	WG199827
Calcium, Total	10	mg/L	84.3		.506	.506		04/17/2025	04/21/2025	WG199827
Chromium, Total	10	mg/L	.0419		.00202	.00202	2.75	04/17/2025	04/21/2025	WG199827
Cobalt, Total	10	mg/L	.0104		.000506	.000506		04/17/2025	04/21/2025	WG199827
Copper, Total	10	mg/L	.00807		.00202	.00202	3	04/17/2025	04/21/2025	WG199827
Iron, Total	10	mg/L	7.84		.101	.101		04/17/2025	04/21/2025	WG199827
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	04/17/2025	04/21/2025	WG199827
Magnesium, Total	10	mg/L	28.9		.506	.506		04/17/2025	04/21/2025	WG199827
Manganese, Total	10	mg/L	.725		.00101	.00101		04/17/2025	04/21/2025	WG199827
Nickel, Total	10	mg/L	.0428		.00101	.00101	2.5	04/17/2025	04/21/2025	WG199827
Phosphorus, Total	10	mg/L	3.43		1.01	1.01		04/17/2025	04/21/2025	WG199827
Potassium, Total	10	mg/L	144		1.01	1.01		04/17/2025	04/21/2025	WG199827
Selenium, Total	10	mg/L	<.00506	U	.00506	.00506		04/17/2025	04/21/2025	WG199827
Silver, Total	10	mg/L	<.000405	U	.000405	.000405	1	04/17/2025	04/21/2025	WG199827
Sodium, Total	10	mg/L	396		1.01	1.01		04/17/2025	04/21/2025	WG199827
Thallium, Total	10	mg/L	<.000759	U	.000759	.000759		04/17/2025	04/21/2025	WG199827
Tin, Total	10	mg/L	<.00506	U	.00506	.00506		04/17/2025	04/21/2025	WG199827
Vanadium, Total	10	mg/L	.0145		.000759	.000759		04/17/2025	04/21/2025	WG199827
Zinc, Total	10	mg/L	.152		.00506	.00506	5	04/17/2025	04/21/2025	WG199827
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/21/2025	04/21/2025	WG199897

Client Sample ID: **LEPS250414D**
CoC / Lab Sample ID: **18656 / L85889-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/14/2025**
Login Date: **04/15/2025**
Matrix: **LEACHATE**

Conventionals

Client Sample ID: **LEPS250414D** Collect Date: **04/14/2025**
CoC / Lab Sample ID: **18656 / L85889-2** Login Date: **04/15/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	25	mg/L	318		13	25		04/17/2025	04/17/2025	WG199844
Nitrate + Nitrite as N	2	mg/L	<.02	U	.02	.08		04/18/2025	04/18/2025	WG199904

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.943		.0507	.0507		04/17/2025	04/21/2025	WG199827
Antimony, Total	10	mg/L	.00464		.00304	.00304		04/17/2025	04/21/2025	WG199827
Arsenic, Total	10	mg/L	.0345		.000507	.000507	1	04/17/2025	04/21/2025	WG199827
Barium, Total	10	mg/L	.0763	D	.00507	.00507		04/17/2025	04/21/2025	WG199827
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		04/17/2025	04/21/2025	WG199827
Cadmium, Total	10	mg/L	<.000507	U	.000507	.000507	0.5	04/17/2025	04/21/2025	WG199827
Calcium, Total	10	mg/L	83.1		.507	.507		04/17/2025	04/21/2025	WG199827
Chromium, Total	10	mg/L	.041		.00203	.00203	2.75	04/17/2025	04/21/2025	WG199827
Cobalt, Total	10	mg/L	.0104		.000507	.000507		04/17/2025	04/21/2025	WG199827
Copper, Total	10	mg/L	.00889		.00203	.00203	3	04/17/2025	04/21/2025	WG199827
Iron, Total	10	mg/L	7.66		.101	.101		04/17/2025	04/21/2025	WG199827
Lead, Total	10	mg/L	.00114		.00101	.00101	2	04/17/2025	04/21/2025	WG199827
Magnesium, Total	10	mg/L	28.5		.507	.507		04/17/2025	04/21/2025	WG199827
Manganese, Total	10	mg/L	.711		.00101	.00101		04/17/2025	04/21/2025	WG199827
Nickel, Total	10	mg/L	.0431		.00101	.00101	2.5	04/17/2025	04/21/2025	WG199827
Phosphorus, Total	10	mg/L	3.33		1.01	1.01		04/17/2025	04/21/2025	WG199827
Potassium, Total	10	mg/L	144		1.01	1.01		04/17/2025	04/21/2025	WG199827
Selenium, Total	10	mg/L	<.00507	U	.00507	.00507		04/17/2025	04/21/2025	WG199827
Silver, Total	10	mg/L	<.000405	U	.000405	.000405	1	04/17/2025	04/21/2025	WG199827
Sodium, Total	10	mg/L	395		1.01	1.01		04/17/2025	04/21/2025	WG199827
Thallium, Total	10	mg/L	<.00076	U	.00076	.00076		04/17/2025	04/21/2025	WG199827
Tin, Total	10	mg/L	<.00507	U	.00507	.00507		04/17/2025	04/21/2025	WG199827
Vanadium, Total	10	mg/L	.0142		.00076	.00076		04/17/2025	04/21/2025	WG199827
Zinc, Total	10	mg/L	.154		.00507	.00507	5	04/17/2025	04/21/2025	WG199827
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		04/21/2025	04/21/2025	WG199897

Client Sample ID: **LEPS250410P** Collect Date: **04/10/2025**
CoC / Lab Sample ID: **18706 / L85828-1** Login Date: **04/11/2025**
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
Arsenic, Total	10	mg/L	.0323		.000498	.000498	1	04/15/2025	04/16/2025	WG199787

Client Sample ID: **LEPS250410F** Collect Date: **04/10/2025**
CoC / Lab Sample ID: **18706 / L85828-2** Login Date: **04/11/2025**
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
Arsenic, Total	10	mg/L	<.000496	U	.000496	.000496	1	04/15/2025	04/16/2025	WG199787

Client Sample ID: **LEPS250417P** Collect Date: **04/17/2025**
CoC / Lab Sample ID: **18734 / L85894-1** Login Date: **04/18/2025**
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

Client Sample ID: **LEPS250417P** Collect Date: **04/17/2025**
CoC / Lab Sample ID: **18734 / L85894-1** Login Date: **04/18/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Arsenic, Total	**10**	**mg/L**	**.0343**		**.000501**	**.000501**	**1**	**04/21/2025**	**04/22/2025**	**WG199874**

Client Sample ID: **LEPS250401P** Collect Date: **04/01/2025**
CoC / Lab Sample ID: **18741 / L85784-1** Login Date: **04/03/2025**
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**	**.55**		**.05**	**.05**		**04/04/2025**	**04/07/2025**	**WG199640**
Antimony, Total	**10**	**mg/L**	**.00414**		**.003**	**.003**		**04/04/2025**	**04/07/2025**	**WG199640**
Arsenic, Total	**10**	**mg/L**	**.0284**		**.0005**	**.0005**	**1**	**04/04/2025**	**04/07/2025**	**WG199640**
Barium, Total	**10**	**mg/L**	**.0548**		**.005**	**.005**		**04/04/2025**	**04/07/2025**	**WG199640**
Beryllium, Total	**10**	**mg/L**	**<.001**	**U**	**.001**	**.001**		**04/04/2025**	**04/07/2025**	**WG199640**
Cadmium, Total	**10**	**mg/L**	**<.0005**	**U**	**.0005**	**.0005**	**0.5**	**04/04/2025**	**04/07/2025**	**WG199640**
Calcium, Total	**10**	**mg/L**	**73.9**		**.5**	**.5**		**04/04/2025**	**04/07/2025**	**WG199640**
Chromium, Total	**10**	**mg/L**	**.037**		**.002**	**.002**	**2.75**	**04/04/2025**	**04/07/2025**	**WG199640**
Cobalt, Total	**10**	**mg/L**	**.00914**		**.0005**	**.0005**		**04/04/2025**	**04/07/2025**	**WG199640**
Copper, Total	**10**	**mg/L**	**.00692**		**.002**	**.002**	**3**	**04/04/2025**	**04/07/2025**	**WG199640**
Iron, Total	**10**	**mg/L**	**6.27**		**.1**	**.1**		**04/04/2025**	**04/07/2025**	**WG199640**
Lead, Total	**10**	**mg/L**	**<.001**	**U**	**.001**	**.001**	**2**	**04/04/2025**	**04/07/2025**	**WG199640**
Magnesium, Total	**10**	**mg/L**	**26.5**		**.5**	**.5**		**04/04/2025**	**04/07/2025**	**WG199640**
Manganese, Total	**10**	**mg/L**	**.622**		**.001**	**.001**		**04/04/2025**	**04/07/2025**	**WG199640**
Nickel, Total	**10**	**mg/L**	**.0355**		**.001**	**.001**	**2.5**	**04/04/2025**	**04/07/2025**	**WG199640**
Phosphorus, Total	**10**	**mg/L**	**2.63**		**1**	**1**		**04/04/2025**	**04/07/2025**	**WG199640**
Potassium, Total	**10**	**mg/L**	**119**		**1**	**1**		**04/04/2025**	**04/07/2025**	**WG199640**
Selenium, Total	**10**	**mg/L**	**<.005**	**U**	**.005**	**.005**		**04/04/2025**	**04/07/2025**	**WG199640**
Silver, Total	**10**	**mg/L**	**<.0004**	**U**	**.0004**	**.0004**	**1**	**04/04/2025**	**04/07/2025**	**WG199640**
Sodium, Total	**10**	**mg/L**	**314**		**1**	**1**		**04/04/2025**	**04/07/2025**	**WG199640**
Thallium, Total	**10**	**mg/L**	**<.00075**	**DU**	**.00075**	**.00075**		**04/04/2025**	**04/07/2025**	**WG199640**
Tin, Total	**10**	**mg/L**	**<.005**	**U**	**.005**	**.005**		**04/04/2025**	**04/07/2025**	**WG199640**
Vanadium, Total	**10**	**mg/L**	**.0114**		**.00075**	**.00075**		**04/04/2025**	**04/07/2025**	**WG199640**
Zinc, Total	**10**	**mg/L**	**.148**		**.005**	**.005**	**5**	**04/04/2025**	**04/07/2025**	**WG199640**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**04/04/2025**	**04/07/2025**	**WG199654**

Client Sample ID: **LEPS250408P** Collect Date: **04/08/2025**
CoC / Lab Sample ID: **18766 / L85823-1** Login Date: **04/09/2025**
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**	**.651**		**.0504**	**.0504**		**04/10/2025**	**04/11/2025**	**WG199729**
Antimony, Total	**10**	**mg/L**	**.00412**		**.00303**	**.00303**		**04/10/2025**	**04/11/2025**	**WG199729**
Arsenic, Total	**10**	**mg/L**	**.03**		**.000504**	**.000504**	**1**	**04/10/2025**	**04/11/2025**	**WG199729**
Barium, Total	**10**	**mg/L**	**.0576**		**.00504**	**.00504**		**04/10/2025**	**04/11/2025**	**WG199729**
Beryllium, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**		**04/10/2025**	**04/11/2025**	**WG199729**
Cadmium, Total	**10**	**mg/L**	**<.000504**	**U**	**.000504**	**.000504**	**0.5**	**04/10/2025**	**04/11/2025**	**WG199729**
Calcium, Total	**10**	**mg/L**	**72.6**		**.504**	**.504**		**04/10/2025**	**04/11/2025**	**WG199729**
Chromium, Total	**10**	**mg/L**	**.042**		**.00202**	**.00202**	**2.75**	**04/10/2025**	**04/11/2025**	**WG199729**
Cobalt, Total	**10**	**mg/L**	**.00967**		**.000504**	**.000504**		**04/10/2025**	**04/11/2025**	**WG199729**
Copper, Total	**10**	**mg/L**	**.00662**		**.00202**	**.00202**	**3**	**04/10/2025**	**04/11/2025**	**WG199729**
Iron, Total	**10**	**mg/L**	**5.79**		**.101**	**.101**		**04/10/2025**	**04/11/2025**	**WG199729**
Lead, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**	**2**	**04/10/2025**	**04/11/2025**	**WG199729**
Magnesium, Total	**10**	**mg/L**	**28.8**		**.504**	**.504**		**04/10/2025**	**04/11/2025**	**WG199729**
Manganese, Total	**10**	**mg/L**	**.634**		**.00101**	**.00101**		**04/10/2025**	**04/11/2025**	**WG199729**

Client Sample ID: **LEPS250408P** | Collect Date: **04/08/2025**
CoC / Lab Sample ID: **18766 / L85823-1** | Login Date: **04/09/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** | Matrix: **LEACHATE**

Nickel, Total	**10**	**mg/L**	**.0389**		**.00101**	**.00101**	**2.5**	**04/10/2025**	**04/11/2025**	**WG199729**
Phosphorus, Total	**10**	**mg/L**	**2.82**		**1.01**	**1.01**		**04/10/2025**	**04/11/2025**	**WG199729**
Potassium, Total	**10**	**mg/L**	**132**		**1.01**	**1.01**		**04/10/2025**	**04/11/2025**	**WG199729**
Selenium, Total	**10**	**mg/L**	**<.00504**	**U**	**.00504**	**.00504**		**04/10/2025**	**04/11/2025**	**WG199729**
Silver, Total	**10**	**mg/L**	**<.000403**	**U**	**.000403**	**.000403**	**1**	**04/10/2025**	**04/11/2025**	**WG199729**
Sodium, Total	**10**	**mg/L**	**349**		**1.01**	**1.01**		**04/10/2025**	**04/11/2025**	**WG199729**
Thallium, Total	**10**	**mg/L**	**<.000756**	**U**	**.000756**	**.000756**		**04/10/2025**	**04/11/2025**	**WG199729**
Tin, Total	**10**	**mg/L**	**<.00504**	**U**	**.00504**	**.00504**		**04/10/2025**	**04/11/2025**	**WG199729**
Vanadium, Total	**10**	**mg/L**	**.0131**		**.000756**	**.000756**		**04/10/2025**	**04/11/2025**	**WG199729**
Zinc, Total	**10**	**mg/L**	**.133**		**.00504**	**.00504**	**5**	**04/10/2025**	**04/11/2025**	**WG199729**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**04/10/2025**	**04/10/2025**	**WG199745**

Client Sample ID: **LEPS250424P** | Collect Date: **04/24/2025**
CoC / Lab Sample ID: **18778 / L85923-2** | Login Date: **04/25/2025**
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
Arsenic, Total	**10**	**mg/L**	**.0397**		**.000505**	**.000505**	**1**	**04/28/2025**	**04/30/2025**	**WG200031**

Client Sample ID: **LEPS250422P** | Collect Date: **04/22/2025**
CoC / Lab Sample ID: **18817 / L85923-1** | Login Date: **04/24/2025**
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
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**04/25/2025**	**04/25/2025**	**WG200019**
Aluminum, Total	**10**	**mg/L**	**.47**		**.0504**	**.0504**		**04/28/2025**	**04/30/2025**	**WG200031**
Antimony, Total	**10**	**mg/L**	**.00543**		**.00302**	**.00302**		**04/28/2025**	**04/30/2025**	**WG200031**
Arsenic, Total	**10**	**mg/L**	**.0358**		**.000504**	**.000504**	**1**	**04/28/2025**	**04/30/2025**	**WG200031**
Barium, Total	**10**	**mg/L**	**.064**		**.00504**	**.00504**		**04/28/2025**	**04/30/2025**	**WG200031**
Beryllium, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**		**04/28/2025**	**04/30/2025**	**WG200031**
Cadmium, Total	**10**	**mg/L**	**<.000504**	**U**	**.000504**	**.000504**	**0.5**	**04/28/2025**	**04/30/2025**	**WG200031**
Calcium, Total	**10**	**mg/L**	**75.2**		**.504**	**.504**		**04/28/2025**	**04/30/2025**	**WG200031**
Chromium, Total	**10**	**mg/L**	**.0466**		**.00202**	**.00202**	**2.75**	**04/28/2025**	**04/30/2025**	**WG200031**
Cobalt, Total	**10**	**mg/L**	**.0106**		**.000504**	**.000504**		**04/28/2025**	**04/30/2025**	**WG200031**
Copper, Total	**10**	**mg/L**	**.00456**		**.00202**	**.00202**	**3**	**04/28/2025**	**04/30/2025**	**WG200031**
Iron, Total	**10**	**mg/L**	**5.98**		**.101**	**.101**		**04/28/2025**	**04/30/2025**	**WG200031**
Lead, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**	**2**	**04/28/2025**	**04/30/2025**	**WG200031**
Magnesium, Total	**10**	**mg/L**	**31.7**		**.504**	**.504**		**04/28/2025**	**04/30/2025**	**WG200031**
Manganese, Total	**10**	**mg/L**	**.614**		**.00101**	**.00101**		**04/28/2025**	**04/30/2025**	**WG200031**
Nickel, Total	**10**	**mg/L**	**.0434**		**.00101**	**.00101**	**2.5**	**04/28/2025**	**04/30/2025**	**WG200031**
Phosphorus, Total	**10**	**mg/L**	**2.43**		**1.01**	**1.01**		**04/28/2025**	**04/30/2025**	**WG200031**
Potassium, Total	**10**	**mg/L**	**153**		**1.01**	**1.01**		**04/28/2025**	**04/30/2025**	**WG200031**
Selenium, Total	**10**	**mg/L**	**<.00504**	**U**	**.00504**	**.00504**		**04/28/2025**	**04/30/2025**	**WG200031**
Silver, Total	**10**	**mg/L**	**<.000403**	**U**	**.000403**	**.000403**	**1**	**04/28/2025**	**04/30/2025**	**WG200031**
Sodium, Total	**10**	**mg/L**	**420**		**1.01**	**1.01**		**04/28/2025**	**04/30/2025**	**WG200031**
Thallium, Total	**10**	**mg/L**	**<.000756**	**U**	**.000756**	**.000756**		**04/28/2025**	**04/30/2025**	**WG200031**
Tin, Total	**10**	**mg/L**	**<.00504**	**U**	**.00504**	**.00504**		**04/28/2025**	**04/30/2025**	**WG200031**
Vanadium, Total	**10**	**mg/L**	**.0136**		**.000756**	**.000756**		**04/28/2025**	**04/30/2025**	**WG200031**
Zinc, Total	**10**	**mg/L**	**.0956**		**.00504**	**.00504**	**5**	**04/28/2025**	**04/30/2025**	**WG200031**

Target Parameter Count for Report Group: 134

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Quality Control Data

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199844 Dissolved Nutrients

MB:WG199844-1 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.5	1	mg/L		U

SB:WG199844-3 MB:WG199844-1 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.5	1	mg/L	U	10	10.9	109		80--120

LCS:WG199844-4 Matrix: BLANK WTR Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.5	1	mg/L	10	10.1	101		85--115

LD:WG199844-5 L85824-4 Matrix: LEACHATE Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	13	25	mg/L	735	718	2		0--20

MS:WG199844-6 L85826-3 Matrix: LEACHATE Listtype:CVNH3-HACH-H Method:SM4500-NH3-F Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	50	100	mg/L	1590	10	2610	102		75--125

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199904 Dissolved Nutrients

MB:WG199904-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

LCS:WG199904-3 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	1.05	105		85--115

LD:WG199904-4 L85826-1 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M_MOD Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	1.85	1.72	7		0--20

MS:WG199904-5 L85826-1 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	1.85	1	6.94	102		75--125

SB:WG199904-6 MB:WG199904-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1	100		80--120

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199640 Total Metals by ICPMS

MB:WG199640-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

SB:WG199640-2 MB:WG199640-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.8	99		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5460	109		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5360	107		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	206	103		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4740	95		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5100	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4770	95		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.2	101		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.7	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5190	104		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	22.1	110		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.6	108		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.5	107		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.8	104		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.4	102		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.7	103		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.8	104		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21.1	106		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	22.9	114		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.7	104		85--115

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

MSD:WG199640-4 MS:WG199640-3 L85784-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.995	0.995	ug/L	<QL	199	200	101		75--125	197	200	101		0		0--20
Sodium, Total	995	995	ug/L	314000	49700	359000		4xRule	75--125	49400	368000		4xRule	2		0--20
Magnesium, Total	497	497	ug/L	26500	49700	77800	103		75--125	49400	76000	100		2		0--20
Aluminum, Total	49.7	49.7	ug/L	550	1990	2630	104		75--125	1970	2580	103		2		0--20
Phosphorus, Total	995	995	ug/L	2630	49700	50500	96		75--125	49400	50700	97		0		0--20
Potassium, Total	995	995	ug/L	119000	49700	166000	95		75--125	49400	170000	104		3		0--20
Calcium, Total	497	497	ug/L	73900	49700	121000	95		75--125	49400	122000	97		0		0--20
Vanadium, Total	0.746	0.746	ug/L	11.4	199	212	101		75--125	197	211	101		0		0--20
Chromium, Total	1.99	1.99	ug/L	37	199	246	105		75--125	197	244	105		1		0--20
Manganese, Total	0.995	0.995	ug/L	622	199	823	101		75--125	197	824	102		0		0--20
Iron, Total	99.5	99.5	ug/L	6270	49700	57900	104		75--125	49400	57600	104		1		0--20
Cobalt, Total	0.497	0.497	ug/L	9.14	199	227	109		75--125	197	225	109		1		0--20
Nickel, Total	0.995	0.995	ug/L	35.5	199	244	105		75--125	197	243	105		0		0--20
Copper, Total	1.99	1.99	ug/L	6.92	199	216	105		75--125	197	216	106		0		0--20
Zinc, Total	4.97	4.97	ug/L	148	199	356	104		75--125	197	354	104		0		0--20
Arsenic, Total	0.497	0.497	ug/L	28.4	199	229	101		75--125	197	227	101		1		0--20
Selenium, Total	4.97	4.97	ug/L	<QL	199	208	104		75--125	197	208	105		0		0--20
Silver, Total	0.398	0.398	ug/L	<QL	199	197	99		75--125	197	196	99		0		0--20
Cadmium, Total	0.497	0.497	ug/L	<QL	199	205	103		75--125	197	204	103		0		0--20
Tin, Total	4.97	4.97	ug/L	<QL	199	188	94		75--125	197	184	93		2		0--20
Antimony, Total	2.98	2.98	ug/L	4.14	199	213	105		75--125	197	208	103		2		0--20
Barium, Total	4.97	4.97	ug/L	54.8	199	270	108		75--125	197	260	104		4		0--20
Thallium, Total	0.746	0.746	ug/L	<QL	199	209	105		75--125	197	187	95		11		0--20
Lead, Total	0.995	0.995	ug/L	<QL	199	211	106		75--125	197	209	106		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199654 Total & Dissolved Mercury by CVAA

MB:WG199654-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG199654-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199654-2 MB:WG199654-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.943	94		85--115

MSD:WG199654-4 MS:WG199654-3 L85732-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.99	99		75--125	2	2.01	100		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199729 Total Metals by ICPMS

MB:WG199729-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

SB:WG199729-2 MB:WG199729-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.7	103		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5100	102		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5190	104		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	201	100		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4790	96		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4940	99		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4700	94		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	19.9	100		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.4	102		85--115
Iron, Total	5	10	ug/L	<QL	5000	5160	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.7	108		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.3	106		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.2	106		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.5	102		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.4	97		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.8	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.3	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.8	99		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20	100		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.1	100		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.7	103		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.4	107		85--115

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King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

