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Central Disposal (95-SDP-01-72) 2026 Annual Monitoring Event Update

1 message

Anderson, Cory (Plymouth) <cory.anderson2@stantec.com>

Tue, Jul 14, 2026 at 12:13 PM

To: "Mike Smith (mike.smith@dnr.iowa.gov)" <mike.smith@dnr.iowa.gov>, Madelynn Austin <madelynn.austin@dnr.iowa.gov>, "Jeremy Klatt" <jeremy.klatt@dnr.iowa.gov>, Becky Jolly <becky.jolly@dnr.iowa.gov>

Cc: "Fletcher, George" <gfletch2@wm.com>, "Reynolds, John" <jreyno11@wm.com>, "Davis, Dennis" <ddavis16@wm.com>, Erin Bulson <ebulson@wm.com>, "McCain, Andrew" <amccain@wm.com>, "Field, Tyler" <tfield1@wm.com>, "Tiefengraber, Michaela" <mtiefeng@wm.com>, "Kaiser, Chris" <chris.kaiser@stantec.com>

Hi Mike, Madelynn, and Jeremy,

Below is a summary of the annual water quality monitoring event for Central Disposal (95-SDP-01-72) completed on April 1, April 29, and May 29, 2026 (2026 Annual Event). Background monitoring was also conducted this spring in accordance with the attached schedule. Additional detail will be provided in the 2026 Annual Water Quality Report (AWQR), which, will be submitted to the IDNR with the year end reports by January 31, 2027, as required by the 2023 HMSP.

General:

- With one exception, all monitoring locations and parameters were accounted for during the 2026 Annual Event in accordance with the monitoring schedule.
 - A water level measurement was not collected from monitoring well MW-101 because the well was damaged. It is scheduled for repair.
- In accordance with the 2023 HMSP monitoring schedule (see attached), samples collected during 2026 Annual Event were analyzed for the Selected Annual Parameters (Intrawell Statistical Detection Parameters and Supplemental Parameters), and IDNR Appendix I detection parameters in accordance with the once per 3 year schedule.
- Groundwater elevations were generally slightly lower than those observed during the 2025 Annual event.
- In accordance with the background monitoring schedule (see attached), background monitoring for new wells MW-134, MW-135, and MW-136 (7th background event), MW-11R (2nd background event) and new groundwater underdrain GU-VIII-1 (3rd background event) were completed on April 1, and April 29, 2026 concurrent with the 2026 Annual Event.

2026 Annual Event Preliminary Data Review:

- VOCs were not detected at any monitoring locations.
- Inorganic results remain generally consistent with historical results for individual well locations.
- Arsenic above MCL at locations and concentrations consistent with historical.
- Cobalt above IDNR Groundwater Performance Standard (GWPS) at MW-133, groundwater underdrain GU-VIII-1, and upgradient monitoring well MW-2A; concentrations were consistent with historical results for each location.
- Antimony was detected at 0.00944 mg/L in groundwater underdrain GU-V-2, above MCL of 0.006 mg/L.
 - Antimony has been detected in 6 of 17 samples collected from GU-V-2 to date, including prior detections above the MCL; the current concentration is only slightly higher than historical results and within range of prior detections, is not consistently detected in leachate, does not correlate with other leachate indicators, and does not appear indicative of leachate impacts.
- The statistical evaluation/report for the 2026 Annual event does not identify any verified intrawell control limit exceedances.
 - There is an unverified control limit exceedance for chloride at MW-123.

GU-VIII-1 Background Monitoring:

- Results from the April 2026 background monitoring event for GU-VIII-1 were previously provided to the IDNR with the attached email dated 5/26/26.

Monitoring Well Background Monitoring (MW-134, MW-135, MW-136, and MW-11R):

- No VOC detections.
- Current inorganic results generally consistent with historical data set.
- Planning to have sampling contractor do some well development for wells MW-134, MW-135, and MW-136 prior to the fall 2026 semi-annual background monitoring event in accordance with IDNR 2025 AWQR review letter.

Recommendations:

- Continue monitoring in accordance with the attached schedule.

Based on the preliminary review, results are generally consistent with historical conditions, with no verified intrawell control limit exceedances identified.

Please let us know if you have any questions.