MSD:WG199729-4 MS:WG199729-3 L85823-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.991	0.991	ug/L	<QL	198	207	104		75--125	200	202	101		3		0--20
Sodium, Total	991	991	ug/L	349000	49500	392000		4xRule	75--125	49900	391000		4xRule	0		0--20
Magnesium, Total	495	495	ug/L	28800	49500	78900	101		75--125	49900	78900	100		0		0--20
Aluminum, Total	49.5	49.5	ug/L	651	1980	2670	102		75--125	2000	2680	102		0		0--20
Phosphorus, Total	991	991	ug/L	2820	49500	50700	97		75--125	49900	50900	96		0		0--20
Potassium, Total	991	991	ug/L	132000	49500	179000	95		75--125	49900	180000	96		1		0--20
Calcium, Total	495	495	ug/L	72600	49500	119000	94		75--125	49900	121000	97		2		0--20
Vanadium, Total	0.743	0.743	ug/L	13.1	198	209	99		75--125	200	211	99		1		0--20
Chromium, Total	1.98	1.98	ug/L	42	198	248	104		75--125	200	250	104		1		0--20
Manganese, Total	0.991	0.991	ug/L	634	198	830	99		75--125	200	835	101		1		0--20
Iron, Total	99.1	99.1	ug/L	5790	49500	55700	101		75--125	49900	56200	101		1		0--20
Cobalt, Total	0.495	0.495	ug/L	9.67	198	225	108		75--125	200	226	108		1		0--20
Nickel, Total	0.991	0.991	ug/L	38.9	198	247	105		75--125	200	249	105		0		0--20
Copper, Total	1.98	1.98	ug/L	6.62	198	216	105		75--125	200	216	105		0		0--20
Zinc, Total	4.95	4.95	ug/L	133	198	338	104		75--125	200	338	103		0		0--20
Arsenic, Total	0.495	0.495	ug/L	30	198	224	98		75--125	200	228	99		1		0--20
Selenium, Total	4.95	4.95	ug/L	<QL	198	205	103		75--125	200	207	103		1		0--20
Silver, Total	0.396	0.396	ug/L	<QL	198	191	96		75--125	200	192	96		0		0--20
Cadmium, Total	0.495	0.495	ug/L	<QL	198	200	101		75--125	200	200	100		0		0--20
Tin, Total	4.95	4.95	ug/L	<QL	198	193	97		75--125	200	193	97		0		0--20
Antimony, Total	2.97	2.97	ug/L	4.12	198	206	102		75--125	200	209	102		1		0--20
Barium, Total	4.95	4.95	ug/L	57.6	198	256	100		75--125	200	265	104		3		0--20
Thallium, Total	0.743	0.743	ug/L	<QL	198	204	103		75--125	200	206	103		1		0--20
Lead, Total	0.991	0.991	ug/L	<QL	198	210	106		75--125	200	216	108		3		0--20

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King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199745 Total Mercury by CVAA

MB:WG199745-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199745-2 MB:WG199745-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.967	97		85--115

MSD:WG199745-4 MS:WG199745-3 L85823-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.88	94		75--125	2	1.9	95		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199787 Total Metals by ICPMS

MB:WG199787-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG199787-2 MB:WG199787-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.1	101		85--115

MSD:WG199787-4 MS:WG199787-3 L85828-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.495	0.495	ug/L	32.3	198	229	99		75--125	199	230	99		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199827 Total Metals & Hardness by ICPMS

MB:WG199827-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Hardness, Calc	0.165	0.331	mg CaCO3/L		<QL

MB:WG199827-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

SB:WG199827-2 MB:WG199827-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Hardness, Calc	0.165	0.331	mg CaCO3/L	<QL	33.1	32.5	98		85--115

SB:WG199827-2 MB:WG199827-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.3	97		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5490	110		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	4890	98		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	212	106		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4980	100		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5350	107		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4920	98		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.5	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	19.4	97		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5250	105		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.7	109		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22.1	110		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.3	106		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.5	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.6	103		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	21.9	109		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	21.5	108		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.1	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.2	106		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115

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King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

MSD:WG199827-4 MS:WG199827-3 L85826-1 Matrix: LEACHATE Listtype:MTHARD-ICPMS-QL Method:EPA 200.8(MOD)/SW6020B*SM2340B Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Hardness, Calc	3.32	3.32	mg CaCO3/L	161	33.1	485		4xRule	75--125	33.1	493		4xRule	2		0--20

MSD:WG199827-4 MS:WG199827-3 L85826-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	201	201	100		75--125	199	203	102		1		0--20
Sodium, Total	1000	1000	ug/L	115000	50200	165000	99		75--125	49800	166000	102		1		0--20
Magnesium, Total	502	502	ug/L	14300	50200	64100	99		75--125	49800	65400	103		2		0--20
Aluminum, Total	50.2	50.2	ug/L	146	2010	2260	105		75--125	1990	2250	106		0		0--20
Potassium, Total	1000	1000	ug/L	38100	50200	90600	104		75--125	49800	92200	109		2		0--20
Calcium, Total	502	502	ug/L	40900	50200	88700	95		75--125	49800	89600	98		1		0--20
Vanadium, Total	0.754	0.754	ug/L	2.96	201	208	102		75--125	199	208	103		0		0--20
Chromium, Total	2.01	2.01	ug/L	9.19	201	207	99		75--125	199	211	102		2		0--20
Manganese, Total	1	1	ug/L	602	201	794	95		75--125	199	803	101		1		0--20
Iron, Total	100	100	ug/L	3480	50200	55900	104		75--125	49800	55400	104		1		0--20
Cobalt, Total	0.502	0.502	ug/L	2.38	201	224	110		75--125	199	224	111		0		0--20
Nickel, Total	1	1	ug/L	9.39	201	233	111		75--125	199	233	112		0		0--20
Copper, Total	2.01	2.01	ug/L	7.36	201	222	107		75--125	199	225	109		1		0--20
Zinc, Total	5.02	5.02	ug/L	27.4	201	244	108		75--125	199	246	110		1		0--20
Arsenic, Total	0.502	0.502	ug/L	13.7	201	222	104		75--125	199	222	105		0		0--20
Selenium, Total	5.02	5.02	ug/L	<QL	201	215	107		75--125	199	216	108		0		0--20
Silver, Total	0.402	0.402	ug/L	<QL	201	215	107		75--125	199	212	106		1		0--20
Cadmium, Total	0.502	0.502	ug/L	<QL	201	215	107		75--125	199	212	107		1		0--20
Tin, Total	5.02	5.02	ug/L	<QL	201	201	100		75--125	199	202	101		0		0--20
Antimony, Total	3.01	3.01	ug/L	3.04	201	211	104		75--125	199	213	105		1		0--20
Barium, Total	5.02	5.02	ug/L	32	201	239	103		75--125	199	241	105		1		0--20
Thallium, Total	0.754	0.754	ug/L	<QL	201	219	109		75--125	199	214	107		3		0--20
Lead, Total	1	1	ug/L	<QL	201	217	108		75--125	199	216	108		0		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

MSD:WG199827-6 MS:WG199827-5 L85889-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.993	0.993	ug/L	<QL	199	207	104		75--125	200	210	105		2		0--20
Sodium, Total	993	993	ug/L	395000	49600	447000		4xRule	75--125	50100	430000		4xRule	4		0--20
Magnesium, Total	496	496	ug/L	28500	49600	80400	105		75--125	50100	82700	108		3		0--20
Aluminum, Total	49.6	49.6	ug/L	943	1990	3170	112		75--125	2000	3080	107		3		0--20
Phosphorus, Total	993	993	ug/L	3330	49600	56200	107		75--125	50100	55100	103		2		0--20
Potassium, Total	993	993	ug/L	144000	49600	202000	117		75--125	50100	194000	101		4		0--20
Calcium, Total	496	496	ug/L	83100	49600	136000	106		75--125	50100	133000	100		2		0--20
Vanadium, Total	0.745	0.745	ug/L	14.2	199	228	107		75--125	200	222	104		2		0--20
Chromium, Total	1.99	1.99	ug/L	41	199	250	105		75--125	200	254	106		1		0--20
Manganese, Total	0.993	0.993	ug/L	711	199	942	116		75--125	200	913	101		3		0--20
Iron, Total	99.3	99.3	ug/L	7660	49600	61800	109		75--125	50100	60000	105		3		0--20
Cobalt, Total	0.496	0.496	ug/L	10.4	199	237	114		75--125	200	235	112		1		0--20
Nickel, Total	0.993	0.993	ug/L	43.1	199	268	113		75--125	200	268	112		0		0--20
Copper, Total	1.99	1.99	ug/L	8.89	199	227	110		75--125	200	224	108		1		0--20
Zinc, Total	4.96	4.96	ug/L	154	199	379	113		75--125	200	369	107		3		0--20
Arsenic, Total	0.496	0.496	ug/L	34.5	199	250	108		75--125	200	249	107		0		0--20
Selenium, Total	4.96	4.96	ug/L	<QL	199	223	112		75--125	200	222	111		0		0--20
Silver, Total	0.397	0.397	ug/L	<QL	199	214	108		75--125	200	214	107		0		0--20
Cadmium, Total	0.496	0.496	ug/L	<QL	199	219	110		75--125	200	218	109		0		0--20
Tin, Total	4.96	4.96	ug/L	<QL	199	198	100		75--125	200	200	100		1		0--20
Antimony, Total	2.98	2.98	ug/L	4.64	199	223	110		75--125	200	219	107		2		0--20
Barium, Total	4.96	4.96	ug/L	76.3	199	264	94		75--125	200	267	95		1		0--20
Thallium, Total	0.745	0.745	ug/L	<QL	199	219	110		75--125	200	223	111		2		0--20
Lead, Total	0.993	0.993	ug/L	1.14	199	221	111		75--125	200	224	111		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199874 Total Metals by ICPMS

MB:WG199874-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG199874-2 MB:WG199874-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.7	98		85--115

MSD:WG199874-4 MS:WG199874-3 L85894-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.495	0.495	ug/L	34.3	198	236	102		75--125	198	236	102		0		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG199897 Total Mercury by CVAA

MB:WG199897-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG199897-2 MB:WG199897-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	1.02	102		85--115

MSD:WG199897-4 MS:WG199897-3 L85889-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.92	96		75--125	2	1.99	99		3		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG200019 Total Mercury by CVAA

MB:WG200019-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200019-2 MB:WG200019-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.989	99		85--115

MSD:WG200019-4 MS:WG200019-3 L85923-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.84	92		75--125	2	1.85	93		1		0--20

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

Workgroup: WG200031 Total Metals by ICPMS

MB:WG200031-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

SB:WG200031-2 MB:WG200031-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5310	106		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5370	107		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	203	101		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4800	96		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5110	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4820	96		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.4	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.5	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.8	104		85--115
Iron, Total	5	10	ug/L	<QL	5000	5280	106		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.8	109		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.9	110		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.7	109		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.6	98		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.8	104		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	21	105		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.7	104		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.7	103		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.7	104		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	21.8	109		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.4	102		85--115

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_041025 COC 18652, 18656, 18706, 18734, 18741, 18766, 18778, 18817

MSD:WG200031-4 MS:WG200031-3 L85923-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1.01	1.01	ug/L	<QL	202	203	101		75--125	199	212	107		4		0--20
Sodium, Total	1010	1010	ug/L	420000	50400	464000		4xRule	75--125	49600	476000		4xRule	3		0--20
Magnesium, Total	504	504	ug/L	31700	50400	81400	98		75--125	49600	83100	103		2		0--20
Aluminum, Total	50.4	50.4	ug/L	470	2020	2400	95		75--125	1990	2500	102		4		0--20
Phosphorus, Total	1010	1010	ug/L	2430	50400	49700	94		75--125	49600	51700	99		4		0--20
Potassium, Total	1010	1010	ug/L	153000	50400	199000	92		75--125	49600	207000	108		4		0--20
Calcium, Total	504	504	ug/L	75200	50400	122000	93		75--125	49600	127000	104		4		0--20
Vanadium, Total	0.757	0.757	ug/L	13.6	202	207	96		75--125	199	216	102		4		0--20
Chromium, Total	2.02	2.02	ug/L	46.6	202	247	99		75--125	199	255	105		3		0--20
Manganese, Total	1.01	1.01	ug/L	614	202	797	91		75--125	199	831	109		4		0--20
Iron, Total	101	101	ug/L	5980	50400	55500	98		75--125	49600	56600	102		2		0--20
Cobalt, Total	0.504	0.504	ug/L	10.6	202	226	107		75--125	199	226	108		0		0--20
Nickel, Total	1.01	1.01	ug/L	43.4	202	260	108		75--125	199	259	109		0		0--20
Copper, Total	2.02	2.02	ug/L	4.56	202	216	105		75--125	199	216	107		0		0--20
Zinc, Total	5.04	5.04	ug/L	95.6	202	308	105		75--125	199	308	107		0		0--20
Arsenic, Total	0.504	0.504	ug/L	35.8	202	235	99		75--125	199	236	101		1		0--20
Selenium, Total	5.04	5.04	ug/L	<QL	202	205	102		75--125	199	205	103		0		0--20
Silver, Total	0.404	0.404	ug/L	<QL	202	194	96		75--125	199	197	99		1		0--20
Cadmium, Total	0.504	0.504	ug/L	<QL	202	200	99		75--125	199	204	103		2		0--20
Tin, Total	5.04	5.04	ug/L	<QL	202	196	97		75--125	199	201	101		2		0--20
Antimony, Total	3.03	3.03	ug/L	5.43	202	205	99		75--125	199	218	107		6		0--20
Barium, Total	5.04	5.04	ug/L	64	202	261	97		75--125	199	268	103		3		0--20
Thallium, Total	0.757	0.757	ug/L	<QL	202	210	104		75--125	199	212	107		1		0--20
Lead, Total	1.01	1.01	ug/L	<QL	202	204	101		75--125	199	209	105		2		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 4/7/25

Department of
Natural Resources and Parks
Solid Waste Division

No. **18652**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85784-2	LEPS25 0401 LP	4/6/25	1700

Project Site Test Reference

GROUNDWATER											
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	
2	2.1	4	38	5	6	7	8	9	10	12	

SURFACE WATER							
CHSW-Q Cedar Hills SW Stn. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS	
14	16	42	49.1	17	18	21	

TS							
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES		
52	53	54	56	57	58		

LEACHATE/WASTEWATER													
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mlty	CHLS-M_MOD CH Leachate Mods Mlty	CHLS-M_As CH Leachate As Semi-Ann.	CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (monthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	
24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	
						X										

PERMIT	
CHLS-P CH L Permit (wkly, 1st)	25
CHLS-P CH L Permit (monthly)	25.1
CHLS-P CH L Permit (wkly, 2nd)	25.2
ALLS Algona WW Permit	26
BLLS Bow Lake WW Permit	20
ENLS Enumclaw WW Permit	27
FALS Factoria WW Permit	28
SRLS Shoreline WW Permit	29
HTLS Houghton WW Permit	30
RELS Renton WW Permit	31
VALS-P Vashon WW Permit Tanker	32
VALS-Q Vashon Leachate Qlty	34

Number of Bottles: 1

Remarks

Relinquished By Sampler: I. Rivera
Sampler Signature:
Sampler Printed Name: KCSWD
Company
Date: 4/7/25
Time: 1100

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Jason Kinnard
Signature
Printed Name: KCEL
Company
Date: 4-8-25
Time: 1330

Observations/Comments/Special Instructions:

*Arsenic only.

Samples custody sealed on 4/7/25 @ 1100 hr.

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85784 -2
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 R0120	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-6-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 4-8-25 COC / SDG No.: 186552

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/~~CVAA~~ / ~~pH < 2~~ w/ HNO_3 (CHLS-P #29)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: APR 08 '25 13:52

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/15/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18656**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.1)

Lab No.	Sample ID	Date	Time
85889-1	LEPS250414P	4/14/25	1500
85889-2	LEPS250414D	4/14/25	1500

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 855889 -1	-2
40 mL clear vial (VOA)		
60 mL CWM HDPE	1	1
125 mL CNM HDPE		
125 mL CWM HDPE		
125 mL GANM w/HCl		
250 mL CWM HDPE		
250 mL GAWM w/H_2SO_4		
500 mL AWM HDPE		
500 mL CWM HDPE		
500 mL CWM PP (MICRO)		
500 mL HDPE (METALS)	1	1
500 mL GAWM		
1L CWM HDPE		
1L GANM		
1L GAWM w/ H_2SO_4		
2L CWM HDPE:		
Other -		
Other -		
Other -		
Other -		
Other -		
Total # of Samples 4	2	2

Number of bottles per sample

Sample Collect Date(s): 4-4-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.1)

Receive Date: 4-15-25 COC / SDG No.: 186556

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1/1.9/1.9	Delivery Location	Y / N	

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

COMMENTS / NOTIFICATIONS

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other: Nutrients field filtered			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: APR 15 '25 14:37

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/11/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18706**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
85828-1	LEPS250410P	4/10/25	1500
* 85828-2	~~LEPS250411F~~ LEPS250410F JP 4/23/25	4/11/25	0857

Project Site Test Reference

GROUNDWATER												
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty		
2	2.1	4	38	5	6	7	8	9	10	12		

SURFACE WATER												
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS						
14	16	42	49.1	17	18	21						

TS						
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	
52	53	54	56	57	58	

LEACHATE/WASTEWATER												
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mtly	CHLS-M_MOD CH Leachate Mods Mtly	CHLS-M_As CH Leachate As Semi-Ann.									
24	23	23+	23.1									

PERMIT												
CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	
25	25.1	25.2	26	20	27	28	29	30	31	32	34	
		X										
		X										

Lab No.	Number of Bottles	Remarks
85828-1	1	
85828-2	1	

	Relinquished By Sampler	Date	Received By	Date
	N. Reiber	4/11/25	Hannah Spear	4/11/25
	Sampler Signature		Signature	
	N. Reiber		H. Spear	
	Sampler Printed Name	Time	Printed Name	Time
	KCSWD	1330 ~~0830~~	KCSWD	1334
	Company		Company	
	Relinquished By	Date	Received By	Date
	Hannah Spear	4/11/25	Alex Trejo	4/11/25
	Signature		Signature	
	H. Spear		A. Trejo	
	Printed Name	Time	Printed Name	Time
	KCSWD	1420	KCEL	14:20
	Company		Company	

Observations/Comments/Special Instructions:

* Grab sample for composite on 4/10/25 Sample poured into bottle from composite 4/11/25 w/ field blank.

Total # of Bottles: 2

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

JP 4/23/25

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85828	
	1	2
40 mL clear vial (VOA)		
60 mL CWM HDPE		
125 mL CNM HDPE		
125 mL CWM HDPE		
125 mL GANM w/HCl		
250 mL CWM HDPE		
250 mL GAWM w/H_2SO_4		
500 mL AWM HDPE		
500 mL CWM HDPE		
500 mL CWM PP (MICRO)		
500 mL HDPE (METALS)	1	1
500 mL GAWM		
1L CWM HDPE		
1L GANM		
1L GAWM w/ H_2SO_4		
2L CWM HDPE:		
Other -		
Other -		
Other -		
Other -		
Other -		
Total # of Samples 2	1	1
	Number of bottles per sample	

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.5 1.3 1.6	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4/10/25 + 4/11/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25J)

Receive Date: 4/11/25 COC / SDG No.: 18706

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other: AT 4/11/25			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Jay

APR 11 '25 14:44

Date / Time Completed: _____

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/18/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18734**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: LEPS-P(25.2)

Lab No.	Sample ID	Date	Time
85894-1	LEPS250417P	4/17/25	1500

Project Site Test Reference

	CHGW	Cedar Hills GW Qlty	2
	CHGW	Cedar Hills EPZ GW Qlty	2.1
	CHGW/AGW	Appendix III GW	4
	CHGW-OS	Cedar Hills GW Offsite	38
GROUNDWATER	CFGW	Cedar Falls GW Qlty	5
	DUGW	Duvall GW Qlty	6
	ENGW	Enumclaw GW Qlty	7
	HOGW	Hobart GW Qlty	8
	HTGW	Houghton GW Qlty	9
	PUGW	Puyallup GW Qlty	10
	VAGW	Vashon GW Qlty	12
	CHSW-Q	Cedar Hills SW Stn. E-1	14
	CHSW-P	Cedar Hills SW/ISGP	16
	CHSW-TD	Cedar Hills SW Top Deck	42
	CHSW-E	CH Emergency	49.1
SURFACE WATER	CFSW	Cedar Falls SW Qlty	17
	DUSW	Duvall SW Qlty	18
	VASW	Vashon SW Qlty-WEIRS	21
TS	HTSW-P	Houghton SW NPDES	52
	SHSW-P	Shoreline SW NPDES	53
	FASW-P	Factoria SW NPDES	54
	ENSW-P	Enumclaw SW NPDES	56
	ALSW-P	Algona SW NPDES	57
	VASW-P	Vashon SW NPDES	58
	CHTW	Cedar Hills Truckwash	24
	CHLS-M	Cedar Hills Leachate Mthly	23
	CHLS-M_MOD	CH Leachate Mods Mthly	23+
	CHLS-M_As	CH Leachate As Semi-Ann.	23.1
LEACHATE/WASTEWATER	CHLS-P	CH L Permit (wkly, 1st)	25
	CHLS-P	CH L Permit (mthly)	25.1
PERMIT	CHLS-P	CH L Permit (wkly, 2nd)	25.2
	ALLS	Algona WW Permit	26
	BLLS	Bow Lake WW Permit	20
	ENLS	Enumclaw WW Permit	27
	FALS	Factoria WW Permit	28
	SRLS	Shoreline WW Permit	29
	HTLS	Houghton WW Permit	30
	RELS	Renton WW Permit	31
	VALS-P	Vashon WW Permit Tanker	32
	VALS-Q	Vashon Leachate Qlty	34

Lab No.	Number of Bottles	Remarks
85894-1	1	

	Relinquished By Sampler	Date	Received By	Date
Signature	N. Reiber	4/18/25	I. Rivera	4/18/25
Printed Name / Company	KCSWD	Time 1010	KCSWD	Time 1010
Signature	I. Rivera	4/18/25	Jason Kinna	4/18/25
Printed Name / Company	KCSWD	Time 1210	KCEL	Time 1210

Observations/Comments/Special Instructions:
* Arsenic only

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85894-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 ROI.9	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-17-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: ~~EPA-P~~ CHLS-P #25 JK

Receive Date: 4-18-25 COC / SDG No.: 18734

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: APR 18 '25 12:18

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/2/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18741**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
85784-1	LEPS250401P	4/1/25	1700

Project Site Test Reference

GROUNDWATER												SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT													
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-MEIRS	HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mlly	CHLS-M_MOD CH Leachate Mods Mlly	CHLS-M_As CH Leachate As Semi-Ann.	CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34		
																												X											1	Diss Sulfide <0.1 ppm

Relinquished By Sampler: I. Rivera
Sampler Signature:
Sampler Printed Name: KCSWD
Company
Relinquished By
Signature
Printed Name
Company

Date: 4/3/25
Time: 0645
Date
Time

Received By
Signature
Printed Name
Company
Received By: Jason Konrad
Signature
Printed Name: KCEL
Company

Date
Time
Date: 4/3/25
Time: 1330

Observations/Comments/Special Instructions:
Sample secured overnight
Samples custody sealed on 4/3/25 at 0645

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)										
	85784										
	-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	18.1, 0.1.5	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-1-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: (HLS-P(25)

Receive Date: 4-3-25 COC / SDG No.: 1874

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: APR 03 '25 13:34

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/9/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18766**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
858231	LEPS250408P	4/8/25	1700																													X												1	LOD.1 ppm
																																												Diss Sulfide

GROUNDWATER | SURFACE WATER | LEACHATE/WASTEWATER

Project Site Test Reference

CHGW Cedar Hills GW Qlty
CHGW Cedar Hills EPZ GW Qlty
CHGW/VAGW Appendix III GW
CHGW-OS Cedar Hills GW Offsite
CFGW Cedar Falls GW Qlty
DUGW Duvall GW Qlty
ENGW Enumclaw GW Qlty
HOGW Hobart GW Qlty
HTGW Houghton GW Qlty
PUGW Puyallup GW Qlty
VAGW Vashon GW Qlty
CHSW-Q Cedar Hills SW Sta. E-1
CHSW-P Cedar Hills SW ISGP
CHSW-TD Cedar Hills SW Top Deck
CHSW-E CH Emergency
CFSW Cedar Falls SW Qlty
DUSW Duvall SW Qlty
VASW Vashon SW Qlty-WEIRS

TS
HTSW-P Houghton SW NPDES
SHSW-P Shoreline SW NPDES
FASW-P Factoria SW NPDES
ENSW-P Enumclaw SW NPDES
ALSW-P Algona SW NPDES
VASW-P Vashon SW NPDES

CHTW Cedar Hills Truckwash
CHLS-M Cedar Hills Leachate Mthly
CHLS-M_MOD CH Leachate Mods Mthly
CHLS-M_As CH Leachate As Semi-Ann.

PERMIT
CHLS-P CH L Permit (wkly, 1st)
CHLS-P CH L Permit (mnthly)
CHLS-P CH L Permit (wkly, 2nd)
ALLS Algona WW Permit
BLLS Bow Lake WW Permit
ENLS Enumclaw WW Permit
FALS Factoria WW Permit
SRLS Shoreline WW Permit
HTLS Houghton WW Permit
RELS Renton WW Permit
VALS-P Vashon WW Permit Tanker
VALS-Q Vashon Leachate Qlty

Relinquished By Sampler	Date 4/9/25	Received By	Date
Sampler Signature: N. Reiber		Signature	
Sampler Printed Name: KCSWD	Time 1400	Printed Name	Time
Company		Company	
Relinquished By	Date	Received By: Jason Kinnard	Date 4-9-25
Signature		Signature	
Printed Name	Time	Printed Name: KCEL	Time 1400
Company		Company	

Observations/Comments/Special Instructions:

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 855823 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.4 12312 3	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-8-25 Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P (25)

Receive Date: 4-9-25 COC / SDG No.: 18766

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

APR 09 '25 14:07

Date / Time Completed: _____

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/25/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18778**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.2)

Lab No.	Sample ID	Date	Time	2 CHGW Cedar Hills GW Qlty	2.1 CHGW Cedar Hills EPZ GW Qlty	4 CHGW/AGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qlty	6 DUGW Duvall GW Qlty	7 ENGW Enumclaw GW Qlty	8 HOGW Hobart GW Qlty	9 HTGW Houghton GW Qlty	10 PUGW Puyallup GW Qlty	12 VAGW Vashon GW Qlty	14 CHSW-Q Cedar Hills SW Sta. E-1	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CH Emergency	17 CFSW Cedar Falls SW Qlty	18 DUSW Duvall SW Qlty	21 VASW Vashon SW Qlty-WEIRS	52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES	24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mthly	23+ CHLS-M_MOD CH Leachate Mods Mthly	23.1 CHLS-M_As CH Leachate As Semi-Anm.	25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (mnthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
				GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT												
85923-2	LEPS250424P	4/24/25	1500																												X											1	

Relinquished By Sampler: Hannah Spear
Sampler Signature: H. Spear
Sampler Printed Name: KCSWD
Company
Date: 4/25/25
Time: 1205

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Alex Trejo
Signature: A. Trejo
Printed Name: KCEL
Company
Date: 4/25/25
Time: 1205

Observations/Comments/Special Instructions:
* Arsenic ONLY

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85923-2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	0.5 | 0.5 | 0.8	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4/24/25 — Project No.: 421422

VTRP Collect Date(s): ____ — Project Site Test Reference: CHLS-P(25 2)

Receive Date: 4/25/25 — COC / SDG No.: 18778

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Jr

Date / Time Completed: 04/25/25 [illegible]

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/23/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18817**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS_P(25)

Lab No.	Sample ID	Date	Time
85923-1	LEPS250422P	4/24/25	1500

| Project Site Test Reference | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85923 -1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	20.1-21.7	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-22-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P025

Receive Date: 4-24-25 COC / SDG No.: 19817

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #29)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

APR 24 '25 13:53

Date / Time Completed: _____

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

May 9, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250429P	**4/29/2025**	**18821**
LEPS250501P	**5/01/2025**	**18798**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected April 29 and May 1, 2025.

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Sample Data

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/09/2025
Report Group: CHLS-P_050825

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

Client Sample ID: **LEPS250501P**
SDG / Lab Sample ID: **18798 / L85963-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/01/2025**
Login Date: **05/02/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250429P**
SDG / Lab Sample ID: **18821 / L85963-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/29/2025**
Login Date: **05/01/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/09/2025
Report Group: CHLS-P_050825

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

Client Sample ID: **LEPS250501P**
CoC / Lab Sample ID: **18798 / L85963-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/01/2025**
Login Date: **05/02/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0473		.000501	.000501	1	05/05/2025	05/07/2025	WG200143

Client Sample ID: **LEPS250429P**
CoC / Lab Sample ID: **18821 / L85963-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/29/2025**
Login Date: **05/01/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.345		.0503	.0503		05/05/2025	05/07/2025	WG200143
Antimony, Total	10	mg/L	.00602		.00302	.00302		05/05/2025	05/07/2025	WG200143
Arsenic, Total	10	mg/L	.0452		.000503	.000503	1	05/05/2025	05/07/2025	WG200143
Barium, Total	10	mg/L	.0702		.00503	.00503		05/05/2025	05/07/2025	WG200143
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		05/05/2025	05/07/2025	WG200143
Cadmium, Total	10	mg/L	<.000503	U	.000503	.000503	0.5	05/05/2025	05/07/2025	WG200143
Calcium, Total	10	mg/L	83.5		.503	.503		05/05/2025	05/07/2025	WG200143
Chromium, Total	10	mg/L	.0523		.00201	.00201	2.75	05/05/2025	05/07/2025	WG200143
Cobalt, Total	10	mg/L	.0116		.000503	.000503		05/05/2025	05/07/2025	WG200143
Copper, Total	10	mg/L	.00446		.00201	.00201	3	05/05/2025	05/07/2025	WG200143
Iron, Total	10	mg/L	6.39		.101	.101		05/05/2025	05/07/2025	WG200143
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	05/05/2025	05/07/2025	WG200143
Magnesium, Total	10	mg/L	31.9		.503	.503		05/05/2025	05/07/2025	WG200143
Manganese, Total	10	mg/L	.639		.00101	.00101		05/05/2025	05/07/2025	WG200143
Nickel, Total	10	mg/L	.0487		.00101	.00101	2.5	05/05/2025	05/07/2025	WG200143
Phosphorus, Total	10	mg/L	2.8		1.01	1.01		05/05/2025	05/07/2025	WG200143
Potassium, Total	10	mg/L	155		1.01	1.01		05/05/2025	05/07/2025	WG200143
Selenium, Total	10	mg/L	<.00503	U	.00503	.00503		05/05/2025	05/07/2025	WG200143
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	05/05/2025	05/07/2025	WG200143
Sodium, Total	10	mg/L	464		1.01	1.01		05/05/2025	05/07/2025	WG200143
Thallium, Total	10	mg/L	<.000754	U	.000754	.000754		05/05/2025	05/07/2025	WG200143
Tin, Total	10	mg/L	<.00503	U	.00503	.00503		05/05/2025	05/07/2025	WG200143
Vanadium, Total	10	mg/L	.0155		.000754	.000754		05/05/2025	05/07/2025	WG200143
Zinc, Total	10	mg/L	.0999		.00503	.00503	5	05/05/2025	05/07/2025	WG200143
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/05/2025	05/06/2025	WG200152

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Quality Control Data

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

Workgroup: WG200143 Total Metals by ICPMS

MB:WG200143-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

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King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

SB:WG200143-2 MB:WG200143-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20	100		85--115
Sodium, Total	50	100	ug/L	<QL	5000	4620	92		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	4890	98		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	205	102		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4890	98		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4560	91		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4940	99		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.3	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21	105		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5160	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.5	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.8	109		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.9	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	19.9	99		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.6	98		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.3	97		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	19.5	98		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	18.2	91		85--115

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King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

MSD:WG200143-4 MS:WG200143-3 L85963-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.989	0.989	ug/L	<QL	198	199	101		75--125	196	198	101		1		0--20
Sodium, Total	989	989	ug/L	464000	49400	511000		4xRule	75--125	49000	511000		4xRule	0		0--20
Magnesium, Total	494	494	ug/L	31900	49400	78700	95		75--125	49000	78200	95		1		0--20
Aluminum, Total	49.4	49.4	ug/L	345	1980	2430	106		75--125	1960	2340	102		4		0--20
Phosphorus, Total	989	989	ug/L	2800	49400	52600	101		75--125	49000	52500	102		0		0--20
Potassium, Total	989	989	ug/L	155000	49400	200000	91		75--125	49000	200000	92		0		0--20
Calcium, Total	494	494	ug/L	83500	49400	134000	101		75--125	49000	132000	98		1		0--20
Vanadium, Total	0.742	0.742	ug/L	15.5	198	217	102		75--125	196	213	101		2		0--20
Chromium, Total	1.98	1.98	ug/L	52.3	198	255	103		75--125	196	251	102		2		0--20
Manganese, Total	0.989	0.989	ug/L	639	198	844	104		75--125	196	843	104		0		0--20
Iron, Total	98.9	98.9	ug/L	6390	49400	56200	101		75--125	49000	55800	101		1		0--20
Cobalt, Total	0.494	0.494	ug/L	11.6	198	214	102		75--125	196	210	101		2		0--20
Nickel, Total	0.989	0.989	ug/L	48.7	198	254	104		75--125	196	247	101		3		0--20
Copper, Total	1.98	1.98	ug/L	4.46	198	213	106		75--125	196	210	105		2		0--20
Zinc, Total	4.94	4.94	ug/L	99.9	198	308	105		75--125	196	302	103		2		0--20
Arsenic, Total	0.494	0.494	ug/L	45.2	198	248	102		75--125	196	245	102		1		0--20
Selenium, Total	4.94	4.94	ug/L	<QL	198	211	107		75--125	196	204	104		3		0--20
Silver, Total	0.395	0.395	ug/L	<QL	198	186	94		75--125	196	185	94		1		0--20
Cadmium, Total	0.494	0.494	ug/L	<QL	198	192	97		75--125	196	191	98		0		0--20
Tin, Total	4.94	4.94	ug/L	<QL	198	176	89		75--125	196	166	85		6		0--20
Antimony, Total	2.97	2.97	ug/L	6.02	198	202	99		75--125	196	198	98		2		0--20
Barium, Total	4.94	4.94	ug/L	70.2	198	274	103		75--125	196	273	103		0		0--20
Thallium, Total	0.742	0.742	ug/L	<QL	198	195	99		75--125	196	196	100		0		0--20
Lead, Total	0.989	0.989	ug/L	<QL	198	183	93		75--125	196	184	94		0		0--20

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King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

Workgroup: WG200152 Total Mercury by CVAA

MB:WG200152-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200152-2 MB:WG200152-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.979	98		85--115

MSD:WG200152-4 MS:WG200152-3 L85963-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.72	86		75--125	2	1.72	86		0		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 5/2/25

Department of
Natural Resources and Parks
Solid Waste Division

No. **18798**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P

Lab No.	Sample ID	Date	Time
85963-1	LEPS250501P	5/1/25	1500

Project Site Test Reference

	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	
	CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGWA/AGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty	CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS	HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES	CHTW Cedar Hills Trucktwash	CHLS-H Cedar Hills Leachate Mtly	CHLS-M_MOD CH Leachate Mods Mtly	CHLS-M_As CH Leachate As Semi-Ann.	CHLS-P CH L Permit (wMly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wMly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	
	GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT											
85963-1																															X										1

Relinquished By Sampler
Sampler Signature: N. Reber
Sampler Printed Name: KCSWD
Company
Date: 5/2/25
Time: 1145

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By
Signature: Jason Kinnard
Printed Name: KCEL
Company
Date: 5-2-25
Time: 1145

Observations/Comments/Special Instructions:
Arsenic only

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85963-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 11.9 1.9	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5-1-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P (25.2)

Receive Date: 5-2-25 COC / SDG No.: 85798

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

MAY 02 '25 12:04

Date / Time Completed: _____

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Chain of Custody Record

Environmental Monitoring Program

Date: 4/30/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18821**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
				CHGW	CHGW	CHGW/VAGW	CHGW-OS	CFGW	DUGW	ENGW	HOGW	HTGW	PUGW	VAGW	CHSW-Q	CHSW-P	CHSW-TD	CHSW-E	CFSW	DUSW	VASW	HTSW-P	SHSW-P	FASW-P	ENSW-P	ALSW-P	VASW-P	CHTW	CHLS-M	CHLS-M_MOD	CHLS-M_As	CHLS-P	CHLS-P	CHLS-P	ALLS	BLLS	ENLS	FALS	SRLS	HTLS	RELS	VALS-P	VALS-Q		
				Cedar Hills GW Qlty	Cedar Hills EPZ GW Qlty	Appendix III GW	Cedar Hills GW Offsite	Cedar Falls GW Qlty	Duvall GW Qlty	Enumclaw GW Qlty	Hobart GW Qlty	Houghton GW Qlty	Puyallup GW Qlty	Vashon GW Qlty	Cedar Hills SW Sta. E-1	Cedar Hills SW ISGP	Cedar Hills SW Top Deck	CH Emergency	Cedar Falls SW Qlty	Duvall SW Qlty	Vashon SW Qlty-WEIRS	Houghton SW NPDES	Shoreline SW NPDES	Factoria SW NPDES	Enumclaw SW NPDES	Algona SW NPDES	Vashon SW NPDES	Cedar Hills Truckwash	Cedar Hills Leachate Mthly	CH Leachate Mods Mthly	CH Leachate As Semi-Ann.	CH L Permit (wkly, 1st)	CH L Permit (mnthly)	CH L Permit (wkly, 2nd)	Algona WW Permit	Bow Lake WW Permit	Enumclaw WW Permit	Factoria WW Permit	Shoreline WW Permit	Houghton WW Permit	Renton WW Permit	Vashon WW Permit Tanker	Vashon Leachate Qlty		
				GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT											
85963-2	UERS250429P	4/29/25	1500																												X												1	20.1 ppm Diss. Sulfide

Relinquished By Sampler: [signature]
Sampler Signature: I. Rivera
Sampler Printed Name: KCSWD
Company
Date: 4/30/25
Time: 1206

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: [signature] Jason Kinnard
Signature
Printed Name: KCEC
Company
Date: 5-1-25
Time: 1345

Observations/Comments/Special Instructions:
Sample custody sealed on 4/30/25 at 1200

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 585963-2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.2 / 2.0	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-29-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 5-1-25 COC / SDG No.: 18521

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAY 01 '25 14:06

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	2/5/2025 @ 12:22
Sample Count	**Interval Time (sec)**	**Bump Test Date**
10087	60	4/2/2025 @ 06:57

H2S Readings

Date	Daily Max	Daily Average
4/2/2025	0	0
4/3/2025	0	0
4/4/2025	0	0
4/5/2025	0	0
4/6/2025	0	0
4/7/2025	0	0
4/8/2025	0	0
4/9/2025	0	0

Docusign Envelope ID: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB

KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: APRIL

YEAR: 2025

	DUVALL						VASHON				HOBART		OTHER		
DATE	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		REMARKS
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1								2.00							
2								2.00							
3								1.00		1.00					
4		1.00		1.00				1.00							
5															
6															
7		1.00						1.00							
8								2.00							
9								1.00		1.00					
10								2.00							
11								2.00							
12								2.00							
13				3.00											
14								1.00		1.00					
15									1.00						
16															
17															
18								1.00		1.00					
19								2.00							
20								2.00							
21															
22															
23															
24								2.00							
25								2.00							
26								2.00							
27								2.00							
28								1.00							
29		2.00		1.00											
30															
31															
TOTAL	0	28000.00	0	35000.00	0	0.00	0	217000.00	6000	28000.00	0	0.00	0	0.00	

Certificate Of Completion

Envelope Id: 714F10E3-EE6D-429E-8868-62EFF2F4CDBB
Status: Completed
Subject: Complete with Docusign: April SMR
Source Envelope:
Document Pages: 69
Signatures: 3
Envelope Originator:
Certificate Pages: 5
Initials: 1
Aaron Copado
AutoNav: Enabled
401 5TH AVE
EnvelopeId Stamping: Enabled
SEATTLE, WA 98104
Time Zone: (UTC-08:00) Pacific Time (US & Canada)
acopado@kingcounty.gov
IP Address: 198.49.222.20

Record Tracking

Status: Original
5/15/2025 6:51:02 AM
Holder: Aaron Copado
acopado@kingcounty.gov
Location: DocuSign
Security Appliance Status: Connected
Pool: FedRamp
Storage Appliance Status: Connected
Pool: King County-Dept of Natural Resources-Solid Waste
Location: Docusign

Signer Events	Signature	Timestamp
Aaron Copado acopado@kingcounty.gov Environmental Scientist III KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 198.49.222.20	Sent: 5/15/2025 6:55:30 AM Viewed: 5/15/2025 6:55:43 AM Signed: 5/15/2025 6:55:52 AM
Electronic Record and Signature Disclosure: Not Offered via Docusign		
Jennifer Keune jennifer.keune@kingcounty.gov Interim Supervisor KC_DNRP_SWD Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 67.160.11.161	Sent: 5/15/2025 6:55:55 AM Viewed: 5/15/2025 7:46:16 AM Signed: 5/15/2025 7:47:22 AM
Electronic Record and Signature Disclosure: Accepted: 3/31/2021 3:20:14 PM ID: 040441cf-883c-43c6-a4af-1ccb2ef73edc		

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 Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	5/15/2025 6:55:30 AM
Certified Delivered	Security Checked	5/15/2025 7:46:16 AM
Signing Complete	Security Checked	5/15/2025 7:47:22 AM
Completed	Security Checked	5/15/2025 7:47:22 AM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, King County-ZZDepartmentTemplate 03 (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a $0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact King County-ZZDepartmentTemplate 03:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: cipriano.dacanay@kingcounty.gov

To advise King County-ZZDepartmentTemplate 03 of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at cipriano.dacanay@kingcounty.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from King County-ZZDepartmentTemplate 03

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with King County-ZZDepartmentTemplate 03

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify King County-ZZDepartmentTemplate 03 as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by King County-ZZDepartmentTemplate 03 during the course of your relationship with King County-ZZDepartmentTemplate 03.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

June 13, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator III, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD)

DS AC

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of May 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 5/1/25, 5/6/25, 5/8/25, 5/12/25, 5/14/25, 5/19/25, 5/21/25, 5/27/25 and 5/28/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 5/14-5/21)
- Leachate Hauling Report (for May)

The following exceedance occurred during the month of May:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	5/06/25	6/12/25	6/12/25 @ 11:44

All other results met permit-specified limits.

Per KCIW guidance, details regarding May'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 (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD
Laura Belt, Engineer IV, KCSWD
Dan Swope, Engineer III, KCSWD
Grant Dornfeld, Engineer II, KCSWD

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** May 2025

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

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

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1	C		0.0473	0.2560									649000	
2													232800	
3													326400	
4													0	
5													650800	
6	C	8.40	0.0590	0.3229	<0.0005	0.0014	0.0716	0.3918	0.00712	0.0390	0.00104	0.00569	656200	
7													0	
8	C		0.0617	0.1723									334900	
9													0	
10													0	
11													0	
12	C	8.49	0.0645	0.1775	<0.0005	0.0007	0.0793	0.2181	0.0044	0.0120	<0.001	0.0014	329900	
13													0	
14	C		0.0700	0.1948									333700	
15													0	
16													326100	
17													176900	
18													172800	
19	C	8.58	0.0790	0.2191	<0.0005	0.0007	0.0915	0.2538	0.00461	0.0128	<0.001	0.0014	332600	
20													0	
21	C		0.0801	0.2240									335300	
22													0	
23													0	
24													175400	
25													175700	
26													0	
27	C	8.42	0.0871	0.2496	<0.0005	0.0007	0.106	0.3038	0.0061	0.0175	<0.001	0.0014	343600	
28	C		0.0892	0.2556									343600	
29													343700	
30													0	
31													0	

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: Jennifer Hume 1795F6C9A5E6F4A... Jun 13, 2025

Name and Signature of Principal Executive or Authorized Agent — Date

Monthly Min pH	8.40	5/6/25	Total Monthly Flow (gallons)	6,239,400
Monthly Max pH	8.58	5/19/25	Maximum Daily Flow	656,200

5/6/2025

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** May 2025

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

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

Sample Date (circle)	Sample Type*	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1													
2													
3													
4													
5													
6	C	<0.0001	0.00027	0.0633	0.346	<0.0004	0.0011	0.157	0.859	<0.1 ppm	562	<0.05	
7													
8													
9													
10													
11													
12	C	<0.0001	0.00014	0.0684	0.188	<0.0004	0.0006	0.097	0.267	<0.1 ppm			
13													
14													
15													
16													
17													
18													
19	C	<0.0001	0.00014	0.0788	0.219	<0.0004	0.0006	0.107	0.297	<0.1 ppm			
20													
21													
22													
23													
24													
25													
26													
27	C	<0.0001	0.00014	0.0911	0.261	<0.0004	0.0006	0.125	0.358	<0.1 ppm			
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:
Jun 13, 2025
A30EC0A5C02E4A0...
Name and Signature of Principal Executive or Authorized Agent — Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** May 2025

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14	0	0	0	0	
15	0	0	0	0	
16	2.5	1.067	0.033	0	
17	3.0	2.6	0.117	0	
18	1.0	0.2	0.006	0	
19	1.0	0.333	0.01	0	
20	0	0	0	0	
21	0	0	0	0.008	
22					
23					
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:
Jun 13, 2025
A705F0A1F02F4A3...
Name and Signature of Principal Executive or Authorized Agent — Date

Monthly **MAX**	3	Date	5/14/25-5/21/25
Monthly **AVG**	1.07		

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

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King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

May 9, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250429P	**4/29/2025**	**18821**
LEPS250501P	**5/01/2025**	**18798**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected April 29 and May 1, 2025.