Thanks. Have a good afternoon!

-Cory

Cory Anderson

Senior Associate, Environmental Scientist

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----- Forwarded message -----

From: "Anderson, Cory (Plymouth)" <cory.anderson2@stantec.com>
To: "'Mike Smith (mike.smith@dnr.iowa.gov)'" <mike.smith@dnr.iowa.gov>, Madelynn Austin <madelynn.austin@dnr.iowa.gov>, "Jeremy Klatt (jeremy.klatt@dnr.iowa.gov)" <jeremy.klatt@dnr.iowa.gov>, Becky Jolly <becky.jolly@dnr.iowa.gov>
Cc: "Fletcher, George" <gfletch2@wm.com>, "Reynolds, John" <jreyno11@wm.com>, "Davis, Dennis" <ddavis16@wm.com>, "amccain@wm.com" <amccain@wm.com>, "tfield1@wm.com" <tfield1@wm.com>, "Tiefengraber, Michaela" <mtiefeng@wm.com>, "Kaiser, Chris" <chris.kaiser@stantec.com>
Bcc:
Date: Tue, 26 May 2026 21:08:26 +0000
Subject: Central Disposal (95-SDP-01-72) - April 2026 GU-VIII-1 Background Results

Hi Mike,

Regarding Central Disposal 95-SDP-01-72: Attached are the laboratory results for the April 2026 groundwater underdrain GU-VIII-1 background monitoring event and a table summarizing the background monitoring results collected for GU-VIII-1 to date. Results from the April 2026 event are consistent with prior results for GU-VIII-1, and no VOCs have been detected to date. Cobalt is the only parameter that has exceeded the applicable water quality standard, in this case the IDNR GWPS. However, cobalt concentrations detected in GU-VIII-1 are comparable to those historically observed in upgradient monitoring wells, which suggests the cobalt is naturally occurring in the groundwater. Based on these findings, the background results collected for GU-VIII-1 to date do not indicate leachate impacts.

Please let us know if you have any questions.

Thanks. Have a good afternoon!

-Cory

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4 attachments



GU-VIII-1 Background Results Summary Tbl.pdf
76K



GU-VIII-1 Bkrnd Lab_4-29-26_L1969300.pdf
1980K



Central Disposal (95-SDP-01-72) - April 2026 GU-VIII-1 Background Results.eml
2833K



Mon Sched.pdf
105K

Subject: Central Disposal (95-SDP-01-72) - April 2026 GU-VIII-1 Backgrc



Anderson, Cory (Plymouth) <cory.anderson2@stantec.com>

to Mike Smith (mike.smith@dnr.iowa.gov), Madelynn Austin, jeremy.klatt@dnr.iowa.gov, Becky Jolly, Fletcher, George, Rey

Hi Mike,

Regarding Central Disposal 95-SDP-01-72: Attached are the laboratory results for the April 2026 groundwater u event and a table summarizing the background monitoring results collected for GU-VIII-1 to date. Results from the results for GU-VIII-1, and no VOCs have been detected to date. Cobalt is the only parameter that has exceeded th case the IDNR GWPS. However, cobalt concentrations detected in GU-VIII-1 are comparable to those historically which suggests the cobalt is naturally occurring in the groundwater. Based on these findings, the background resu indicate leachate impacts.

Please let us know if you have any questions.

Thanks. Have a good afternoon!

-Cory

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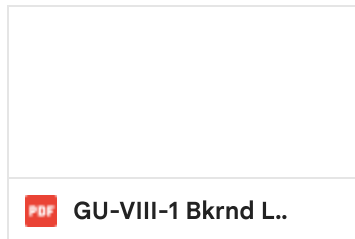
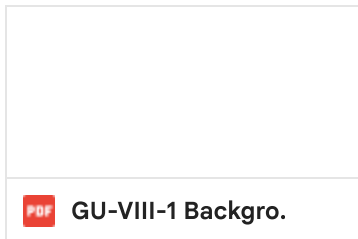
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2 Attachments • Scanned by Gmail



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GU-VIII-1 Background Monitoring Analytical Summary