Sample Receiving Comments
No sample receiving anomalies were observed.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/09/2025
Report Group: CHLS-P_050825

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

Client Sample ID: **LEPS250501P**
SDG / Lab Sample ID: **18798 / L85963-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/01/2025**
Login Date: **05/02/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250429P**
SDG / Lab Sample ID: **18821 / L85963-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/29/2025**
Login Date: **05/01/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/09/2025
Report Group: CHLS-P_050825

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

Client Sample ID: **LEPS250501P**
CoC / Lab Sample ID: **18798 / L85963-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/01/2025**
Login Date: **05/02/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0473		.000501	.000501	1	05/05/2025	05/07/2025	WG200143

Client Sample ID: **LEPS250429P**
CoC / Lab Sample ID: **18821 / L85963-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **04/29/2025**
Login Date: **05/01/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.345		.0503	.0503		05/05/2025	05/07/2025	WG200143
Antimony, Total	10	mg/L	.00602		.00302	.00302		05/05/2025	05/07/2025	WG200143
Arsenic, Total	10	mg/L	.0452		.000503	.000503	1	05/05/2025	05/07/2025	WG200143
Barium, Total	10	mg/L	.0702		.00503	.00503		05/05/2025	05/07/2025	WG200143
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		05/05/2025	05/07/2025	WG200143
Cadmium, Total	10	mg/L	<.000503	U	.000503	.000503	0.5	05/05/2025	05/07/2025	WG200143
Calcium, Total	10	mg/L	83.5		.503	.503		05/05/2025	05/07/2025	WG200143
Chromium, Total	10	mg/L	.0523		.00201	.00201	2.75	05/05/2025	05/07/2025	WG200143
Cobalt, Total	10	mg/L	.0116		.000503	.000503		05/05/2025	05/07/2025	WG200143
Copper, Total	10	mg/L	.00446		.00201	.00201	3	05/05/2025	05/07/2025	WG200143
Iron, Total	10	mg/L	6.39		.101	.101		05/05/2025	05/07/2025	WG200143
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	05/05/2025	05/07/2025	WG200143
Magnesium, Total	10	mg/L	31.9		.503	.503		05/05/2025	05/07/2025	WG200143
Manganese, Total	10	mg/L	.639		.00101	.00101		05/05/2025	05/07/2025	WG200143
Nickel, Total	10	mg/L	.0487		.00101	.00101	2.5	05/05/2025	05/07/2025	WG200143
Phosphorus, Total	10	mg/L	2.8		1.01	1.01		05/05/2025	05/07/2025	WG200143
Potassium, Total	10	mg/L	155		1.01	1.01		05/05/2025	05/07/2025	WG200143
Selenium, Total	10	mg/L	<.00503	U	.00503	.00503		05/05/2025	05/07/2025	WG200143
Silver, Total	10	mg/L	<.000402	U	.000402	.000402	1	05/05/2025	05/07/2025	WG200143
Sodium, Total	10	mg/L	464		1.01	1.01		05/05/2025	05/07/2025	WG200143
Thallium, Total	10	mg/L	<.000754	U	.000754	.000754		05/05/2025	05/07/2025	WG200143
Tin, Total	10	mg/L	<.00503	U	.00503	.00503		05/05/2025	05/07/2025	WG200143
Vanadium, Total	10	mg/L	.0155		.000754	.000754		05/05/2025	05/07/2025	WG200143
Zinc, Total	10	mg/L	.0999		.00503	.00503	5	05/05/2025	05/07/2025	WG200143
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/05/2025	05/06/2025	WG200152

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Quality Control Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

Workgroup: WG200143 Total Metals by ICPMS

MB:WG200143-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

SB:WG200143-2 MB:WG200143-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20	100		85--115
Sodium, Total	50	100	ug/L	<QL	5000	4620	92		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	4890	98		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	205	102		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4890	98		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4560	91		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4940	99		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.3	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21	105		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5160	103		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.5	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.8	109		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	19.9	99		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	19.9	99		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.6	98		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.3	97		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.4	102		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	19.5	98		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	18.2	91		85--115

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King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

MSD:WG200143-4 MS:WG200143-3 L85963-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.989	0.989	ug/L	<QL	198	199	101		75--125	196	198	101		1		0--20
Sodium, Total	989	989	ug/L	464000	49400	511000		4xRule	75--125	49000	511000		4xRule	0		0--20
Magnesium, Total	494	494	ug/L	31900	49400	78700	95		75--125	49000	78200	95		1		0--20
Aluminum, Total	49.4	49.4	ug/L	345	1980	2430	106		75--125	1960	2340	102		4		0--20
Phosphorus, Total	989	989	ug/L	2800	49400	52600	101		75--125	49000	52500	102		0		0--20
Potassium, Total	989	989	ug/L	155000	49400	200000	91		75--125	49000	200000	92		0		0--20
Calcium, Total	494	494	ug/L	83500	49400	134000	101		75--125	49000	132000	98		1		0--20
Vanadium, Total	0.742	0.742	ug/L	15.5	198	217	102		75--125	196	213	101		2		0--20
Chromium, Total	1.98	1.98	ug/L	52.3	198	255	103		75--125	196	251	102		2		0--20
Manganese, Total	0.989	0.989	ug/L	639	198	844	104		75--125	196	843	104		0		0--20
Iron, Total	98.9	98.9	ug/L	6390	49400	56200	101		75--125	49000	55800	101		1		0--20
Cobalt, Total	0.494	0.494	ug/L	11.6	198	214	102		75--125	196	210	101		2		0--20
Nickel, Total	0.989	0.989	ug/L	48.7	198	254	104		75--125	196	247	101		3		0--20
Copper, Total	1.98	1.98	ug/L	4.46	198	213	106		75--125	196	210	105		2		0--20
Zinc, Total	4.94	4.94	ug/L	99.9	198	308	105		75--125	196	302	103		2		0--20
Arsenic, Total	0.494	0.494	ug/L	45.2	198	248	102		75--125	196	245	102		1		0--20
Selenium, Total	4.94	4.94	ug/L	<QL	198	211	107		75--125	196	204	104		3		0--20
Silver, Total	0.395	0.395	ug/L	<QL	198	186	94		75--125	196	185	94		1		0--20
Cadmium, Total	0.494	0.494	ug/L	<QL	198	192	97		75--125	196	191	98		0		0--20
Tin, Total	4.94	4.94	ug/L	<QL	198	176	89		75--125	196	166	85		6		0--20
Antimony, Total	2.97	2.97	ug/L	6.02	198	202	99		75--125	196	198	98		2		0--20
Barium, Total	4.94	4.94	ug/L	70.2	198	274	103		75--125	196	273	103		0		0--20
Thallium, Total	0.742	0.742	ug/L	<QL	198	195	99		75--125	196	196	100		0		0--20
Lead, Total	0.989	0.989	ug/L	<QL	198	183	93		75--125	196	184	94		0		0--20

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King County Environmental Laboratory QC Report

CHLS-P_050825 COC 18798, 18821

Workgroup: WG200152 Total Mercury by CVAA

MB:WG200152-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200152-2 MB:WG200152-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.979	98		85--115

MSD:WG200152-4 MS:WG200152-3 L85963-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.72	86		75--125	2	1.72	86		0		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 5/2/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18798**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P

Lab No.	Sample ID	Date	Time
85963-1	LEPS250501P	5/1/25	1500

Project Site Test Reference

| GROUNDWATER | | | | | | | | | | | | SURFACE WATER | | | | | | | | | | | | LEACHATE/WASTEWATER | | | | | | | | | | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 85963-1										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 11.91 1.9	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5-1-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P (25.2)

Receive Date: 5-2-25 COC / SDG No.: 85798

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

MAY 02 '25 12:04

Date / Time Completed: _____

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 4/30/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18821**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34	Number of Bottles	Remarks
85963-2	UERS250429P	4/29/25	1500																													X												1	Diss. Sulfide 20.1 ppm

GROUNDWATER: 2 CHGW Cedar Hills GW Qlty; 2.1 CHGW Cedar Hills EPZ GW Qlty; 4 CHGW/VAGW Appendix III GW; 38 CHGW-OS Cedar Hills GW Offsite; 5 CFGW Cedar Falls GW Qlty; 6 DUGW Duvall GW Qlty; 7 ENGW Enumclaw GW Qlty; 8 HOGW Hobart GW Qlty; 9 HTGW Houghton GW Qlty; 10 PUGW Puyallup GW Qlty; 12 VAGW Vashon GW Qlty

SURFACE WATER: 14 CHSW-Q Cedar Hills SW Sta. E-1; 16 CHSW-P Cedar Hills SW TSGP; 42 CHSW-TD Cedar Hills SW Top Deck; 49.1 CHSW-E CH Emergency; 17 CFSW Cedar Falls SW Qlty; 18 DUSW Duvall SW Qlty; 21 VASW Vashon SW Qlty-WEIRS

TS: 52 HTSW-P Houghton SW NPDES; 53 SHSW-P Shoreline SW NPDES; 54 FASW-P Factoria SW NPDES; 56 ENSW-P Enumclaw SW NPDES; 57 ALSW-P Algona SW NPDES; 58 VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER: 24 CHTW Cedar Hills Truckwash; 23 CHLS-M Cedar Hills Leachate Mthly; 23+ CHLS-M_MOD CH Leachate Mods Mthly; 23.1 CHLS-M_As CH Leachate As Semi-Ann.

PERMIT: 25 CHLS-P CH L Permit (wkly, 1st); 25.1 CHLS-P CH L Permit (mnthly); 25.2 CHLS-P CH L Permit (wkly, 2nd); 26 ALLS Algona WW Permit; 20 BLLS Bow Lake WW Permit; 27 ENLS Enumclaw WW Permit; 28 FALS Factoria WW Permit; 29 SRLS Shoreline WW Permit; 30 HTLS Houghton WW Permit; 31 RELS Renton WW Permit; 32 VALS-P Vashon WW Permit Tanker; 34 VALS-Q Vashon Leachate Qlty

Relinquished By Sampler	Date: 4/30/25	Received By	Date
Sampler Signature: I. Rivera		Signature	
Sampler Printed Name: KCSWD	Time: 1206	Printed Name	Time
Company		Company	
Relinquished By	Date	Received By: Jason Kinnard	Date: 5-1-25
Signature		Signature	
Printed Name	Time	Printed Name: KCEL	Time: 1345
Company		Company	

Observations/Comments/Special Instructions:
Sample custody sealed on 4/30/25 at 1200

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s)
	585963 -2
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.2 / 2.0	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 4-29-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25)

Receive Date: 5-1-25 COC / SDG No.: 18521

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAY 01 '25 14:06

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

May 23, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250506P	**5/06/2025**	**18782**
LEPS250508P	**5/08/2025**	**18773**
LEPS250512P	**5/12/2025**	**18478**
LEPS250514P	**5/14/2025**	**18712**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 4 leachate permit samples collected May 6,8,12 and 14, 2025.

Sample Receiving Comments
No sample receiving anomalies were observed.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Conventionals QC Information
All calculable QC results for conventionals parameters were within laboratory control limits.

Metals QC Information
All calculable QC results for metals parameters were within laboratory control limits with the following exception.

During **Total Metals** analysis of analytical batch WG200377, a trace amount of ***total calcium*** was detected in the method blank (MB). The MB result for *total calcium* was qualified J and B based on this trace detection.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/23/2025
Report Group: CHLS-P_051425

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

Client Sample ID: **LEPS250512P**
SDG / Lab Sample ID: **18478 / L86043-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/12/2025**
Login Date: **05/13/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250514P**
SDG / Lab Sample ID: **18712 / L86043-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/14/2025**
Login Date: **05/15/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250508P**
SDG / Lab Sample ID: **18773 / L86021-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/08/2025**
Login Date: **05/08/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250506P**
SDG / Lab Sample ID: **18782 / L86017-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/06/2025**
Login Date: **05/07/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/23/2025
Report Group: CHLS-P_051425

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

Client Sample ID: **LEPS250512P**
CoC / Lab Sample ID: **18478 / L86043-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/12/2025**
Login Date: **05/13/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.343	D	.0512	.0512		05/16/2025	05/19/2025	WG200377
Antimony, Total	10	mg/L	.00836		.00307	.00307		05/16/2025	05/19/2025	WG200377
Arsenic, Total	10	mg/L	.0645		.000512	.000512	1	05/16/2025	05/19/2025	WG200377
Barium, Total	10	mg/L	.0707		.00512	.00512		05/16/2025	05/19/2025	WG200377
Beryllium, Total	10	mg/L	<.00102	U	.00102	.00102		05/16/2025	05/19/2025	WG200377
Cadmium, Total	10	mg/L	<.000512	U	.000512	.000512	0.5	05/16/2025	05/19/2025	WG200377
Calcium, Total	10	mg/L	72.1		.512	.512		05/16/2025	05/19/2025	WG200377
Chromium, Total	10	mg/L	.0793		.00205	.00205	2.75	05/16/2025	05/19/2025	WG200377
Cobalt, Total	10	mg/L	.0163		.000512	.000512		05/16/2025	05/19/2025	WG200377
Copper, Total	10	mg/L	.00437		.00205	.00205	3	05/16/2025	05/19/2025	WG200377
Iron, Total	10	mg/L	6.7	D	.102	.102		05/16/2025	05/19/2025	WG200377
Lead, Total	10	mg/L	<.00102	U	.00102	.00102	2	05/16/2025	05/19/2025	WG200377
Magnesium, Total	10	mg/L	45		.512	.512		05/16/2025	05/19/2025	WG200377
Manganese, Total	10	mg/L	.338	D	.00102	.00102		05/16/2025	05/19/2025	WG200377
Nickel, Total	10	mg/L	.0684		.00102	.00102	2.5	05/16/2025	05/19/2025	WG200377
Phosphorus, Total	10	mg/L	2.88		1.02	1.02		05/16/2025	05/19/2025	WG200377
Potassium, Total	10	mg/L	248		1.02	1.02		05/16/2025	05/19/2025	WG200377
Selenium, Total	10	mg/L	<.00512	U	.00512	.00512		05/16/2025	05/19/2025	WG200377
Silver, Total	10	mg/L	<.000409	U	.000409	.000409	1	05/16/2025	05/19/2025	WG200377
Sodium, Total	10	mg/L	685		1.02	1.02		05/16/2025	05/19/2025	WG200377
Thallium, Total	10	mg/L	<.000767	U	.000767	.000767		05/16/2025	05/19/2025	WG200377
Tin, Total	10	mg/L	.0073		.00512	.00512		05/16/2025	05/19/2025	WG200377
Vanadium, Total	10	mg/L	.0231		.000767	.000767		05/16/2025	05/19/2025	WG200377
Zinc, Total	10	mg/L	.097		.00512	.00512	5	05/16/2025	05/19/2025	WG200377
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/16/2025	05/19/2025	WG200390

Client Sample ID: **LEPS250514P**
CoC / Lab Sample ID: **18712 / L86043-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/14/2025**
Login Date: **05/15/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	11	mg/L	.07		.000539	.000539	1	05/16/2025	05/19/2025	WG200377

Client Sample ID: **LEPS250508P**
CoC / Lab Sample ID: **18773 / L86021-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/08/2025**
Login Date: **05/08/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0617		.000498	.000498	1	05/09/2025	05/12/2025	WG200249

Client Sample ID: **LEPS250506P**
CoC / Lab Sample ID: **18782 / L86017-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/06/2025**
Login Date: **05/07/2025**
Matrix: **LEACHATE**

Client Sample ID: **LEPS250506P**
CoC / Lab Sample ID: **18782 / L86017-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/06/2025**
Login Date: **05/07/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	5000	mg/L	562		10	50		05/13/2025	05/13/2025	WG200307
Nitrate + Nitrite as N	5	mg/L	<.05	U	.05	.2		05/14/2025	05/14/2025	WG200313

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/07/2025	05/08/2025	WG200226
Aluminum, Total	10	mg/L	.671		.0502	.0502		05/08/2025	05/12/2025	WG200229
Antimony, Total	10	mg/L	.0079		.00301	.00301		05/08/2025	05/12/2025	WG200229
Arsenic, Total	10	mg/L	.059		.000502	.000502	1	05/08/2025	05/12/2025	WG200229
Barium, Total	10	mg/L	.0864		.00502	.00502		05/08/2025	05/12/2025	WG200229
Beryllium, Total	10	mg/L	<.001	U	.001	.001		05/08/2025	05/12/2025	WG200229
Cadmium, Total	10	mg/L	<.000502	U	.000502	.000502	0.5	05/08/2025	05/12/2025	WG200229
Calcium, Total	10	mg/L	87.4		.502	.502		05/08/2025	05/12/2025	WG200229
Chromium, Total	10	mg/L	.0716		.00201	.00201	2.75	05/08/2025	05/12/2025	WG200229
Cobalt, Total	10	mg/L	.0154		.000502	.000502		05/08/2025	05/12/2025	WG200229
Copper, Total	10	mg/L	.00712		.00201	.00201	3	05/08/2025	05/12/2025	WG200229
Iron, Total	10	mg/L	7.35		.1	.1		05/08/2025	05/12/2025	WG200229
Lead, Total	10	mg/L	.00104		.001	.001	2	05/08/2025	05/12/2025	WG200229
Magnesium, Total	10	mg/L	39.4		.502	.502		05/08/2025	05/12/2025	WG200229
Manganese, Total	10	mg/L	.705		.001	.001		05/08/2025	05/12/2025	WG200229
Nickel, Total	10	mg/L	.0633		.001	.001	2.5	05/08/2025	05/12/2025	WG200229
Phosphorus, Total	10	mg/L	4.11		1	1		05/08/2025	05/12/2025	WG200229
Potassium, Total	10	mg/L	216		1	1		05/08/2025	05/12/2025	WG200229
Selenium, Total	10	mg/L	<.00502	U	.00502	.00502		05/08/2025	05/12/2025	WG200229
Silver, Total	10	mg/L	<.000401	U	.000401	.000401	1	05/08/2025	05/12/2025	WG200229
Sodium, Total	10	mg/L	615		1	1		05/08/2025	05/12/2025	WG200229
Thallium, Total	10	mg/L	<.000752	U	.000752	.000752		05/08/2025	05/12/2025	WG200229
Tin, Total	10	mg/L	.00544		.00502	.00502		05/08/2025	05/12/2025	WG200229
Vanadium, Total	10	mg/L	.0212		.000752	.000752		05/08/2025	05/12/2025	WG200229
Zinc, Total	10	mg/L	.157		.00502	.00502	5	05/08/2025	05/12/2025	WG200229

Target Parameter Count for Report Group: 54

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Quality Control Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200307 Dissolved Nutrients

MB:WG200307-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.002	0.01	mg/L		U

SB:WG200307-3 MB:WG200307-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0394	98		80--120

LCS:WG200307-4 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.05	0.0529	106		85--115

LD:WG200307-5 L86037-3 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-VAGW Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.009	0.0084			0--20

MS:WG200307-6 L86037-3 Matrix: GRND WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-VAGW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.009	0.04	0.0485	99		75--125

LD:WG200307-7 L86015-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	40	200	mg/L	2120	2150	1		0--20

MS:WG200307-8 L86015-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	40	200	mg/L	2120	0.04	2850	92		75--125

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200313 Dissolved Nutrients

MB:WG200313-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

SB:WG200313-3 MB:WG200313-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1.07	107		80--120

LCS:WG200313-4 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	1.01	101		85--115

LD:WG200313-5 L86017-1 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-P Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	U	U			0--20

MS:WG200313-6 L86017-1 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-P Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	U	1	5.34	107		75--125

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200226 Total Mercury by CVAA

MB:WG200226-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200226-2 MB:WG200226-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.992	99		85--115

MSD:WG200226-4 MS:WG200226-3 L86017-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.8	90		75--125	2	1.82	91		1		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200229 Total Metals by ICPMS

MB:WG200229-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

SB:WG200229-2 MB:WG200229-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20	100		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5190	104		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	4960	99		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	205	102		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5010	100		85--115
Potassium, Total	50	100	ug/L	<QL	5000	4990	100		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4920	98		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.7	103		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115
Iron, Total	5	10	ug/L	<QL	5000	5280	106		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.2	106		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.9	110		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.3	112		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.3	106		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.6	103		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	18.2	91		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.4	97		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	19	95		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	19.8	99		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	18.7	94		85--115

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

MSD:WG200229-4 MS:WG200229-3 L86017-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	200	213	106		75--125	198	212	107		1		0--20
Sodium, Total	1000	1000	ug/L	615000	50100	663000		4xRule	75--125	49600	658000		4xRule	1		0--20
Magnesium, Total	501	501	ug/L	39400	50100	87600	96		75--125	49600	86700	95		1		0--20
Aluminum, Total	50.1	50.1	ug/L	671	2000	2690	101		75--125	1980	2660	100		1		0--20
Phosphorus, Total	1000	1000	ug/L	4110	50100	55200	102		75--125	49600	54500	102		1		0--20
Potassium, Total	1000	1000	ug/L	216000	50100	265000		4xRule	75--125	49600	264000		4xRule	1		0--20
Calcium, Total	501	501	ug/L	87400	50100	137000	98		75--125	49600	136000	98		1		0--20
Vanadium, Total	0.752	0.752	ug/L	21.2	200	230	104		75--125	198	226	103		2		0--20
Chromium, Total	2	2	ug/L	71.6	200	283	105		75--125	198	280	105		1		0--20
Manganese, Total	1	1	ug/L	705	200	917	106		75--125	198	907	102		1		0--20
Iron, Total	100	100	ug/L	7350	50100	59400	104		75--125	49600	58500	103		2		0--20
Cobalt, Total	0.501	0.501	ug/L	15.4	200	225	105		75--125	198	221	104		2		0--20
Nickel, Total	1	1	ug/L	63.3	200	276	106		75--125	198	275	107		0		0--20
Copper, Total	2	2	ug/L	7.12	200	225	108		75--125	198	221	108		2		0--20
Zinc, Total	5.01	5.01	ug/L	157	200	372	107		75--125	198	367	106		1		0--20
Arsenic, Total	0.501	0.501	ug/L	59	200	267	104		75--125	198	266	104		0		0--20
Selenium, Total	5.01	5.01	ug/L	<QL	200	197	98		75--125	198	207	104		5		0--20
Silver, Total	0.401	0.401	ug/L	<QL	200	197	99		75--125	198	196	99		1		0--20
Cadmium, Total	0.501	0.501	ug/L	<QL	200	201	100		75--125	198	199	100		1		0--20
Tin, Total	5.01	5.01	ug/L	5.44	200	173	84		75--125	198	174	85		1		0--20
Antimony, Total	3.01	3.01	ug/L	7.9	200	218	105		75--125	198	214	104		2		0--20
Barium, Total	5.01	5.01	ug/L	86.4	200	290	102		75--125	198	291	103		0		0--20
Thallium, Total	0.752	0.752	ug/L	<QL	200	212	106		75--125	198	207	104		2		0--20
Lead, Total	1	1	ug/L	1.04	200	199	99		75--125	198	196	98		2		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200249 Total Metals by ICPMS

MB:WG200249-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG200249-2 MB:WG200249-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.3	102		85--115

MSD:WG200249-4 MS:WG200249-3 L86021-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.501	0.501	ug/L	61.7	200	273	106		75--125	200	273	105		0		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200377 Total Metals by ICPMS

MB:WG200377-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L	31.6	<QL,J,B
Vanadium, Total	0.0375	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.0375	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

SB:WG200377-2 MB:WG200377-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	18.9	95		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5370	107		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5160	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	204	102		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4860	97		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5090	102		85--115
Calcium, Total	25	50	ug/L	31.6	5000	4830	97		85--115
Vanadium, Total	0.0375	0.075	ug/L	<QL	20	20.3	101		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.9	109		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.7	109		85--115
Iron, Total	5	10	ug/L	<QL	5000	5070	101		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	20.7	103		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.5	108		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.1	101		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.2	101		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.1	100		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.8	99		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Thallium, Total	0.0375	0.075	ug/L	<QL	20	20.9	105		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.5	102		85--115

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

MSD:WG200377-4 MS:WG200377-3 L86043-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.999	0.999	ug/L	<QL	200	193	97		75--125	198	188	95		2		0--20
Sodium, Total	999	999	ug/L	685000	49900	726000		4xRule	75--125	49600	733000		4xRule	1		0--20
Magnesium, Total	499	499	ug/L	45000	49900	99300	109		75--125	49600	94700	100		5		0--20
Aluminum, Total	49.9	49.9	ug/L	343	2000	2340	100		75--125	1980	2320	100		1		0--20
Phosphorus, Total	999	999	ug/L	2880	49900	53100	100		75--125	49600	53100	101		0		0--20
Potassium, Total	999	999	ug/L	248000	49900	305000		4xRule	75--125	49600	301000		4xRule	1		0--20
Calcium, Total	499	499	ug/L	72100	49900	122000	100		75--125	49600	120000	97		1		0--20
Vanadium, Total	0.749	0.749	ug/L	23.1	200	238	107		75--125	198	231	105		3		0--20
Chromium, Total	2	2	ug/L	79.3	200	297	109		75--125	198	291	107		2		0--20
Manganese, Total	0.999	0.999	ug/L	338	200	550	106		75--125	198	545	104		1		0--20
Iron, Total	99.9	99.9	ug/L	6700	49900	55600	98		75--125	49600	56200	100		1		0--20
Cobalt, Total	0.499	0.499	ug/L	16.3	200	224	104		75--125	198	224	104		0		0--20
Nickel, Total	0.999	0.999	ug/L	68.4	200	270	101		75--125	198	275	104		2		0--20
Copper, Total	2	2	ug/L	4.37	200	219	107		75--125	198	218	108		0		0--20
Zinc, Total	4.99	4.99	ug/L	97	200	304	104		75--125	198	305	105		0		0--20
Arsenic, Total	0.499	0.499	ug/L	64.5	200	272	104		75--125	198	268	103		1		0--20
Selenium, Total	4.99	4.99	ug/L	<QL	200	209	105		75--125	198	206	104		2		0--20
Silver, Total	0.4	0.4	ug/L	<QL	200	195	98		75--125	198	195	98		0		0--20
Cadmium, Total	0.499	0.499	ug/L	<QL	200	202	101		75--125	198	198	100		2		0--20
Tin, Total	4.99	4.99	ug/L	7.3	200	198	96		75--125	198	192	93		3		0--20
Antimony, Total	3	3	ug/L	8.36	200	207	100		75--125	198	210	102		2		0--20
Barium, Total	4.99	4.99	ug/L	70.7	200	286	108		75--125	198	282	106		2		0--20
Thallium, Total	0.749	0.749	ug/L	<QL	200	206	103		75--125	198	212	107		3		0--20
Lead, Total	0.999	0.999	ug/L	<QL	200	206	103		75--125	198	201	102		2		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_051425 COC 18478, 18712, 18773, 18782

Workgroup: WG200390 Total Mercury by CVAA

MB:WG200390-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200390-2 MB:WG200390-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.987	99		85--115

MSD:WG200390-4 MS:WG200390-3 L86075-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-ALLS Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.96	98		75--125	2	1.98	99		1		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 5/13/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18478**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25)

Lab No.	Sample ID	Date	Time
860043-1	LEPS250512P	5/12/25	1100

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD 5-12-25

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 860493-1
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.1 R252	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): (CHLS-P(25) Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: (HLS-P(25)

Receive Date: 5-13-25 COC / SDG No.: 18478

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: MAY 13 25 1350

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 5/15/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18712**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time	Number of Bottles	Remarks
860043-2	LEPS25 05M4 P	5/14/25	1100	1	

Project Site Test Reference

GROUNDWATER

2	2.1	4	38	5	6	7	8	9	10	12
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/WAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty

SURFACE WATER

14	16	42	49.1	17	18	21
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS

TS

52	53	54	56	57	58
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER

24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mthly	CHLS-M_MOD CH Leachate Mods Mthly	CHLS-M_As CH Leachate As Sent-Ann.	CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty
						Y									

PERMIT

Relinquished By Sampler	Date	Received By	Date
Sampler Signature: J. Patten	5/15/25	Signature	
Sampler Printed Name: KCSWD	Time: 1240 *	Printed Name	Time
Company		Company	
Relinquished By	Date	Received By	Date: 5/15/25
Signature		Signature: Jason Leonard	
Printed Name	Time	Printed Name: KCEL	Time: 1345
Company		Company	

Observations/Comments/Special Instructions:

ARSENIC ONLY

* Custody sealed for delivery by courier

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 86043-2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.3 | 2.3 | 2.2	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5-14-25 — Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25.2)

Receive Date: 5-15-25 — COC / SDG No.: 18712

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAY 15 '25 13:52

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 5/8/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18773**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time	2 CHGW Cedar Hills GW Qtly	2.1 CHGW Cedar Hills EPZ GW Qtly	4 CHGWVAGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qtly	6 DUGW Duvall GW Qtly	7 ENGW Enumclaw GW Qtly	8 HOGW Hobart GW Qtly	9 HTGW Houghton GW Qtly	10 PUGW Puyallup GW Qtly	12 VAGW Vashon GW Qtly	14 CHSW-Q Cedar Hills SW Sta. E-1	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CHSW-E CH Emergency	17 CFSW Cedar Falls SW Qtly	18 DUSW Duvall SW Qtly	21 VASW Vashon SW Qtly-WEIRS	52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES	24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mthly	23+ CHLS-M_MOD CH Leachate Mods Mthly	23.1 CHLS-M_As CH Leachate As Semi-Ann.	25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (mnthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qtly	Number of Bottles	Remarks
				GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT												
86021-1	LEPS250508P	5/8/25	1100																													X										1	

Relinquished By Sampler: L R
Sampler Signature: I. Rivera
Sampler Printed Name: KCSWD
Company
Date: 5/8/25
Time: 1215

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Jason Kinnard
Signature
Printed Name: KCEC
Company
Date: 5-8-25
Time: 1935

Observations/Comments/Special Instructions:

Arsenic only

Samples custody sealed on 5/8/25 at 1215 hrs.

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 860211
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

Sample Collect Date(s): 5-8-25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P (25.2)

Receive Date: 5-8-25 COC / SDG No.: 18773

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	(Y) / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.3 2.1 2.1	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

COMMENTS / NOTIFICATIONS

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: MAY 08 '25 13:39

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 5/7/25

Department of
Natural Resources and Parks
Solid Waste Division

No. **18782**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.1)

Lab No.	Sample ID	Date	Time
860017-1	LEPS250500UP	5/6/25	1500

Project Site Test Reference

	CHGW	CHGW	CHGW/AGW	CHGW-OS	CFGW	DUGW	ENGW	HOGW	HTGW	PUGW	VAGW	CHSW-Q	CHSW-P	CHSW-TD	CHSW-E	CFSW	DUSW	VASW	HTSW-P	SHSW-P	FASW-P	ENSW-P	ALSW-P	VASW-P	CHTW	CHLS-M	CHLS-M_MOD	CHLS-M_As	CHLS-P	CHLS-P	CHLS-P	ALLS	BLLS	ENLS	FALS	SRLS	HTLS	RELS	VALS-P	VALS-Q
	Cedar Hills GW Qtly	Cedar Hills EPZ GW Qtly	Appendix III GW	Cedar Hills GW Offsite	Cedar Falls GW Qtly	Duvall GW Qtly	Enumclaw GW Qtly	Hobart GW Qtly	Houghton GW Qtly	Puyallup GW Qtly	Vashon GW Qtly	Cedar Hills SW Sta. E-1	Cedar Hills SW ISGP	Cedar Hills SW Top Deck	CH Emergency	Cedar Falls SW Qtly	Duvall SW Qtly	Vashon SW Qtly-MEIRS	Houghton SW NPDES	Shoreline SW NPDES	Factoria SW NPDES	Enumclaw SW NPDES	Algona SW NPDES	Vashon SW NPDES	Cedar Hills Truckwash	Cedar Hills Leachate Mthly	CH Leachate Mode Mthly	CH Leachate As Semi-Ann.	CH L Permit (wkly, 1st)	CH L Permit (mnthly)	CH L Permit (wkly, 2nd)	Algona WW Permit	Bow Lake WW Permit	Enumclaw WW Permit	Factoria WW Permit	Shoreline WW Permit	Houghton WW Permit	Renton WW Permit	Vashon WW Permit Tanker	Vashon Leachate Qtly
	GROUNDWATER											SURFACE WATER							TS						LEACHATE/WASTEWATER				PERMIT											
	2	2.1	4	38	5	6	7	8	9	10	12	14	16	42	49.1	17	18	21	52	53	54	56	57	58	24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
																														X										

Remarks: Diss Sulfide? < 0.1 ppm

Number of Bottles: 2

	Relinquished By Sampler	Date	Received By	Date
	Hannah Spear	5/7/25		5/07/25
Signature	H. Spear		I. Rivera	
Printed Name	KCSWD	Time 1000	KCSWD	Time 1000
Company			Company	
	Relinquished By	Date	Received By	Date
Signature	I. Rivera	5/07/25	Jason Kinnaird	5-7-25
Printed Name	KCSWD	Time 1140	KCEL	Time 1140
Company			Company	

Observations/Comments/Special Instructions:
+ Nutrients field filtered

Total # of Bottles: 2

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s): 86017-1
40 mL clear vial (VOA)	
60 mL CWM HDPE	1
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	2

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	1.7 / 1.7	Delivery Location	Y / N	

Sub-Contracting: Y / N — List Product(s):

Changes: Y / N — List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5-6-25 — Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25.1)

Receive Date: 5-7-25 — COC / SDG No.: 18782

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other: Nutrients field filtered			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____ Date / Time Completed: MAY 07 '25 11:55

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

June 4, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250519P	**5/19/2025**	**18506**
LEPS250521P	**5/21/2025**	**18855**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 2 leachate permit samples collected May 19 and 21, 2025.

Sample Receiving Comments

No sample receiving anomalies were observed.

Metals QC Information

All calculable QC results for metals parameters were within laboratory control limits.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/04/2025
Report Group: CHLS-P_052725

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

Client Sample ID: **LEPS250519P**
SDG / Lab Sample ID: **18506 / L86103-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/19/2025**
Login Date: **05/20/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250521P**
SDG / Lab Sample ID: **18855 / L86103-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/21/2025**
Login Date: **05/22/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 05/30/2025
Report Group: CHLS-P_052725

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

Client Sample ID: **LEPS250519P**
CoC / Lab Sample ID: **18506 / L86103-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/19/2025**
Login Date: **05/20/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/21/2025	05/22/2025	WG200486
Aluminum, Total	10	mg/L	.396		.0504	.0504		05/22/2025	05/27/2025	WG200488
Antimony, Total	10	mg/L	.0101		.00302	.00302		05/22/2025	05/27/2025	WG200488
Arsenic, Total	10	mg/L	.079		.000504	.000504	1	05/22/2025	05/27/2025	WG200488
Barium, Total	10	mg/L	.0565		.00504	.00504		05/22/2025	05/27/2025	WG200488
Beryllium, Total	10	mg/L	<.00101	U	.00101	.00101		05/22/2025	05/27/2025	WG200488
Cadmium, Total	10	mg/L	<.000504	U	.000504	.000504	0.5	05/22/2025	05/27/2025	WG200488
Calcium, Total	10	mg/L	60.5		.504	.504		05/22/2025	05/27/2025	WG200488
Chromium, Total	10	mg/L	.0915		.00201	.00201	2.75	05/22/2025	05/27/2025	WG200488
Cobalt, Total	10	mg/L	.0195		.000504	.000504		05/22/2025	05/27/2025	WG200488
Copper, Total	10	mg/L	.00461		.00201	.00201	3	05/22/2025	05/27/2025	WG200488
Iron, Total	10	mg/L	7.13		.101	.101		05/22/2025	05/27/2025	WG200488
Lead, Total	10	mg/L	<.00101	U	.00101	.00101	2	05/22/2025	05/27/2025	WG200488
Magnesium, Total	10	mg/L	52.6		.504	.504		05/22/2025	05/27/2025	WG200488
Manganese, Total	10	mg/L	.209		.00101	.00101		05/22/2025	05/27/2025	WG200488
Nickel, Total	10	mg/L	.0788		.00101	.00101	2.5	05/22/2025	05/27/2025	WG200488
Phosphorus, Total	10	mg/L	3.68		1.01	1.01		05/22/2025	05/27/2025	WG200488
Potassium, Total	10	mg/L	306		1.01	1.01		05/22/2025	05/27/2025	WG200488
Selenium, Total	10	mg/L	<.00504	U	.00504	.00504		05/22/2025	05/27/2025	WG200488
Silver, Total	10	mg/L	<.000403	U	.000403	.000403	1	05/22/2025	05/27/2025	WG200488
Sodium, Total	10	mg/L	820		1.01	1.01		05/22/2025	05/27/2025	WG200488
Thallium, Total	10	mg/L	<.000756	U	.000756	.000756		05/22/2025	05/27/2025	WG200488
Tin, Total	10	mg/L	.00697		.00504	.00504		05/22/2025	05/27/2025	WG200488
Vanadium, Total	10	mg/L	.0272		.000756	.000756		05/22/2025	05/27/2025	WG200488
Zinc, Total	10	mg/L	.107		.00504	.00504	5	05/22/2025	05/27/2025	WG200488

Client Sample ID: **LEPS250521P**
CoC / Lab Sample ID: **18855 / L86103-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/21/2025**
Login Date: **05/22/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0801		.000502	.000502	1	05/23/2025	05/27/2025	WG200528

Target Parameter Count for Report Group: 26

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Quality Control Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_052725 COC 18506, 18855

Workgroup: WG200486 Total Mercury by CVAA

MB:WG200486-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200486-2 MB:WG200486-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.985	99		85--115

MSD:WG200486-4 MS:WG200486-3 L86104-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-VALS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.77	88		75--125	2	1.78	89		1		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_052725 COC 18506, 18855

Workgroup: WG200488 Total Metals by ICPMS

MB:WG200488-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.038	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.038	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_052725 COC 18506, 18855

SB:WG200488-2 MB:WG200488-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.9	105		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5430	109		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5300	106		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	206	103		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4930	99		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5290	106		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4880	98		85--115
Vanadium, Total	0.038	0.075	ug/L	<QL	20	20.4	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	20.9	105		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21	105		85--115
Iron, Total	5	10	ug/L	<QL	5000	5260	105		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.3	107		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.1	105		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.1	106		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.9	104		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	21	105		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.5	103		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	21.2	106		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.1	101		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.1	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.9	104		85--115
Thallium, Total	0.038	0.075	ug/L	<QL	20	21.2	106		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.3	107		85--115

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_052725 COC 18506, 18855

MSD:WG200488-4 MS:WG200488-3 L86103-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.986	0.986	ug/L	<QL	197	202	103		75--125	198	208	105		3		0--20
Sodium, Total	986	986	ug/L	820000	49300	891000		4xRule	75--125	49400	867000		4xRule	3		0--20
Magnesium, Total	493	493	ug/L	52600	49300	104000	104		75--125	49400	102000	101		2		0--20
Aluminum, Total	49.3	49.3	ug/L	396	1970	2440	104		75--125	1980	2490	106		2		0--20
Phosphorus, Total	986	986	ug/L	3680	49300	54000	102		75--125	49400	54600	103		1		0--20
Potassium, Total	986	986	ug/L	306000	49300	359000		4xRule	75--125	49400	359000		4xRule	0		0--20
Calcium, Total	493	493	ug/L	60500	49300	109000	99		75--125	49400	110000	101		1		0--20
Vanadium, Total	0.739	0.739	ug/L	27.2	197	231	104		75--125	198	230	103		0		0--20
Chromium, Total	1.97	1.97	ug/L	91.5	197	293	102		75--125	198	294	103		0		0--20
Manganese, Total	0.986	0.986	ug/L	209	197	417	106		75--125	198	417	105		0		0--20
Iron, Total	98.6	98.6	ug/L	7130	49300	57700	103		75--125	49400	57900	103		0		0--20
Cobalt, Total	0.493	0.493	ug/L	19.5	197	229	106		75--125	198	228	106		0		0--20
Nickel, Total	0.986	0.986	ug/L	78.8	197	284	104		75--125	198	282	103		1		0--20
Copper, Total	1.97	1.97	ug/L	4.61	197	206	102		75--125	198	205	102		1		0--20
Zinc, Total	4.93	4.93	ug/L	107	197	318	107		75--125	198	317	106		0		0--20
Arsenic, Total	0.493	0.493	ug/L	79	197	290	107		75--125	198	288	106		1		0--20
Selenium, Total	4.93	4.93	ug/L	<QL	197	214	108		75--125	198	212	107		1		0--20
Silver, Total	0.394	0.394	ug/L	<QL	197	193	98		75--125	198	191	97		1		0--20
Cadmium, Total	0.493	0.493	ug/L	<QL	197	205	104		75--125	198	204	103		1		0--20
Tin, Total	4.93	4.93	ug/L	6.97	197	172	83		75--125	198	191	93		11		0--20
Antimony, Total	2.96	2.96	ug/L	10.1	197	209	101		75--125	198	224	108		7		0--20
Barium, Total	4.93	4.93	ug/L	56.5	197	264	105		75--125	198	272	109		3		0--20
Thallium, Total	0.739	0.739	ug/L	<QL	197	202	102		75--125	198	209	106		3		0--20
Lead, Total	0.986	0.986	ug/L	<QL	197	204	104		75--125	198	210	106		3		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_052725 COC 18506, 18855

Workgroup: WG200528 Total Metals by ICPMS

MB:WG200528-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG200528-2 MB:WG200528-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.6	103		85--115

MSD:WG200528-4 MS:WG200528-3 L86103-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.492	0.492	ug/L	80.1	197	286	105		75--125	196	287	105		0		0--20

==========

4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 5/20/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18506**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25)

Lab No.	Sample ID	Date	Time
861103-1	LEFS250519P	5/19/25	1100

Project Site Test Reference

| | GROUNDWATER | | | | | | | | | | | | SURFACE WATER | | | | | | | | | | | | LEACHATE/WASTEWATER | | | | | | | | | | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 86103 -1
40 mL clear vial (VOA)	
60 mL CWM HDPE	
125 mL CNM HDPE	
125 mL CWM HDPE	
125 mL GANM w/HCl	
250 mL CWM HDPE	
250 mL GAWM w/H_2SO_4	
500 mL AWM HDPE	
500 mL CWM HDPE	
500 mL CWM PP (MICRO)	
500 mL HDPE (METALS)	1
500 mL GAWM	
1L CWM HDPE	
1L GANM	
1L GAWM w/ H_2SO_4	
2L CWM HDPE:	
Other -	
Other -	
Other -	
Other -	
Other -	
Total # of Samples	1

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2.0 11.9 20	Delivery Location	Y / N	

Sub-Contracting: Y / N List Product(s):

Changes: Y / N List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5-19-25 Project No.: 421422

VTRP Collect Date(s): — Project Site Test Reference: CHLS-P(25)

Receive Date: 5-19-25 COC / SDG No.: 18506

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	Y / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually Inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually Inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually Inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: _____

Date / Time Completed: MAY 20 '25 14:00

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 5/22/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18855**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P (25.2)

Lab No.	Sample ID	Date	Time
86103-2	LEPS250521P	5/21/25	1100

Project Site Test Reference

| | | |

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 86103										
	2										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)	1										
500 mL HDPE (METALS)											
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples	1										

Number of bottles per sample

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	2-2.2, 1.8	Delivery Location	Y / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5/21/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHLS-P(25.2)

Receive Date: 5/22/25 COC / SDG No.: 18855

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	(Y) / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex J

Date / Time Completed: MAY 22 '25 14:06

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

June 11, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250527P	**5/27/2025**	**18861**
LEPS250527F	**5/27/2025**	
LEPS250528P	**5/28/2025**	**18848**

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 3 leachate permit samples collected May 27 and 28, 2025.

Sample Receiving Comments
No sample receiving anomalies were observed.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Metals QC Information

All calculable QC results for metals parameters were within laboratory control limits with the following exception.

During **Total Metals** analysis of analytical batch WG200558, a trace amount of ***total silver*** was detected in the method blank (MB). The *total silver* result for the MB was qualified B on the basis of this trace detection.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/11/2025
Report Group: CHLS-P_060325

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

Client Sample ID: **LEPS250528P**
SDG / Lab Sample ID: **18848 / L86148-3**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/28/2025**
Login Date: **05/29/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250527P**
SDG / Lab Sample ID: **18861 / L86148-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/27/2025**
Login Date: **05/27/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250527F**
SDG / Lab Sample ID: **18861 / L86148-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **05/27/2025**
Login Date: **05/27/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/11/2025
Report Group: CHLS-P_060325

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

Client Sample ID: **LEPS250528P**
CoC / Lab Sample ID: **18848 / L86148-3**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/28/2025**
Login Date: **05/29/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Arsenic, Total	10	mg/L	.0892		.000491	.000491	1	05/30/2025	06/02/2025	WG200617

Client Sample ID: **LEPS250527P**
CoC / Lab Sample ID: **18861 / L86148-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/27/2025**
Login Date: **05/27/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.439		.0489	.0489		05/28/2025	05/29/2025	WG200558
Antimony, Total	10	mg/L	.0109		.00294	.00294		05/28/2025	05/29/2025	WG200558
Arsenic, Total	10	mg/L	.0871		.000489	.000489	1	05/28/2025	05/29/2025	WG200558
Barium, Total	10	mg/L	.0479		.00489	.00489		05/28/2025	05/29/2025	WG200558
Beryllium, Total	10	mg/L	<.000978	U	.000978	.000978		05/28/2025	05/29/2025	WG200558
Cadmium, Total	10	mg/L	<.000489	U	.000489	.000489	0.5	05/28/2025	05/29/2025	WG200558
Calcium, Total	10	mg/L	57.3		.489	.489		05/28/2025	05/29/2025	WG200558
Chromium, Total	10	mg/L	.106		.00196	.00196	2.75	05/28/2025	05/29/2025	WG200558
Cobalt, Total	10	mg/L	.0217		.000489	.000489		05/28/2025	05/29/2025	WG200558
Copper, Total	10	mg/L	.0061		.00196	.00196	3	05/28/2025	05/29/2025	WG200558
Iron, Total	10	mg/L	6.7		.0978	.0978		05/28/2025	05/29/2025	WG200558
Lead, Total	10	mg/L	<.000978	U	.000978	.000978	2	05/28/2025	05/29/2025	WG200558
Magnesium, Total	10	mg/L	51.7		.489	.489		05/28/2025	05/29/2025	WG200558
Manganese, Total	10	mg/L	.175		.000978	.000978		05/28/2025	05/29/2025	WG200558
Nickel, Total	10	mg/L	.0911		.000978	.000978	2.5	05/28/2025	05/29/2025	WG200558
Phosphorus, Total	10	mg/L	4.56		.978	.978		05/28/2025	05/29/2025	WG200558
Potassium, Total	10	mg/L	320		.978	.978		05/28/2025	05/29/2025	WG200558
Selenium, Total	10	mg/L	<.00489	U	.00489	.00489		05/28/2025	05/29/2025	WG200558
Silver, Total	10	mg/L	<.000391	U	.000391	.000391	1	05/28/2025	05/29/2025	WG200558
Sodium, Total	10	mg/L	912		.978	.978		05/28/2025	05/29/2025	WG200558
Thallium, Total	10	mg/L	<.000734	U	.000734	.000734		05/28/2025	05/29/2025	WG200558
Tin, Total	10	mg/L	.0104		.00489	.00489		05/28/2025	05/29/2025	WG200558
Vanadium, Total	10	mg/L	.0316		.000734	.000734		05/28/2025	05/29/2025	WG200558
Zinc, Total	10	mg/L	.125		.00489	.00489	5	05/28/2025	05/29/2025	WG200558
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		05/28/2025	05/29/2025	WG200595

Client Sample ID: **LEPS250527F**
CoC / Lab Sample ID: **18861 / L86148-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **05/27/2025**
Login Date: **05/27/2025**
Matrix: **LEACHATE**

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	<.0492	U	.0492	.0492		05/28/2025	05/29/2025	WG200558
Antimony, Total	10	mg/L	<.00295	U	.00295	.00295		05/28/2025	05/29/2025	WG200558
Arsenic, Total	10	mg/L	<.000492	U	.000492	.000492	1	05/28/2025	05/29/2025	WG200558
Barium, Total	10	mg/L	<.00492	U	.00492	.00492		05/28/2025	05/29/2025	WG200558
Beryllium, Total	10	mg/L	<.000984	U	.000984	.000984		05/28/2025	05/29/2025	WG200558