Central Disposal Landfill - Lake Mills, IA
Permit No. 95-SDP-01-72

Parameter	Units	MCL/GWPS ⁽¹⁾	GU-VIII-1 5/29/2025	GU-VIII-1 11/11/2025	GU-VIII-1 4/29/2026	Trip Blank 4/1/2026
Detection Parameters						
Alkalinity	mg/L	--	486	522	475	--
Ammonia Nitrogen	mg/L	30	6.2	5.09	6.11	--
Calcium	mg/L	--	354	305	353	--
Chloride	mg/L	--	34.9	41.4	40.8	--
Iron	mg/L	--	1.36	1.42	2.6	--
Magnesium	mg/L	--	105	92.5	105	--
Potassium	mg/L	--	14	13.8	14.9	--
Sodium	mg/L	--	40.6	48.2	47.1	--
Sulfate	mg/L	--	947	723	827	--
Dissolved Solids	mg/L	--	1830	1510	1860	--
Suspended Solids	mg/L	--	2.7	<4.0	5.1	--
Turbidity (on-site)	NTU	--	1	--	6	--
Field						
eh/ORP (On Site)	mV	--	--	--	--	--
pH (On Site)	SU	--	7.24	--	6.49	--
Specific Conductance (on site)	umhos/cm	--	2295	--	2491	--
Temperature (on-site)	deg. C	--	16.1	--	12	--
Dissolved Oxygen (on-site)	mg/L	--	--	--	--	--
Turbidity (on-site)	NTU	--	1	--	6	--
Suspended Solids	mg/L	--	2.7	<4.0	5.1	--
Total Metals						
Antimony	mg/L	6	<0.002	<0.002	<0.002	--
Arsenic	mg/L	0.01	0.00269	0.00398	0.00479	--
Barium	mg/L	2	0.0536	0.0536	0.0562	--
Beryllium	mg/L	0.004	<0.002	<0.002	<0.002	--
Cadmium	mg/L	0.005	<0.001	<0.001	<0.001	--
Chromium	mg/L	0.1	<0.002	<0.002	<0.002	--
Cobalt	mg/L	0.0021	0.00606	0.00492	0.00623	--
Copper	mg/L	1.3	<0.005	<0.005	<0.005	--
Lead	mg/L	0.015	<0.002	<0.002	<0.002	--
Nickel	mg/L	0.1	0.0168	0.0168	0.0178	--
Selenium	mg/L	0.05	<0.002	<0.002	<0.002	--
Silver	mg/L	0.1	<0.002	<0.002	<0.002	--
Thallium	mg/L	2	<0.002	<0.002	<0.002	--
Vanadium	mg/L	0.035	<0.005	<0.005	<0.005	--
Zinc	mg/L	2	<0.025	<0.025	<0.025	--
Volatile Organic Compounds (1x per 3 years)						
1,1,1,2-Tetrachloroethane	µg/L	70	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	µg/L	200	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	µg/L	0.3	<0.3	<0.3	<0.3	<0.3
1,1,2-Trichloroethane	µg/L	5	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	µg/L	140	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	µg/L	7	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	µg/L	0.0058	<0.0058	<0.0058	<0.0058	<0.0058
1,2-Dibromo-3-Chloropropane	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dibromoethane	µg/L	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/L	600	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	µg/L	5	<10.0	<10.0	<10.0	<10.0
1,2-Dichloropropane	µg/L	5	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	µg/L	75	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	µg/L	4000	<10	<10	<10	<10
2-Hexanone	µg/L	--	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	µg/L	560	<5	<5	<5	<5
Acetone	µg/L	6300	<25	<25	<25	<25
Acrylonitrile	µg/L	0.32	<0.32	<0.32	<0.32	<0.32
Benzene	µg/L	5	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	µg/L	90	<1	<1	<1	<1
Bromodichloromethane	µg/L	80	<1.0	<1.0	<1.0	<1.0
Bromofom	µg/L	80	<1.0	<1.0	<1.0	<1.0
Bromomethane	µg/L	10	<2.5	<2.5	<2.5	<2.5
Carbon disulfide	µg/L	700	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	µg/L	5	<1	<1	<1	<1
Chlorobenzene	µg/L	100	<1.0	<1.0	<1.0	<1.0
Chloroethane	µg/L	2800	<2.5	<2.5	<2.5	<2.5
Chloroform	µg/L	80	<1.0	<1.0	<1.0	<1.0
Chloromethane	µg/L	--	<1.25	<1.25	<1.25	<1.25
cis-1,2-Dichloroethene	µg/L	70	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	µg/L	--	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	80	<1	<1	<1	<1
Dibromomethane	µg/L	70	<1	<1	<1	<1
Ethylbenzene	µg/L	700	<1.0	<1.0	<1.0	<1.0
Iodomethane	µg/L	--	<10	<10	<10	<10
Methylene Chloride	µg/L	--	<2.5	<2.5	<2.5	<2.5
Styrene	µg/L	100	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	µg/L	5	<1.0	<1.0	<1.0	<1.0
Toluene	µg/L	1000	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	µg/L	100	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	µg/L	--	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	µg/L	1.8	<1	<1	<1	<1
Trichloroethene	µg/L	5	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	µg/L	2000	<2.5	<2.5	<2.5	<2.5
Vinyl acetate	µg/L	--	<5	<5	<5	<5
Vinyl chloride	µg/L	2	<1	<1	<1	<1
Xylenes, Total	µg/L	10000	<1.5	<1.5	<1.5	<1.5