Client Sample ID: **LEPS250527F** Collect Date: **05/27/2025**
CoC / Lab Sample ID: **18861 / L86148-2** Login Date: **05/27/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Cadmium, Total	**10**	**mg/L**	**<.000492**	**U**	**.000492**	**.000492**	**0.5**	**05/28/2025**	**05/29/2025**	**WG200558**
Calcium, Total	**10**	**mg/L**	**<.492**	**U**	**.492**	**.492**		**05/28/2025**	**05/29/2025**	**WG200558**
Chromium, Total	**10**	**mg/L**	**<.00197**	**U**	**.00197**	**.00197**	**2.75**	**05/28/2025**	**05/29/2025**	**WG200558**
Cobalt, Total	**10**	**mg/L**	**<.000492**	**U**	**.000492**	**.000492**		**05/28/2025**	**05/29/2025**	**WG200558**
Copper, Total	**10**	**mg/L**	**<.00197**	**U**	**.00197**	**.00197**	**3**	**05/28/2025**	**05/29/2025**	**WG200558**
Iron, Total	**10**	**mg/L**	**<.0984**	**U**	**.0984**	**.0984**		**05/28/2025**	**05/29/2025**	**WG200558**
Lead, Total	**10**	**mg/L**	**<.000984**	**U**	**.000984**	**.000984**	**2**	**05/28/2025**	**05/29/2025**	**WG200558**
Magnesium, Total	**10**	**mg/L**	**<.492**	**U**	**.492**	**.492**		**05/28/2025**	**05/29/2025**	**WG200558**
Manganese, Total	**10**	**mg/L**	**<.000984**	**U**	**.000984**	**.000984**		**05/28/2025**	**05/29/2025**	**WG200558**
Nickel, Total	**10**	**mg/L**	**<.000984**	**U**	**.000984**	**.000984**	**2.5**	**05/28/2025**	**05/29/2025**	**WG200558**
Phosphorus, Total	**10**	**mg/L**	**<.984**	**U**	**.984**	**.984**		**05/28/2025**	**05/29/2025**	**WG200558**
Potassium, Total	**10**	**mg/L**	**<.984**	**U**	**.984**	**.984**		**05/28/2025**	**05/29/2025**	**WG200558**
Selenium, Total	**10**	**mg/L**	**<.00492**	**U**	**.00492**	**.00492**		**05/28/2025**	**05/29/2025**	**WG200558**
Silver, Total	**10**	**mg/L**	**<.000394**	**U**	**.000394**	**.000394**	**1**	**05/28/2025**	**05/29/2025**	**WG200558**
Sodium, Total	**10**	**mg/L**	**<.984**	**U**	**.984**	**.984**		**05/28/2025**	**05/29/2025**	**WG200558**
Thallium, Total	**10**	**mg/L**	**<.000738**	**U**	**.000738**	**.000738**		**05/28/2025**	**05/29/2025**	**WG200558**
Tin, Total	**10**	**mg/L**	**<.00492**	**U**	**.00492**	**.00492**		**05/28/2025**	**05/29/2025**	**WG200558**
Vanadium, Total	**10**	**mg/L**	**<.000738**	**U**	**.000738**	**.000738**		**05/28/2025**	**05/29/2025**	**WG200558**
Zinc, Total	**10**	**mg/L**	**<.00492**	**U**	**.00492**	**.00492**	**5**	**05/28/2025**	**05/29/2025**	**WG200558**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**05/28/2025**	**05/29/2025**	**WG200595**

Target Parameter Count for Report Group: 51

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Quality Control Data

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_060305 COC 18848, 18861

Workgroup: WG200558 Total Metals by ICPMS

MB:WG200558-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.038	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L	0.022	<QL,J,B
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.038	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_060305 COC 18848, 18861

SB:WG200558-2 MB:WG200558-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.5	102		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5240	105		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5030	101		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	207	104		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5060	101		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5120	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	5150	103		85--115
Vanadium, Total	0.038	0.075	ug/L	<QL	20	21.1	105		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.7	109		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115
Iron, Total	5	10	ug/L	<QL	5000	5400	108		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.8	109		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.3	112		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.6	108		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.5	102		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.2	101		85--115
Silver, Total	0.02	0.04	ug/L	0.022	20	21.1	106		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.8	99		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.6	98		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.6	103		85--115
Thallium, Total	0.038	0.075	ug/L	<QL	20	20.4	102		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	18.8	94		85--115

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_060305 COC 18848, 18861

MSD:WG200558-4 MS:WG200558-3 L86148-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.984	0.984	ug/L	<QL	197	201	102		75--125	197	204	104		2		0--20
Sodium, Total	984	984	ug/L	912000	49200	956000		4xRule	75--125	49200	946000		4xRule	1		0--20
Magnesium, Total	492	492	ug/L	51700	49200	98700	96		75--125	49200	98200	95		1		0--20
Aluminum, Total	49.2	49.2	ug/L	439	1970	2470	103		75--125	1970	2470	103		0		0--20
Phosphorus, Total	984	984	ug/L	4560	49200	56500	106		75--125	49200	54500	102		3		0--20
Potassium, Total	984	984	ug/L	320000	49200	386000		4xRule	75--125	49200	383000		4xRule	1		0--20
Calcium, Total	492	492	ug/L	57300	49200	108000	102		75--125	49200	107000	101		1		0--20
Vanadium, Total	0.738	0.738	ug/L	31.6	197	236	104		75--125	197	237	104		0		0--20
Chromium, Total	1.97	1.97	ug/L	106	197	311	104		75--125	197	312	105		0		0--20
Manganese, Total	0.984	0.984	ug/L	175	197	378	103		75--125	197	379	103		0		0--20
Iron, Total	98.4	98.4	ug/L	6700	49200	58300	105		75--125	49200	57900	104		1		0--20
Cobalt, Total	0.492	0.492	ug/L	21.7	197	229	105		75--125	197	231	107		1		0--20
Nickel, Total	0.984	0.984	ug/L	91.1	197	299	106		75--125	197	301	107		1		0--20
Copper, Total	1.97	1.97	ug/L	6.1	197	218	108		75--125	197	221	109		1		0--20
Zinc, Total	4.92	4.92	ug/L	125	197	336	107		75--125	197	340	109		1		0--20
Arsenic, Total	0.492	0.492	ug/L	87.1	197	291	104		75--125	197	292	104		0		0--20
Selenium, Total	4.92	4.92	ug/L	<QL	197	209	106		75--125	197	207	105		1		0--20
Silver, Total	0.393	0.393	ug/L	<QL	197	196	100		75--125	197	197	100		1		0--20
Cadmium, Total	0.492	0.492	ug/L	<QL	197	195	99		75--125	197	198	100		1		0--20
Tin, Total	4.92	4.92	ug/L	10.4	197	177	85		75--125	197	189	91		6		0--20
Antimony, Total	2.95	2.95	ug/L	10.9	197	209	101		75--125	197	211	102		1		0--20
Barium, Total	4.92	4.92	ug/L	47.9	197	253	104		75--125	197	256	106		1		0--20
Thallium, Total	0.738	0.738	ug/L	<QL	197	199	101		75--125	197	201	102		1		0--20
Lead, Total	0.984	0.984	ug/L	<QL	197	186	94		75--125	197	189	96		2		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_060305 COC 18848, 18861

Workgroup: WG200595 Total Mercury by CVAA

MB:WG200595-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200595-2 MB:WG200595-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.998	100		85--115

MSD:WG200595-4 MS:WG200595-3 L86148-2 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	2.01	101		75--125	2	1.99	99		1		0--20

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

King County Environmental Laboratory QC Report

CHLS-P_060305 COC 18848, 18861

Workgroup: WG200617 Total Metals by ICPMS

MB:WG200617-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG200617-2 MB:WG200617-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115

MSD:WG200617-4 MS:WG200617-3 L86148-3 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.502	0.502	ug/L	89.2	201	299	105		75--125	201	299	104		0		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 5/29/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18848**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.2)

Lab No.	Sample ID	Date	Time
86148-1	LEPS250528P	5/28/25	1100
-3			
JL			

Project Site Test Reference

GROUNDWATER

2	2.1	4	38	5	6	7	8	9	10	12
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty

SURFACE WATER

14	16	42	49.1	17	18	21	52	53	54	56	57	58
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS	TS: HTSW-P Houghton SW NPDES	TS: SHSW-P Shorelins SW NPDES	TS: FASW-P Factoria SW NPDES	TS: ENSW-P Enumclaw SW NPDES	TS: ALSW-P Algona SW NPDES	TS: VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER

24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHTW Cedar Hills Truckwash	GHLS-M Cedar Hills Leachate Mthy	CHLS-M_MOD CH Leachate Mods Mthy	CHLS-M_As CH Leachate As Semi-Ann.	PERMIT: CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty

Lab No.	Number of Bottles	Remarks
86148-1	1	
-3		
JL		

Relinquished By Sampler: Hannah Spear
Sampler Signature: H. Spear
Sampler Printed Name: KCSWD
Company
Date: 5/29/25
Time: 1145

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Alex Tejo
Signature: A. Tejo
Printed Name: KCEL
Company
Date: 5/29/25
Time: 1345

Observations/Comments/Special Instructions:

Arsenic only

Custody sealed 5/29/25 @ 1145.

Total # of Bottles: 1

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 861148										
	3										
40 mL clear vial (VOA)											
60 mL CWM HDPE											
125 mL CNM HDPE											
125 mL CWM HDPE											
125 mL GANM w/HCl											
250 mL CWM HDPE											
250 mL GAWM w/H_2SO_4											
500 mL AWM HDPE											
500 mL CWM HDPE											
500 mL CWM PP (MICRO)											
500 mL HDPE (METALS)	1										
500 mL GAWM											
1L CWM HDPE											
1L GANM											
1L GAWM w/ H_2SO_4											
2L CWM HDPE:											
Other -											
Other -											
Other -											
Other -											
Other -											
Total # of Samples 1	1										
	Number of bottles per sample										

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	(Y) / N		Volumes	(Y) / N	
Container	Y / N		Holding Times	(Y) / N	
Cooler Temperature (° C)	(Y) / N	2.0 / 2.0 / 2.0	Delivery Location	(Y) / N	

Sub-Contracting: Y / (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5/28/25 Project No.: 421422

VTRP Collect Date(s): Project Site Test Reference: CHUP(2.5.2)

Receive Date: 5/29/25 COC / SDG No.: 18548

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Tapp

Date / Time Completed: MAY 29 '25 14:02

Docusign Envelope ID: 16CED9EB-E408-4972-94CF-405CED82890D

Chain of Custody Record

Environmental Monitoring Program

Date: 5/27/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18861**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25)

Lab No.	Sample ID	Date	Time
86148-1	LEPS250527P	5/27/25	1100
86148-2	LEPS250527F	5/27/25	1145

Project Site Test Reference

GROUNDWATER											
2 CHGW Cedar Hills GW Qlty	2.1 CHGW Cedar Hills EPZ GW Qlty	4 CHGWVAGW Appendix III GW	38 CHGW-OS Cedar Hills GW Offsite	5 CFGW Cedar Falls GW Qlty	6 DUGW Duvall GW Qlty	7 ENGW Enumclaw GW Qlty	8 HOGW Hobart GW Qlty	9 HTGW Houghton GW Qlty	10 PUGW Puyallup GW Qlty	12 VAGW Vashon GW Qlty	

SURFACE WATER											
14 CHSW-Q Cedar Hills SW Sta. E-1	16 CHSW-P Cedar Hills SW ISGP	42 CHSW-TD Cedar Hills SW Top Deck	49.1 CHSW-E CH Emergency	17 CFSW Cedar Falls SW Qlty	18 DUSW Duvall SW Qlty	21 VASW Vashon SW Qlty-WEIRS					

TS						
52 HTSW-P Houghton SW NPDES	53 SHSW-P Shoreline SW NPDES	54 FASW-P Factoria SW NPDES	56 ENSW-P Enumclaw SW NPDES	57 ALSW-P Algona SW NPDES	58 VASW-P Vashon SW NPDES	

LEACHATE/WASTEWATER													
24 CHTW Cedar Hills Truckwash	23 CHLS-M Cedar Hills Leachate Mthly	23+ CHLS-M_MOD CH Leachate Mods Mthly	23.1 CHLS-M_As CH Leachate As Semi-Ann.	25 CHLS-P CH L Permit (wkly, 1st)	25.1 CHLS-P CH L Permit (monthly)	25.2 CHLS-P CH L Permit (wkly, 2nd)	26 ALLS Algona WW Permit	20 BLLS Bow Lake WW Permit	27 ENLS Enumclaw WW Permit	28 FALS Factoria WW Permit	29 SRLS Shoreline WW Permit	30 HTLS Houghton WW Permit	31 RELS Renton WW Permit	32 VALS-P Vashon WW Permit Tanker	34 VALS-Q Vashon Leachate Qlty	

PERMIT													
CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (monthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty	Number of Bottles	Remarks
X												1	DISS. SULFIDE <0.1 ppm
X												1	N/A

Relinquished By Sampler: J. Patten
Sampler Signature: J. Patten
Date: 5/27/25
Sampler Printed Name: KCSWD
Company
Time: 1255*

Relinquished By
Signature
Printed Name
Company
Date
Time

Received By
Signature
Printed Name
Company
Date
Time

Received By: Alex Trejo
Signature: A. Trejo
Printed Name: KCEL
Company
Date: 5/27/25
Time: 1341

Observations/Comments/Special Instructions:
*Custody sealed

Total # of Bottles: 2

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

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SWD SAMPLE RECEIPT RECORD

BOTTLE COUNT (#) AND DESCRIPTION and SAMPLE NUMBERS

Bottle Description	Login Number(s) 86148	
	1	2
40 mL clear vial (VOA)		
60 mL CWM HDPE		
125 mL CNM HDPE		
125 mL CWM HDPE		
125 mL GANM w/HCl		
250 mL CWM HDPE		
250 mL GAWM w/H_2SO_4		
500 mL AWM HDPE		
500 mL CWM HDPE		
500 mL CWM PP (MICRO)		
500 mL HDPE (METALS)	1	1
500 mL GAWM		
1L CWM HDPE		
1L GANM		
1L GAWM w/ H_2SO_4		
2L CWM HDPE:		
Other -		
Other -		
Other -		
Other -		
Other -		
Total # of Samples 2	1	1
	Number of bottles per sample	

SAMPLE RECEIPT CONDITIONS

CONDITION	Acceptable?	Comment	CONDITION	Acceptable?	Comment
Labels / Fieldsheets	Y / N		Volumes	Y / N	
Container	Y / N		Holding Times	Y / N	
Cooler Temperature (° C)	Y / N	3.5 | 3.9 | 3.7	Delivery Location	Y / N	

Sub-Contracting: Y (N) List Product(s):

Changes: Y / (N) List Parameter(s):

COMMENTS / NOTIFICATIONS

Sample Collect Date(s): 5/27/25 Project No.: 421422

VTRP Collect Date(s): ——— Project Site Test Reference: CHS-P(25)

Receive Date: 5/27/25 COC / SDG No.: 18861

FIELD PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
BNA / pH 6 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Notify ORG
CN / pH > 12 w/ NaOH within 15 min	☐ Check pH	Y / N	☐ Deliver to CONV
COD / TKN / pH < 2 w/ H_2SO_4 within 15 min	☐ Check pH	Y / N	☐ Preserve By SM
MICRO / $Na_2S_2O_3$	Check documentation	Y / N / NA	☐ Deliver to MICRO
O&G / HEM / PHENOL / pH < 2 w/ H_2SO_4	Check documentation	Y / N	☐ Preserve By SM
TOC / pH < 2 w/ HCl	☐ Check pH	Y / N	☐ Preserve By SM
TOTSULFIDE / pH > 9 w/ NaOH, ZnAc	Check documentation	Y / N	☐ Deliver to CONV
VOA / HCl	Check documentation	Y / N	☐ Deliver to ORG
ICPMS/CVAA / pH < 2 w/ HNO_3 (CHLS-P #25)	Check documentation	(Y) / N	☐ Preserve By SM
Other:			
Other:			
Other:			
Other:			
Other:			

ROUTINE SM PRESERVATION CHECKLIST (Circle and/or check applicable selections)

PRODUCT / Preservation	SM Action	Acceptable?	Corrective Action
Chlorinated Pesticides / pH 5 - 9 w/ H_2SO_4 or NaOH	√ field sheet for F. pH	Y / N	☐ Adjust pH
HG-CVAA-M (T / D) / pH < 2 w/ HNO_3	☐ Preserve & deliver	NA	NA
ICPMS (T / D) / pH < 2 w/ ULTRA HNO_3	☐ Preserve & deliver	NA	NA
Other:			

INTERFERENCE TEST (Circle and/or check applicable selections)

Product / Interference (SM Action)	Positive Test?	Treated	Corrective Action
BNA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
CN / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
CN / Sulfide (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to CONV
VOA / Chlorine (Check documentation)	Y / N / not tested	Y / N	☐ Deliver to ORG
Other:			

HEADSPACE CHECK

PRODUCT (SM Action)	Check For	Acceptable?	Corrective Action
MICRO (Visually inspect)	Headspace (@ 1")	Y / N	☐ Notify MICRO
TOTSULFIDE (Visually inspect)	Headspace (< 1")	Y / N	☐ Notify CONV
VOA (Visually inspect)	Zero headspace	Y / N	☐ Notify ORG
Other:			
Other:			

FIELD FILTRATION CHECKLIST (Circle and/or check applicable selections)

Product (SM Action)	Field Filtered	Field Blank	Corrective Action
Dissolved Metals (Check Field Sheet)	Y / N	Y / N	☐ Deliver to Metals
Dissolved ORTHOP (Check Field Sheet)	Y (within 15 min y / n) / N	Y / N	☐ Deliver to CONV
Other:			
Other:			

CC: ☐ CONV, ☐ METALS, ☐ MICRO, ☐ ORG, ☐ _____

NOTES

1. Deliver dissolved Hg-CVAF samples to METALS for filtration.
2. Deliver double-bagged metals samples to METALS section for preservation.
3. Do not test pH for preserved BNA and TOTSULFIDE samples.
4. Deliver all MICRO samples ASAP to appropriate section for immediate processing.
5. Enter " Time Span" for composite samples during sample login.
6. Create SDG No. and update LOCATOR information during LIMS login.

SM Signature: Alex Bay

Date / Time Completed: MAY 27 '25 13:39

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HYDROGEN SULFIDE GAS AT MANHOLE R10-52

Instrument #	Serial #	Calibration Date/Time
RKI Eagle 2	E2E656	4/28/25 @ 08:24
Sample Count	**Interval Time (sec)**	**Bump Test Date**
10083	60	5/6/2025 @ 07:31

H2S Readings

Date	Daily Max	Daily Average
5/14/2025	0.0	0.0000
5/15/2025	0.0	0.0000
5/16/2025	2.5	0.0111
5/17/2025	3.0	0.0389
5/18/2025	1.0	0.0021
5/19/2025	1.0	0.0035
5/20/2025	0.0	0.0000
5/21/2025	0.0	0.0000

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KING COUNTY SOLID WASTE DIVISION

LEACHATE HAULING REPORT

TANKER LOADS

MONTH: MAY

YEAR: 2025

	DUVALL						VASHON				HOBART		OTHER		
DATE	BRIGHT		C.H.		SPOK.		SPOK.		C.H.		C.H.		C.H.		REMARKS
LOAD	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	6000	7000	
1															
2															
3															
4															
5								2.00							
6								2.00							
7															
8								2.00							
9															
10															
11															
12								2.00							
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27															
28															
29															
30															
31															
TOTAL	0	14000.00	0	0.00	0	0.00	0	133000.00	0	0.00	0	0.00	0	0.00	

Certificate Of Completion

Envelope Id: 16CED9EB-E408-4972-94CF-405CED82890D
Status: Completed
Subject: Complete with Docusign: May 2025 CH SMR - Needs signature TODAY
Source Envelope:
Document Pages: 81
Signatures: 3
Envelope Originator:
Certificate Pages: 4
Initials: 0
Terri Barker
AutoNav: Enabled
401 5TH AVE
EnvelopeId Stamping: Enabled
SEATTLE, WA 98104
Time Zone: (UTC-08:00) Pacific Time (US & Canada)
terri.barker@kingcounty.gov
IP Address: 198.49.222.20

Record Tracking

Status: Original
6/13/2025 8:25:05 AM
Holder: Terri Barker
terri.barker@kingcounty.gov
Location: DocuSign
Security Appliance Status: Connected
Pool: FedRamp
Storage Appliance Status: Connected
Pool: King County-Dept of Natural Resources-Solid Waste
Location: Docusign

Signer Events	Signature	Timestamp
Jennifer Keune jennifer.keune@kingcounty.gov Interim Supervisor KC_DNRP_SWD Security Level: Email, Account Authentication (None)	DocuSigned by:  A70EEC0AE02F44A... Signature Adoption: Pre-selected Style Using IP Address: 67.160.11.161	Sent: 6/13/2025 8:37:42 AM Viewed: 6/13/2025 2:53:04 PM Signed: 6/13/2025 2:56:28 PM

Electronic Record and Signature Disclosure:
Accepted: 3/31/2021 3:20:14 PM
ID: 040441cf-883c-43c6-a4af-1ccb2ef73edc

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	6/13/2025 8:37:42 AM
Certified Delivered	Security Checked	6/13/2025 2:53:04 PM
Signing Complete	Security Checked	6/13/2025 2:56:28 PM
Completed	Security Checked	6/13/2025 2:56:28 PM

Payment Events	Status	Timestamps

Electronic Record and Signature Disclosure

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If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact King County-ZZDepartmentTemplate 03:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: cipriano.dacanay@kingcounty.gov

To advise King County-ZZDepartmentTemplate 03 of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at cipriano.dacanay@kingcounty.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

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To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with King County-ZZDepartmentTemplate 03

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to cipriano.dacanay@kingcounty.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

By selecting the check-box next to 'I agree to use electronic records and signatures', you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify King County-ZZDepartmentTemplate 03 as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by King County-ZZDepartmentTemplate 03 during the course of your relationship with King County-ZZDepartmentTemplate 03.

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King County
Solid Waste Division
Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 6400
Seattle, WA 98104-3855
206-477-4466
711 TTY Relay
kingcounty.gov/solid-waste

July 15, 2025

TO: Arnaud Girard, Industrial Waste Compliance Investigator III, Wastewater Treatment Division

FM: Aaron Copado, Environmental Scientist III, King County Solid Waste Division (KCSWD)

DS AC

RE: Wastewater Discharge Permit # 7842-04 - Cedar Hills – Self-Monitoring Report

The purpose of this memorandum is to enclose the Self-Monitoring Report (SMR) for Cedar Hills (Permit # 7842-04) for the month of June 2025. Enclosed you will find:

- Industrial Waste Discharge Self-Monitoring Report for Sites A9002 & A90021
- Laboratory Test Results for CHLS-P (for samples collected 6/2/25, 6/4/25, 6/9/25, 6/11/25, 6/16/25, 6/18/25, 6/23/25, 6/25/25 and 6/30/25)
- Atmospheric Hydrogen Sulfide Data at A9002 (for 6/3-6/10)
- Leachate Hauling Report (for June)

The following exceedances occurred during the month of June:

Parameter	Date of Exceedance	Aware Date	Notification Date and Time
Arsenic Loading	6/02/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/04/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/09/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/11/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/23/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/25/25	7/14/25	7/14/25 @ 16:05
Arsenic Loading	6/30/25	7/14/25	7/14/25 @ 16:05

All other results met permit-specified limits.

Per KCIW guidance, details regarding June'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 (253) 400-6532, or by e-mail at acopado@kingcounty.gov.

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Enclosures

cc: Theresa Thurlow, P.E., Section Manager, King County Solid Waste Division (KCSWD)
Jennifer Keune, Supervisor, KCSWD
Dan Swope, Supervising Engineer, KCSWD
Grant Dornfeld, Engineer II, KCSWD

Printed on recycled paper

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** **June 2025** This form is available at www.kingcounty.gov/industrialwaste.

*** Sample Types (C) Composite (G) Grab (BC) Batch** **All conc. units are mg/L unless otherwise noted. Loading units are pounds per day (lbs./da**

Sample Date (circle)	Sample Type*	pH	Arsenic		Cadmium		Chromium		Copper		Lead		Daily Discharge Volume, gpd	Notes (Indicate Batch Discharge where applicable)
			Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading		
1													0	
2	C	8.59	0.0959	0.2771	<0.0005	0.0007	0.1160	0.3352	0.0081	0.0234	<0.001	0.00144	346500	
3													0	
4	C		0.0994	0.2903									350200	
5													0	
6													0	
7													0	
8													0	
9	C	8.38	0.1040	0.3131	<0.0005	0.0008	0.1260	0.3794	0.0076	0.0227	<0.001	0.00150	361000	
10													0	
11	C		0.1080	0.3270									363000	
12													0	
13													275200	
14													0	
15													0	
16	C	8.59	0.1100	0.2497	<0.0005	0.0006	0.1340	0.3042	0.0071	0.0162	<0.00099	0.00112	272200	
17													0	
18	C		0.1150	0.2590									270000	
19													0	
20													0	
21													273300	
22													288000	
23	C	8.53	0.1210	0.2717	<0.0005	0.0006	0.1470	0.3300	0.0072	0.0162	0.0012	0.00260	269200	
24													0	
25	C		0.1230	0.2833									276200	
26													273700	
27													0	
28													273000	
29													275000	
30	C	8.49	0.1340	0.3023	<0.0005	0.0006	0.1660	0.3745	0.0137	0.0309	0.0019	0.00424	270500	
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.

Jul 15, 2025
Date

Name and Signature of Principal Executive or Authorized Agent

Monthly Min pH	8.38	6/9/2025	Total Monthly Flow (gallons) 4,437,000
Monthly Max pH	8.59	6/2 and 6/16	Maximum Daily Flow 363,000 6/11/2025

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A90021 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** **June 2025** This form is available at www.kingcounty.gov/industrialwaste.

*** Sample Types (C) Composite (G) Grab (BC) Batcl** **All conc. units are mg/L unless otherwise noted. Loading units are pounds per day (lbs./da**

Sample Date (circle)	Sample Type	Mercury		Nickel		Silver		Zinc		Total Soluble Sulfides	Ammonia as N	Nitrite + Nitrate as N	Notes (Indicate Batch Discharge where applicable)
		Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading	Daily Average	Mass Loading				
1													
2	C	<0.0001	0.00014	0.1000	0.289	<0.0004	0.0006	0.1510	0.436	<0.1 ppm	718	<0.2	
3													
4													
5													
6													
7													
8													
9	C	<0.0001	0.00015	0.1040	0.313	<0.0004	0.0006	0.1470	0.443	<0.1 ppm			
10													
11													
12													
13													
14													
15													
16	C	<0.0001	0.00011	0.1140	0.259	<0.0004	0.0004	0.1600	0.363	<0.1 ppm			
17													
18													
19													
20													
21													
22													
23	C	<0.0001	0.00011	0.1210	0.272	<0.0004	0.0005	0.1800	0.404	<0.1 ppm			
24													
25													
26													
27													
28													
29													
30	C	<0.0001	0.00011	0.1330	0.300	<0.0004	0.0005	0.2970	0.670	<0.1 ppm			
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.

Jul 15, 2025

Date

Name and Signature of Principal Executive or Authorized Agent

A70EFC0AE03144A

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
Email: info.KCIW@kingcounty.gov

Atmospheric Hydrogen Sulfide (H_2S) Monitoring

Company Name: King County SWD - Cedar Hills Regional Landfill **Sample Site No.** A9002 **Permit No.:** *7842-04*

Please Specify Month & Year: **Month/Year** **June 2025**

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

All units are PPM unless otherwise noted.

Sample Date (circle)	Atmospheric Hydrogen Sulfide, ppmv				Notes
	Instantaneous Maximum	Maximum 15-min Average	Maximum 8-hr Average	7-day Average	
1					
2					
3	0	0	0	0	
4	2.5	1.033	0.035	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	1.5	0.1	0.003	0	
10	0	0	0	0.002	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Monthly **MAX**	2.5	Date	06/03/25-06/10/25		
Monthly **AVG**	0.5				

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.

Jul 15, 2025
Date

Name and Signature of Principal Executive or Authorized Agent

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Environmental Laboratory
LAB-NR0100
322 West Ewing Street
Seattle, WA 98119-1507
206-477-7200 Fax 206-684-2395
TTY Relay: 711

Susannah Rowles
Phone: 206.477.7158
Fax: 206.684.9123

King County Environmental Laboratory

June 30, 2025

Grant Dornfeld
King County Department of Natural Resources
Solid Waste Division
King Street Center
201 S. Jackson Street, Suite 701
Seattle, Washington 98104-3855

RE: Cedar Hills Leachate Permit (CHLS-P)

Sample Id.	Sample Collect Date	COC
LEPS250602P	6/2/2025	18852
LEPS250602D	6/2/2025	
LEPS250604P	6/4/2025	18872
LEPS250609P	6/9/2025	18875
LEPS250611P	6/11/2025	18879
LEPS250616P	6/16/2025	18890
LEPS250618P	6/18/2025	18868

Dear Grant Dornfeld,

Enclosed please find a laboratory data deliverables package for 7 leachate permit samples collected June 2 through 18, 2025.

Sample Receiving Comments
No sample receiving anomalies were observed.

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Conventionals QC Information

All calculable QC results for conventionals parameters were within laboratory control limits with the following exception.

During **Nitrate+Nitrite Nitrogen** analysis of samples LEPS250602P and LEPS250602D, the background color of the samples interfered with the determination of nitrate+nitrite nitrogen. Samples LEPS250602P and LEPS250602D were diluted to mitigate the color interference. At the reported dilutions, any nitrate+nitrite nitrogen that may have been present in samples LEPS250602P and LEPS250602D was diluted to less than the DL.

Metals QC Information

All calculable QC results for metals parameters were within laboratory control limits.

This package includes sample and laboratory Quality Control data, and copies of sample receipt and chain of custody records. Electronic Data Delivery (EDD) files have been separately transmitted.

Please let me know if you have any questions regarding this report.

Sincerely,



Susannah Rowles
Laboratory Project Manager/Water Quality Planner III
King County Environmental Laboratory
206.477.7158

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Sample Data

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/30/2025
Report Group: CHLS-P_061725

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

Client Sample ID: **LEPS250602P**
SDG / Lab Sample ID: **18852 / L86216-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/02/2025**
Login Date: **06/03/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250602D**
SDG / Lab Sample ID: **18852 / L86216-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/02/2025**
Login Date: **06/03/2025**
Matrix: **LEACHATE**

Analyses Requested:

4500-NO3-F NO23 Nitrite + Nitrate Nitrogen
6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals
Kerouel & Aminot 1997 NH3 Ammonia Nitrogen

Client Sample ID: **LEPS250618P**
SDG / Lab Sample ID: **18868 / L86306-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/18/2025**
Login Date: **06/20/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250604P**
SDG / Lab Sample ID: **18872 / L86217-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/04/2025**
Login Date: **06/05/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Client Sample ID: **LEPS250609P**
SDG / Lab Sample ID: **18875 / L86267-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/09/2025**
Login Date: **06/10/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals
6020B, SWD-ICPMS23, Metals
7470A, HG-CVAA-M, Metals

Client Sample ID: **LEPS250611P**
SDG / Lab Sample ID: **18879 / L86267-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**
Collect Date: **06/11/2025**
Login Date: **06/12/2025**
Matrix: **LEACHATE**

Analyses Requested:

6020B, AS-ICPMS, Metals

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Client Sample ID:	**LEPS250616P**	Collect Date:	**06/16/2025**
SDG / Lab Sample ID:	**18890 / L86306-1**	Login Date:	**06/17/2025**
Project Name:	**SWD-CHLS-P Cedar Hills Leachate Permit**	Matrix:	**LEACHATE**

Analyses Requested:

6020B, P-ICPMS, Metals

6020B, SWD-ICPMS23, Metals

7470A, HG-CVAA-M, Metals

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory

Client: King County Division of Solid Waste
Date Reported: 06/30/2025
Report Group: CHLS-P_061725

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

Client Sample ID: **LEPS250602P**
CoC / Lab Sample ID: **18852 / L86216-1**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **06/02/2025**
Login Date: **06/03/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	5000	mg/L	718		10	50		06/09/2025	06/09/2025	WG200790
Nitrate + Nitrite as N	20	mg/L	<.2	U	.2	.8		06/09/2025	06/09/2025	WG200790

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.509		.05	.05		06/04/2025	06/06/2025	WG200688
Antimony, Total	10	mg/L	.012		.003	.003		06/04/2025	06/06/2025	WG200688
Arsenic, Total	10	mg/L	.0944		.0005	.0005	1	06/04/2025	06/06/2025	WG200688
Barium, Total	10	mg/L	.0566		.005	.005		06/04/2025	06/06/2025	WG200688
Beryllium, Total	10	mg/L	<.001	U	.001	.001		06/04/2025	06/06/2025	WG200688
Cadmium, Total	10	mg/L	<.0005	U	.0005	.0005	0.5	06/04/2025	06/06/2025	WG200688
Calcium, Total	10	mg/L	58		.5	.5		06/04/2025	06/06/2025	WG200688
Chromium, Total	10	mg/L	.116		.002	.002	2.75	06/04/2025	06/06/2025	WG200688
Cobalt, Total	10	mg/L	.0243		.0005	.0005		06/04/2025	06/06/2025	WG200688
Copper, Total	10	mg/L	.00704		.002	.002	3	06/04/2025	06/06/2025	WG200688
Iron, Total	10	mg/L	7.1		.1	.1		06/04/2025	06/06/2025	WG200688
Lead, Total	10	mg/L	<.001	U	.001	.001	2	06/04/2025	06/06/2025	WG200688
Magnesium, Total	10	mg/L	57.6		.5	.5		06/04/2025	06/06/2025	WG200688
Manganese, Total	10	mg/L	.253		.001	.001		06/04/2025	06/06/2025	WG200688
Nickel, Total	10	mg/L	.0995		.001	.001	2.5	06/04/2025	06/06/2025	WG200688
Phosphorus, Total	10	mg/L	5.23		1	1		06/04/2025	06/06/2025	WG200688
Potassium, Total	10	mg/L	357		1	1		06/04/2025	06/06/2025	WG200688
Selenium, Total	10	mg/L	<.005	U	.005	.005		06/04/2025	06/06/2025	WG200688
Silver, Total	10	mg/L	<.0004	U	.0004	.0004	1	06/04/2025	06/06/2025	WG200688
Sodium, Total	10	mg/L	970		1	1		06/04/2025	06/06/2025	WG200688
Thallium, Total	10	mg/L	<.00075	U	.00075	.00075		06/04/2025	06/06/2025	WG200688
Tin, Total	10	mg/L	.00921		.005	.005		06/04/2025	06/06/2025	WG200688
Vanadium, Total	10	mg/L	.0329		.00075	.00075		06/04/2025	06/06/2025	WG200688
Zinc, Total	10	mg/L	.148		.005	.005	5	06/04/2025	06/06/2025	WG200688
Mercury, Total	2	mg/L	<.0001	U	.0001	.0001		06/05/2025	06/06/2025	WG200732

Client Sample ID: **LEPS250602D**
CoC / Lab Sample ID: **18852 / L86216-2**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit**

Collect Date: **06/02/2025**
Login Date: **06/03/2025**
Matrix: **LEACHATE**

Conventionals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Ammonia	5000	mg/L	783		10	50		06/09/2025	06/09/2025	WG200790
Nitrate + Nitrite as N	10	mg/L	<.1	U	.1	.4		06/09/2025	06/09/2025	WG200790

Metals

Constituent	D.F.	Unit	Results	Q	MDL	RDL	Reg Limit	Prep Date	Run Date	Run
Aluminum, Total	10	mg/L	.482		.0503	.0503		06/04/2025	06/06/2025	WG200688
Antimony, Total	10	mg/L	.011		.00302	.00302		06/04/2025	06/06/2025	WG200688

Client Sample ID: **LEPS250602D** — Collect Date: **06/02/2025**
CoC / Lab Sample ID: **18852 / L86216-2** — Login Date: **06/03/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** — Matrix: **LEACHATE**

Arsenic, Total	**10**	**mg/L**	**.0959**		**.000503**	**.000503**	**1**	**06/04/2025**	**06/06/2025**	**WG200688**
Barium, Total	**10**	**mg/L**	**.0567**		**.00503**	**.00503**		**06/04/2025**	**06/06/2025**	**WG200688**
Beryllium, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**		**06/04/2025**	**06/06/2025**	**WG200688**
Cadmium, Total	**10**	**mg/L**	**<.000503**	**U**	**.000503**	**.000503**	**0.5**	**06/04/2025**	**06/06/2025**	**WG200688**
Calcium, Total	**10**	**mg/L**	**59.5**		**.503**	**.503**		**06/04/2025**	**06/06/2025**	**WG200688**
Chromium, Total	**10**	**mg/L**	**.115**		**.00201**	**.00201**	**2.75**	**06/04/2025**	**06/06/2025**	**WG200688**
Cobalt, Total	**10**	**mg/L**	**.0242**		**.000503**	**.000503**		**06/04/2025**	**06/06/2025**	**WG200688**
Copper, Total	**10**	**mg/L**	**.00811**		**.00201**	**.00201**	**3**	**06/04/2025**	**06/06/2025**	**WG200688**
Iron, Total	**10**	**mg/L**	**7.17**		**.101**	**.101**		**06/04/2025**	**06/06/2025**	**WG200688**
Lead, Total	**10**	**mg/L**	**<.00101**	**U**	**.00101**	**.00101**	**2**	**06/04/2025**	**06/06/2025**	**WG200688**
Magnesium, Total	**10**	**mg/L**	**56.9**		**.503**	**.503**		**06/04/2025**	**06/06/2025**	**WG200688**
Manganese, Total	**10**	**mg/L**	**.251**		**.00101**	**.00101**		**06/04/2025**	**06/06/2025**	**WG200688**
Nickel, Total	**10**	**mg/L**	**.1**		**.00101**	**.00101**	**2.5**	**06/04/2025**	**06/06/2025**	**WG200688**
Phosphorus, Total	**10**	**mg/L**	**5.05**		**1.01**	**1.01**		**06/04/2025**	**06/06/2025**	**WG200688**
Potassium, Total	**10**	**mg/L**	**370**		**1.01**	**1.01**		**06/04/2025**	**06/06/2025**	**WG200688**
Selenium, Total	**10**	**mg/L**	**<.00503**	**U**	**.00503**	**.00503**		**06/04/2025**	**06/06/2025**	**WG200688**
Silver, Total	**10**	**mg/L**	**<.000403**	**U**	**.000403**	**.000403**	**1**	**06/04/2025**	**06/06/2025**	**WG200688**
Sodium, Total	**10**	**mg/L**	**969**		**1.01**	**1.01**		**06/04/2025**	**06/06/2025**	**WG200688**
Thallium, Total	**10**	**mg/L**	**<.000755**	**U**	**.000755**	**.000755**		**06/04/2025**	**06/06/2025**	**WG200688**
Tin, Total	**10**	**mg/L**	**.00841**		**.00503**	**.00503**		**06/04/2025**	**06/06/2025**	**WG200688**
Vanadium, Total	**10**	**mg/L**	**.0328**		**.000755**	**.000755**		**06/04/2025**	**06/06/2025**	**WG200688**
Zinc, Total	**10**	**mg/L**	**.151**		**.00503**	**.00503**	**5**	**06/04/2025**	**06/06/2025**	**WG200688**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**06/05/2025**	**06/06/2025**	**WG200732**

Client Sample ID: **LEPS250618P** — Collect Date: **06/18/2025**
CoC / Lab Sample ID: **18868 / L86306-2** — Login Date: **06/20/2025**
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
Arsenic, Total	**11**	**mg/L**	**.115**		**.000527**	**.000527**	**1**	**06/23/2025**	**06/24/2025**	**WG200987**

Client Sample ID: **LEPS250604P** — Collect Date: **06/04/2025**
CoC / Lab Sample ID: **18872 / L86217-1** — Login Date: **06/05/2025**
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
Arsenic, Total	**10**	**mg/L**	**.0994**		**.0005**	**.0005**	**1**	**06/09/2025**	**06/09/2025**	**WG200777**

Client Sample ID: **LEPS250609P** — Collect Date: **06/09/2025**
CoC / Lab Sample ID: **18875 / L86267-1** — Login Date: **06/10/2025**
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**	**.55**		**.0499**	**.0499**		**06/11/2025**	**06/12/2025**	**WG200819**
Antimony, Total	**10**	**mg/L**	**.0128**		**.00299**	**.00299**		**06/11/2025**	**06/12/2025**	**WG200819**
Arsenic, Total	**10**	**mg/L**	**.104**		**.000499**	**.000499**	**1**	**06/11/2025**	**06/12/2025**	**WG200819**
Barium, Total	**10**	**mg/L**	**.0522**		**.00499**	**.00499**		**06/11/2025**	**06/12/2025**	**WG200819**
Beryllium, Total	**10**	**mg/L**	**<.000998**	**U**	**.000998**	**.000998**		**06/11/2025**	**06/12/2025**	**WG200819**
Cadmium, Total	**10**	**mg/L**	**<.000499**	**U**	**.000499**	**.000499**	**0.5**	**06/11/2025**	**06/12/2025**	**WG200819**
Calcium, Total	**10**	**mg/L**	**52.7**		**.499**	**.499**		**06/11/2025**	**06/12/2025**	**WG200819**
Chromium, Total	**10**	**mg/L**	**.126**		**.002**	**.002**	**2.75**	**06/11/2025**	**06/12/2025**	**WG200819**

Client Sample ID: **LEPS250609P** Collect Date: **06/09/2025**
CoC / Lab Sample ID: **18875 / L86267-1** Login Date: **06/10/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Cobalt, Total	**10**	**mg/L**	**.0256**		**.000499**	**.000499**		**06/11/2025**	**06/12/2025**	**WG200819**
Copper, Total	**10**	**mg/L**	**.00755**		**.002**	**.002**	**3**	**06/11/2025**	**06/12/2025**	**WG200819**
Iron, Total	**10**	**mg/L**	**7.29**		**.0998**	**.0998**		**06/11/2025**	**06/12/2025**	**WG200819**
Lead, Total	**10**	**mg/L**	**<.000998**	**U**	**.000998**	**.000998**	**2**	**06/11/2025**	**06/12/2025**	**WG200819**
Magnesium, Total	**10**	**mg/L**	**64.4**		**.499**	**.499**		**06/11/2025**	**06/12/2025**	**WG200819**
Manganese, Total	**10**	**mg/L**	**.223**		**.000998**	**.000998**		**06/11/2025**	**06/12/2025**	**WG200819**
Nickel, Total	**10**	**mg/L**	**.104**		**.000998**	**.000998**	**2.5**	**06/11/2025**	**06/12/2025**	**WG200819**
Phosphorus, Total	**10**	**mg/L**	**5.66**		**.998**	**.998**		**06/11/2025**	**06/12/2025**	**WG200819**
Potassium, Total	**10**	**mg/L**	**396**		**.998**	**.998**		**06/11/2025**	**06/12/2025**	**WG200819**
Selenium, Total	**10**	**mg/L**	**<.00499**	**U**	**.00499**	**.00499**		**06/11/2025**	**06/12/2025**	**WG200819**
Silver, Total	**10**	**mg/L**	**<.000399**	**U**	**.000399**	**.000399**	**1**	**06/11/2025**	**06/12/2025**	**WG200819**
Sodium, Total	**10**	**mg/L**	**1090**		**.998**	**.998**		**06/11/2025**	**06/12/2025**	**WG200819**
Thallium, Total	**10**	**mg/L**	**<.000748**	**DU**	**.000748**	**.000748**		**06/11/2025**	**06/16/2025**	**WG200819**
Tin, Total	**10**	**mg/L**	**.0106**		**.00499**	**.00499**		**06/11/2025**	**06/12/2025**	**WG200819**
Vanadium, Total	**10**	**mg/L**	**.0374**		**.000748**	**.000748**		**06/11/2025**	**06/12/2025**	**WG200819**
Zinc, Total	**10**	**mg/L**	**.147**		**.00499**	**.00499**	**5**	**06/11/2025**	**06/12/2025**	**WG200819**
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**06/13/2025**	**06/13/2025**	**WG200891**

Client Sample ID: **LEPS250611P** Collect Date: **06/11/2025**
CoC / Lab Sample ID: **18879 / L86267-2** Login Date: **06/12/2025**
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
Arsenic, Total	**10**	**mg/L**	**.108**		**.000497**	**.000497**	**1**	**06/16/2025**	**06/17/2025**	**WG200896**

Client Sample ID: **LEPS250616P** Collect Date: **06/16/2025**
CoC / Lab Sample ID: **18890 / L86306-1** Login Date: **06/17/2025**
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
Mercury, Total	**2**	**mg/L**	**<.0001**	**U**	**.0001**	**.0001**		**06/17/2025**	**06/17/2025**	**WG200933**
Aluminum, Total	**10**	**mg/L**	**.676**		**.0492**	**.0492**		**06/18/2025**	**06/20/2025**	**WG200937**
Antimony, Total	**10**	**mg/L**	**.0131**		**.00295**	**.00295**		**06/18/2025**	**06/20/2025**	**WG200937**
Arsenic, Total	**10**	**mg/L**	**.11**		**.000492**	**.000492**	**1**	**06/18/2025**	**06/20/2025**	**WG200937**
Barium, Total	**10**	**mg/L**	**.0531**		**.00492**	**.00492**		**06/18/2025**	**06/20/2025**	**WG200937**
Beryllium, Total	**10**	**mg/L**	**<.000985**	**U**	**.000985**	**.000985**		**06/18/2025**	**06/20/2025**	**WG200937**
Cadmium, Total	**10**	**mg/L**	**<.000492**	**U**	**.000492**	**.000492**	**0.5**	**06/18/2025**	**06/20/2025**	**WG200937**
Calcium, Total	**10**	**mg/L**	**47**		**.492**	**.492**		**06/18/2025**	**06/20/2025**	**WG200937**
Chromium, Total	**10**	**mg/L**	**.134**		**.00197**	**.00197**	**2.75**	**06/18/2025**	**06/20/2025**	**WG200937**
Cobalt, Total	**10**	**mg/L**	**.0282**		**.000492**	**.000492**		**06/18/2025**	**06/20/2025**	**WG200937**
Copper, Total	**10**	**mg/L**	**.00714**		**.00197**	**.00197**	**3**	**06/18/2025**	**06/20/2025**	**WG200937**
Iron, Total	**10**	**mg/L**	**6.85**		**.0985**	**.0985**		**06/18/2025**	**06/20/2025**	**WG200937**
Lead, Total	**10**	**mg/L**	**<.000985**	**U**	**.000985**	**.000985**	**2**	**06/18/2025**	**06/20/2025**	**WG200937**
Magnesium, Total	**10**	**mg/L**	**60.9**		**.492**	**.492**		**06/18/2025**	**06/20/2025**	**WG200937**
Manganese, Total	**10**	**mg/L**	**.227**		**.000985**	**.000985**		**06/18/2025**	**06/20/2025**	**WG200937**
Nickel, Total	**10**	**mg/L**	**.114**		**.000985**	**.000985**	**2.5**	**06/18/2025**	**06/20/2025**	**WG200937**
Phosphorus, Total	**10**	**mg/L**	**6.94**		**.985**	**.985**		**06/18/2025**	**06/20/2025**	**WG200937**
Potassium, Total	**10**	**mg/L**	**417**		**.985**	**.985**		**06/18/2025**	**06/20/2025**	**WG200937**
Selenium, Total	**10**	**mg/L**	**<.00492**	**U**	**.00492**	**.00492**		**06/18/2025**	**06/20/2025**	**WG200937**
Silver, Total	**10**	**mg/L**	**<.000394**	**U**	**.000394**	**.000394**	**1**	**06/18/2025**	**06/20/2025**	**WG200937**
Sodium, Total	**10**	**mg/L**	**1140**		**.985**	**.985**		**06/18/2025**	**06/20/2025**	**WG200937**
Thallium, Total	**10**	**mg/L**	**<.000739**	**U**	**.000739**	**.000739**		**06/18/2025**	**06/20/2025**	**WG200937**

Client Sample ID: **LEPS250616P** Collect Date: **06/16/2025**
CoC / Lab Sample ID: **18890 / L86306-1** Login Date: **06/17/2025**
Project Name: **SWD-CHLS-P Cedar Hills Leachate Permit** Matrix: **LEACHATE**

Tin, Total	**10**	**mg/L**	**.00852**	**D**	**.00492**	**.00492**		**06/18/2025**	**06/20/2025**	**WG200937**
Vanadium, Total	**10**	**mg/L**	**.0387**		**.000739**	**.000739**		**06/18/2025**	**06/20/2025**	**WG200937**
Zinc, Total	**10**	**mg/L**	**.16**		**.00492**	**.00492**	**5**	**06/18/2025**	**06/20/2025**	**WG200937**

Target Parameter Count for Report Group: 107

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Quality Control Data

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200790 Dissolved Nutrients

MB:WG200790-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Ammonia Nitrogen	0.002	0.01	mg/L		U

MB:WG200790-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L		U

SB:WG200790-3 MB:WG200790-1 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	U	0.04	0.0411	103		80--120

SB:WG200790-3 MB:WG200790-1 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	U	1	1.01	101		80--120

LCS:WG200790-4 Matrix: BLANK WTR Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	0.002	0.01	mg/L	0.05	0.0543	109		85--115

LCS:WG200790-4 Matrix: BLANK WTR Listtype:CVNO23 Method:SM4500-NO3-F Project: Pkey:STD
(Lab Control Sample)

Parameter	MDL	RDL	Units	True Value	LCS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.01	0.04	mg/L	1	0.989	99		85--115

LD:WG200790-5 L86212-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M_MOD Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Ammonia Nitrogen	10	50	mg/L	367	376	2		0--20

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King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

LD:WG200790-5 L86212-4 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M_MOD Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	0.311	0.321	3		0--20

MS:WG200790-6 L86212-4 Matrix: LEACHATE Listtype:CVNH3-FL Method:KEROUEL & AMINOT 1997 Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Ammonia Nitrogen	10	50	mg/L	367	0.04	570	101		75--125

MS:WG200790-6 L86212-4 Matrix: LEACHATE Listtype:CVNO23 Method:SM4500-NO3-F Project:421422-CHLS-M_MOD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit
Nitrite + Nitrate Nitrogen	0.05	0.2	mg/L	0.311	1	4.95	93		75--125

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King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200688 Total Metals by ICPMS

MB:WG200688-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.038	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.038	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

SB:WG200688-2 MB:WG200688-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	19.7	99		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5260	105		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5000	100		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	184	92		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	4950	99		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5090	102		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4850	97		85--115
Vanadium, Total	0.038	0.075	ug/L	<QL	20	20.5	102		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.4	107		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115
Iron, Total	5	10	ug/L	<QL	5000	5190	104		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.7	108		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22	110		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.2	111		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.5	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.7	99		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	19.9	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.8	104		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.5	103		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	19.9	100		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.1	101		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	21.1	106		85--115
Thallium, Total	0.038	0.075	ug/L	<QL	20	22.1	110		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	22.2	111		85--115

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King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

MSD:WG200688-4 MS:WG200688-3 L86216-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.978	0.978	ug/L	<QL	196	192	98		75--125	200	203	101		5		0--20
Sodium, Total	978	978	ug/L	970000	48900	1020000		4xRule	75--125	50000	983000		4xRule	4		0--20
Magnesium, Total	489	489	ug/L	57600	48900	103000	93		75--125	50000	105000	94		2		0--20
Aluminum, Total	48.9	48.9	ug/L	509	1960	2380	95		75--125	2000	2580	104		8		0--20
Phosphorus, Total	978	978	ug/L	5230	48900	53800	99		75--125	50000	54700	99		2		0--20
Potassium, Total	978	978	ug/L	357000	48900	408000		4xRule	75--125	50000	413000		4xRule	1		0--20
Calcium, Total	489	489	ug/L	58000	48900	107000	99		75--125	50000	109000	101		2		0--20
Vanadium, Total	0.733	0.733	ug/L	32.9	196	225	98		75--125	200	232	100		3		0--20
Chromium, Total	1.96	1.96	ug/L	116	196	313	101		75--125	200	323	103		3		0--20
Manganese, Total	0.978	0.978	ug/L	253	196	449	100		75--125	200	462	104		3		0--20
Iron, Total	97.8	97.8	ug/L	7100	48900	55400	99		75--125	50000	57500	101		4		0--20
Cobalt, Total	0.489	0.489	ug/L	24.3	196	231	106		75--125	200	244	110		5		0--20
Nickel, Total	0.978	0.978	ug/L	99.5	196	303	104		75--125	200	311	106		3		0--20
Copper, Total	1.96	1.96	ug/L	7.04	196	208	103		75--125	200	221	107		6		0--20
Zinc, Total	4.89	4.89	ug/L	148	196	354	105		75--125	200	359	106		2		0--20
Arsenic, Total	0.489	0.489	ug/L	94.4	196	295	102		75--125	200	303	104		3		0--20
Selenium, Total	4.89	4.89	ug/L	<QL	196	203	104		75--125	200	212	106		4		0--20
Silver, Total	0.391	0.391	ug/L	<QL	196	182	93		75--125	200	196	98		7		0--20
Cadmium, Total	0.489	0.489	ug/L	<QL	196	189	97		75--125	200	203	101		7		0--20
Tin, Total	4.89	4.89	ug/L	9.21	196	180	87		75--125	200	189	90		5		0--20
Antimony, Total	2.93	2.93	ug/L	12	196	213	103		75--125	200	221	105		4		0--20
Barium, Total	4.89	4.89	ug/L	56.6	196	270	109		75--125	200	276	110		2		0--20
Thallium, Total	0.733	0.733	ug/L	<QL	196	202	103		75--125	200	200	100		1		0--20
Lead, Total	0.978	0.978	ug/L	<QL	196	205	105		75--125	200	208	104		1		0--20

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King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200732 Total & Dissolved Mercury by CVAA

MB:WG200732-1 Matrix: BLANK WTR Listtype:MTHG-MID-DISS-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Dissolved	0.025	0.05	ug/L		<QL

MB:WG200732-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200732-2 MB:WG200732-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.959	96		85--115

MSD:WG200732-4 MS:WG200732-3 L86215-3 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-M Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	2.03	101		75--125	2	2.01	100		1		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200777 Total Metals by ICPMS

MB:WG200777-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG200777-2 MB:WG200777-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115

MSD:WG200777-4 MS:WG200777-3 L86217-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.489	0.489	ug/L	99.4	196	301	103		75--125	193	297	102		1		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200819 Total Metals by ICPMS

MB:WG200819-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.038	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.038	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

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King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

SB:WG200819-2 MB:WG200819-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.1	101		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5430	109		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5330	107		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	208	104		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5060	101		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5270	105		85--115
Calcium, Total	25	50	ug/L	<QL	5000	4930	99		85--115
Vanadium, Total	0.038	0.075	ug/L	<QL	20	20.8	104		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.2	106		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	20.6	103		85--115
Iron, Total	5	10	ug/L	<QL	5000	5280	106		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.4	107		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	21.7	109		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.8	109		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	21.4	107		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.5	103		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.7	103		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.4	102		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.8	104		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	20.5	103		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	20.6	103		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.9	104		85--115
Thallium, Total	0.038	0.075	ug/L	<QL	20	21.5	108		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	21.5	108		85--115

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

MSD:WG200819-4 MS:WG200819-3 L86267-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	1	1	ug/L	<QL	201	207	103		75--125	198	209	106		1		0--20
Sodium, Total	1000	1000	ug/L	1090000	50200	1120000		4xRule	75--125	49500	1100000		4xRule	2		0--20
Magnesium, Total	502	502	ug/L	64400	50200	116000	102		75--125	49500	116000	104		0		0--20
Aluminum, Total	50.2	50.2	ug/L	550	2010	2770	111		75--125	1980	2680	108		3		0--20
Phosphorus, Total	1000	1000	ug/L	5660	50200	58200	105		75--125	49500	57900	106		0		0--20
Potassium, Total	1000	1000	ug/L	396000	50200	446000		4xRule	75--125	49500	447000		4xRule	0		0--20
Calcium, Total	502	502	ug/L	52700	50200	103000	101		75--125	49500	104000	103		0		0--20
Vanadium, Total	0.753	0.753	ug/L	37.4	201	250	106		75--125	198	249	107		0		0--20
Chromium, Total	2.01	2.01	ug/L	126	201	340	107		75--125	198	338	107		0		0--20
Manganese, Total	1	1	ug/L	223	201	430	103		75--125	198	432	106		0		0--20
Iron, Total	100	100	ug/L	7290	50200	60300	106		75--125	49500	59600	106		1		0--20
Cobalt, Total	0.502	0.502	ug/L	25.6	201	239	106		75--125	198	238	107		1		0--20
Nickel, Total	1	1	ug/L	104	201	316	105		75--125	198	314	106		1		0--20
Copper, Total	2.01	2.01	ug/L	7.55	201	223	107		75--125	198	220	107		1		0--20
Zinc, Total	5.02	5.02	ug/L	147	201	361	107		75--125	198	364	110		1		0--20
Arsenic, Total	0.502	0.502	ug/L	104	201	317	106		75--125	198	317	108		0		0--20
Selenium, Total	5.02	5.02	ug/L	<QL	201	214	107		75--125	198	214	108		0		0--20
Silver, Total	0.402	0.402	ug/L	<QL	201	200	100		75--125	198	198	100		1		0--20
Cadmium, Total	0.502	0.502	ug/L	<QL	201	211	105		75--125	198	210	106		1		0--20
Tin, Total	5.02	5.02	ug/L	10.6	201	223	105		75--125	198	218	105		2		0--20
Antimony, Total	3.01	3.01	ug/L	12.8	201	224	105		75--125	198	226	108		1		0--20
Barium, Total	5.02	5.02	ug/L	52.2	201	268	107		75--125	198	268	109		0		0--20
Thallium, Total	0.753	0.753	ug/L	<QL	201	225	112		75--125	198	211	106		7		0--20
Lead, Total	1	1	ug/L	<QL	201	213	106		75--125	198	212	107		1		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200891 Total Mercury by CVAA

MB:WG200891-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200891-2 MB:WG200891-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	1.04	104		85--115

MSD:WG200891-4 MS:WG200891-3 L86267-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.8	90		75--125	2	1.82	91		2		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200896 Total Metals by ICPMS

MB:WG200896-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Chromium, Total	0.1	0.2	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

SB:WG200896-2 MB:WG200896-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Chromium, Total	0.1	0.2	ug/L	<QL	20	20.9	105		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	20.7	103		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	21.5	107		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	20.8	104		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.1	100		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.3	101		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.2	101		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	20.2	101		85--115

MSD:WG200896-4 MS:WG200896-3 L86076-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-HTLS Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Chromium, Total	1.97	1.97	ug/L	27	197	235	105		75--125	194	232	106		1		0--20
Nickel, Total	0.986	0.986	ug/L	24.8	197	231	104		75--125	194	228	104		1		0--20
Copper, Total	1.97	1.97	ug/L	73.4	197	282	106		75--125	194	282	107		0		0--20
Zinc, Total	4.93	4.93	ug/L	403	197	581	90		75--125	194	579	91		0		0--20
Arsenic, Total	0.493	0.493	ug/L	5.08	197	204	101		75--125	194	202	101		1		0--20
Silver, Total	0.395	0.395	ug/L	<QL	197	202	102		75--125	194	198	102		2		0--20
Cadmium, Total	0.493	0.493	ug/L	<QL	197	202	102		75--125	194	198	102		2		0--20
Lead, Total	0.986	0.986	ug/L	5.92	197	208	102		75--125	194	200	100		4		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200933 Total Mercury by CVAA

MB:WG200933-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Mercury, Total	0.025	0.05	ug/L		<QL

SB:WG200933-2 MB:WG200933-1 Matrix: BLANK WTR Listtype:MTHG-MID-QL Method:SW846 7470A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Mercury, Total	0.025	0.05	ug/L	<QL	1	0.993	99		85--115

MSD:WG200933-4 MS:WG200933-3 L86306-1 Matrix: LEACHATE Listtype:MTHG-MID-QL Method:SW846 7470A Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Mercury, Total	0.1	0.1	ug/L	<QL	2	1.72	86		75--125	2	1.69	84		2		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200937 Total Metals by ICPMS

MB:WG200937-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total	0.05	0.1	ug/L		<QL
Sodium, Total	50	100	ug/L		<QL
Magnesium, Total	25	50	ug/L		<QL
Aluminum, Total	2.5	5	ug/L		<QL
Phosphorus, Total	50	100	ug/L		<QL
Potassium, Total	50	100	ug/L		<QL
Calcium, Total	25	50	ug/L		<QL
Vanadium, Total	0.038	0.075	ug/L		<QL
Chromium, Total	0.1	0.2	ug/L		<QL
Manganese, Total	0.05	0.1	ug/L		<QL
Iron, Total	5	10	ug/L		<QL
Cobalt, Total	0.025	0.05	ug/L		<QL
Nickel, Total	0.05	0.1	ug/L		<QL
Copper, Total	0.1	0.2	ug/L		<QL
Zinc, Total	0.25	0.5	ug/L		<QL
Arsenic, Total	0.025	0.05	ug/L		<QL
Selenium, Total	0.25	0.5	ug/L		<QL
Silver, Total	0.02	0.04	ug/L		<QL
Cadmium, Total	0.025	0.05	ug/L		<QL
Tin, Total	0.25	0.5	ug/L		<QL
Antimony, Total	0.15	0.3	ug/L		<QL
Barium, Total	0.25	0.5	ug/L		<QL
Thallium, Total	0.038	0.075	ug/L		<QL
Lead, Total	0.05	0.1	ug/L		<QL

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

SB:WG200937-2 MB:WG200937-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Beryllium, Total	0.05	0.1	ug/L	<QL	20	20.2	101		85--115
Sodium, Total	50	100	ug/L	<QL	5000	5410	108		85--115
Magnesium, Total	25	50	ug/L	<QL	5000	5150	103		85--115
Aluminum, Total	2.5	5	ug/L	<QL	200	203	102		85--115
Phosphorus, Total	50	100	ug/L	<QL	5000	5090	102		85--115
Potassium, Total	50	100	ug/L	<QL	5000	5140	103		85--115
Calcium, Total	25	50	ug/L	<QL	5000	5090	102		85--115
Vanadium, Total	0.038	0.075	ug/L	<QL	20	21.2	106		85--115
Chromium, Total	0.1	0.2	ug/L	<QL	20	21.8	109		85--115
Manganese, Total	0.05	0.1	ug/L	<QL	20	21.2	106		85--115
Iron, Total	5	10	ug/L	<QL	5000	5350	107		85--115
Cobalt, Total	0.025	0.05	ug/L	<QL	20	21.8	109		85--115
Nickel, Total	0.05	0.1	ug/L	<QL	20	22.3	111		85--115
Copper, Total	0.1	0.2	ug/L	<QL	20	22.7	114		85--115
Zinc, Total	0.25	0.5	ug/L	<QL	20	22.1	111		85--115
Arsenic, Total	0.025	0.05	ug/L	<QL	20	20.6	103		85--115
Selenium, Total	0.25	0.5	ug/L	<QL	20	20.3	102		85--115
Silver, Total	0.02	0.04	ug/L	<QL	20	20.4	102		85--115
Cadmium, Total	0.025	0.05	ug/L	<QL	20	20.4	102		85--115
Tin, Total	0.25	0.5	ug/L	<QL	20	22.7	113		85--115
Antimony, Total	0.15	0.3	ug/L	<QL	20	19.3	97		85--115
Barium, Total	0.25	0.5	ug/L	<QL	20	20.9	105		85--115
Thallium, Total	0.038	0.075	ug/L	<QL	20	20	100		85--115
Lead, Total	0.05	0.1	ug/L	<QL	20	19.5	98		85--115

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

MSD:WG200937-4 MS:WG200937-3 L86306-1 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Beryllium, Total	0.987	0.987	ug/L	<QL	197	195	99		75--125	197	195	99		0		0--20
Sodium, Total	987	987	ug/L	1140000	49400	1180000		4xRule	75--125	49200	1160000		4xRule	1		0--20
Magnesium, Total	494	494	ug/L	60900	49400	114000	108		75--125	49200	113000	105		1		0--20
Aluminum, Total	49.4	49.4	ug/L	676	1970	2540	95		75--125	1970	2680	102		5		0--20
Phosphorus, Total	987	987	ug/L	6940	49400	55900	99		75--125	49200	55500	99		1		0--20
Potassium, Total	987	987	ug/L	417000	49400	467000		4xRule	75--125	49200	462000		4xRule	1		0--20
Calcium, Total	494	494	ug/L	47000	49400	95500	98		75--125	49200	95000	98		0		0--20
Vanadium, Total	0.74	0.74	ug/L	38.7	197	239	101		75--125	197	237	101		1		0--20
Chromium, Total	1.97	1.97	ug/L	134	197	332	101		75--125	197	329	99		1		0--20
Manganese, Total	0.987	0.987	ug/L	227	197	421	98		75--125	197	417	96		1		0--20
Iron, Total	98.7	98.7	ug/L	6850	49400	56400	100		75--125	49200	55700	99		1		0--20
Cobalt, Total	0.494	0.494	ug/L	28.2	197	236	105		75--125	197	237	106		1		0--20
Nickel, Total	0.987	0.987	ug/L	114	197	320	104		75--125	197	327	108		2		0--20
Copper, Total	1.97	1.97	ug/L	7.14	197	219	107		75--125	197	221	109		1		0--20
Zinc, Total	4.94	4.94	ug/L	160	197	366	104		75--125	197	370	107		1		0--20
Arsenic, Total	0.494	0.494	ug/L	110	197	310	101		75--125	197	313	103		1		0--20
Selenium, Total	4.94	4.94	ug/L	<QL	197	199	101		75--125	197	200	102		1		0--20
Silver, Total	0.395	0.395	ug/L	<QL	197	187	95		75--125	197	187	95		0		0--20
Cadmium, Total	0.494	0.494	ug/L	<QL	197	191	97		75--125	197	191	97		0		0--20
Tin, Total	4.94	4.94	ug/L	8.52	197	163	78		75--125	197	156	75		4		0--20
Antimony, Total	2.96	2.96	ug/L	13.1	197	206	98		75--125	197	208	99		1		0--20
Barium, Total	4.94	4.94	ug/L	53.1	197	260	105		75--125	197	266	108		2		0--20
Thallium, Total	0.74	0.74	ug/L	<QL	197	200	101		75--125	197	199	101		0		0--20
Lead, Total	0.987	0.987	ug/L	<QL	197	183	93		75--125	197	185	94		1		0--20

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

King County Environmental Laboratory QC Report

CHLS-P_061725 COC 18852, 18868, 18872, 18875, 18879, 18890

Workgroup: WG200987 Total Metals by ICPMS

MB:WG200987-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total	0.025	0.05	ug/L		<QL

SB:WG200987-2 MB:WG200987-1 Matrix: BLANK WTR Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	True Value	SB Value	% Rec.	Qual	Lab Limit
Arsenic, Total	0.025	0.05	ug/L	<QL	20	19.7	99		85--115

MSD:WG200987-4 MS:WG200987-3 L86306-2 Matrix: LEACHATE Listtype:MTICPMS-QL Method:EPA 200.8 (MOD)*SW846 6020B Project:421422-CHLS-P Pkey:STD
(Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	True Value	MS Value	% Rec.	Qual	Lab Limit	True Value	MSD Value	% Rec.	Qual	RPD	Qual	Lab Limit
Arsenic, Total	0.502	0.502	ug/L	115	201	313	99		75--125	199	311	99		1		0--20

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4xRule indicates no MS/MSD recovery was calculated due to the 4x rule.

Docusign Envelope ID: B4FE35D9-D9BE-4C1F-ACE8-C59B18A454A6

Sample Receipt and Chain of Custody Records

Chain of Custody Record

Environmental Monitoring Program

Date: 6/3/25

Department of Natural Resources and Parks
Solid Waste Division

No. **18852**

Name: King County Solid Waste Division
Address: 201 South Jackson Street, Suite 701
Seattle, WA 98104-3855
Attention: Grant Dornfeld (206) 263-3333
Authorization: KCEL Lab Services to KCSWD

Project Site Test: CHLS-P(25.1)

Project Site Test Reference

Lab No.	Sample ID	Date	Time
86216-1	LEPS250602P	6/2/25	1100
86216-2	LEPS250602D	6/2/25	1100

GROUNDWATER

2	2.1	4	38	5	6	7	8	9	10	12
CHGW Cedar Hills GW Qlty	CHGW Cedar Hills EPZ GW Qlty	CHGW/VAGW Appendix III GW	CHGW-OS Cedar Hills GW Offsite	CFGW Cedar Falls GW Qlty	DUGW Duvall GW Qlty	ENGW Enumclaw GW Qlty	HOGW Hobart GW Qlty	HTGW Houghton GW Qlty	PUGW Puyallup GW Qlty	VAGW Vashon GW Qlty

SURFACE WATER

14	16	42	49.1	17	18	21
CHSW-Q Cedar Hills SW Sta. E-1	CHSW-P Cedar Hills SW ISGP	CHSW-TD Cedar Hills SW Top Deck	CHSW-E CH Emergency	CFSW Cedar Falls SW Qlty	DUSW Duvall SW Qlty	VASW Vashon SW Qlty-WEIRS

TS

52	53	54	56	57	58
HTSW-P Houghton SW NPDES	SHSW-P Shoreline SW NPDES	FASW-P Factoria SW NPDES	ENSW-P Enumclaw SW NPDES	ALSW-P Algona SW NPDES	VASW-P Vashon SW NPDES

LEACHATE/WASTEWATER

24	23	23+	23.1	25	25.1	25.2	26	20	27	28	29	30	31	32	34
CHTW Cedar Hills Truckwash	CHLS-M Cedar Hills Leachate Mtly	CHLS-M_MOD CH Leachate Mods Mtly	CHLS-M_As CH Leachate As Semi-Ann.	CHLS-P CH L Permit (wkly, 1st)	CHLS-P CH L Permit (mnthly)	CHLS-P CH L Permit (wkly, 2nd)	ALLS Algona WW Permit	BLLS Bow Lake WW Permit	ENLS Enumclaw WW Permit	FALS Factoria WW Permit	SRLS Shoreline WW Permit	HTLS Houghton WW Permit	RELS Renton WW Permit	VALS-P Vashon WW Permit Tanker	VALS-Q Vashon Leachate Qlty

PERMIT

Lab No.	Number of Bottles	Remarks
86216-1	2	Diss. Sulfide? <0.1ppm
86216-2	2	NA

Relinquished By Sampler: Hannah Spear
Sampler Signature: H Spear
Date: 6/3/25
Time: 1145
Sampler Printed Name: KCSWD
Company:

Relinquished By:
Signature:
Printed Name:
Company:
Date: MS 6.3
Time:

Received By:
Signature:
Printed Name:
Company:
Date:
Time:

Received By: Jason Kinnard
Signature:
Printed Name: KCEL
Company:
Date: 6/3/25
Time: 1400

Observations/Comments/Special Instructions:
*Nutrients field filtered.
Custody sealed 6/3/25 @ 1145.

Total # of Bottles: 4

Instructions:
1. Complete in ballpoint pen. Draw one line through errors then initial and date.
2. Receiving lab is to sign in the shaded box.
3. Check off pre-printed Project Site Test Reference to be performed for each sample, or provide specific instruction if not listed.
4. Receiving lab is to retain the original and create a copy for KCSWD personnel to keep.

FFB - Field Filtration Blank
FQ - Field QC

v4.00 (Rev 12/2023)

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