Notes:

(1) - Maximum Contaminant Level (MCL), per USEPA; Groundwater Protection Standard (GWPS), per IDNR

Indicates VOC detected at concentrations above its reporting limit

Indicates parameter detected at concentrations above WQ standard (MCL/GWPS)

Indicates unconfirmed concentration

Central Disposal Systems, Inc. Landfill

Sample Delivery Group: L1969300
Samples Received: 05/01/2026
Project Number: 200
Description: GU-VIII-1 Background
Site: IA02
Report To: George Fletcher
21265 430th Street
Lake Mills, IA 50450

Entire Report Reviewed By:



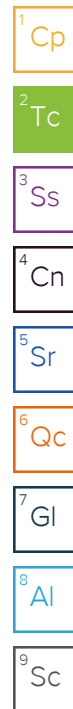
Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

Trip Blank L1969300-01

Collected by
Mike Hamer

Collected date/time
04/29/26 00:00

Received date/time
05/01/26 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746015	1	05/03/26 13:15	05/03/26 13:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746325	1	05/04/26 16:13	05/04/26 16:13	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746777	1	05/05/26 23:44	05/05/26 23:44	JHH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

GU-VIII-1 L1969300-02

Collected by
Mike Hamer

Collected date/time
04/29/26 12:00

Received date/time
05/01/26 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2745950	1	05/03/26 07:57	05/03/26 20:23	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2746199	1	05/04/26 16:17	05/04/26 16:19	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2746987	1	05/05/26 17:26	05/05/26 17:26	SGG	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2746138	1	05/03/26 21:02	05/03/26 21:02	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2745546	1	05/03/26 04:31	05/03/26 04:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2745546	10	05/03/26 05:05	05/03/26 05:05	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2745502	1	05/06/26 15:15	05/07/26 16:45	JDM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2747884	1	05/08/26 13:03	05/08/26 19:37	TMT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746015	1	05/03/26 18:02	05/03/26 18:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746325	1	05/04/26 16:35	05/04/26 16:35	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2746777	1	05/06/26 03:22	05/06/26 03:22	JHH	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Central Disposal Systems, Inc. Landfill

PROJECT:

200

SDG:

L1969300

DATE/TIME:

05/13/26 17:15

PAGE:

3 of 28

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

Analyzed from headspace vial.

Batch	Method	Lab Sample ID
WG2746777	8260B	L1969300-01

Wet Chemistry by Method 9056A

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2745546	(MS) R4369106-7	Sulfate

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2745546	(MS) R4369106-7, (MS) R4369106-4, (MSD) R4369106-5, L1969300-02	Chloride and Sulfate

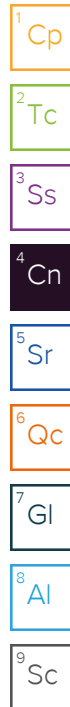
The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2745546	(MS) R4369106-7	Sulfate

Metals (ICPMS) by Method 6020

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2745502	(MS) R4371152-6, (MSD) R4371152-7	Barium, Calcium and Magnesium



CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260B

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2746777	Toluene-d8	L1969300-02

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2746325	(LCS) R4370040-1, L1969300-01, 02	1,2-Dibromo-3-Chloropropane

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Trip Blank

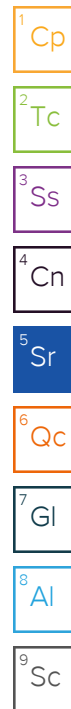
Collected date/time: 04/29/26 00:00

SAMPLE RESULTS - 01

L1969300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,2,3-Trichloropropane	ND		0.00580	1	05/04/2026 16:13	WG2746325
1,1,1-Trichloroethane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	05/04/2026 16:13	WG2746325
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/03/2026 13:15	WG2746015
1,2-Dibromoethane	ND		0.0500	1	05/04/2026 16:13	WG2746325
1,1,2-Trichloroethane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,1-Dichloroethane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,1-Dichloroethene	ND		1.00	1	05/03/2026 13:15	WG2746015
1,2-Dichlorobenzene	ND		1.00	1	05/03/2026 13:15	WG2746015
1,2-Dichloroethane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,2-Dichloropropane	ND		1.00	1	05/03/2026 13:15	WG2746015
1,4-Dichlorobenzene	ND		1.00	1	05/03/2026 13:15	WG2746015
2-Butanone (MEK)	ND		10.0	1	05/03/2026 13:15	WG2746015
2-Hexanone	ND		5.00	1	05/03/2026 13:15	WG2746015
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/03/2026 13:15	WG2746015
Acetone	ND		25.0	1	05/05/2026 23:44	WG2746777
Acrylonitrile	ND		0.320	1	05/03/2026 13:15	WG2746015
Benzene	ND		1.00	1	05/03/2026 13:15	WG2746015
Bromochloromethane	ND		1.00	1	05/03/2026 13:15	WG2746015
Bromodichloromethane	ND		1.00	1	05/03/2026 13:15	WG2746015
Bromoform	ND		1.00	1	05/03/2026 13:15	WG2746015
Bromomethane	ND		2.50	1	05/03/2026 13:15	WG2746015
Carbon disulfide	ND		1.00	1	05/03/2026 13:15	WG2746015
Carbon tetrachloride	ND		1.00	1	05/03/2026 13:15	WG2746015
Chlorobenzene	ND		1.00	1	05/03/2026 13:15	WG2746015
Chlorodibromomethane	ND		1.00	1	05/03/2026 13:15	WG2746015
Chloroethane	ND		2.50	1	05/03/2026 13:15	WG2746015
Chloroform	ND		1.00	1	05/03/2026 13:15	WG2746015
Chloromethane	ND		1.25	1	05/03/2026 13:15	WG2746015
Dibromomethane	ND		1.00	1	05/03/2026 13:15	WG2746015
Ethylbenzene	ND		1.00	1	05/03/2026 13:15	WG2746015
Iodomethane	ND		10.0	1	05/03/2026 13:15	WG2746015
Methylene Chloride	ND		2.50	1	05/03/2026 13:15	WG2746015
Styrene	ND		1.00	1	05/03/2026 13:15	WG2746015
Tetrachloroethene	ND		1.00	1	05/03/2026 13:15	WG2746015
Toluene	ND		1.00	1	05/03/2026 13:15	WG2746015
Trichloroethene	ND		1.00	1	05/03/2026 13:15	WG2746015
Trichlorofluoromethane	ND		2.50	1	05/03/2026 13:15	WG2746015
Vinyl acetate	ND		5.00	1	05/03/2026 13:15	WG2746015
Vinyl chloride	ND		1.00	1	05/03/2026 13:15	WG2746015
Xylenes, Total	ND		1.50	1	05/03/2026 13:15	WG2746015
cis-1,2-Dichloroethene	ND		1.00	1	05/03/2026 13:15	WG2746015
cis-1,3-Dichloropropene	ND		1.00	1	05/03/2026 13:15	WG2746015
trans-1,2-Dichloroethene	ND		1.00	1	05/03/2026 13:15	WG2746015
trans-1,3-Dichloropropene	ND		1.00	1	05/03/2026 13:15	WG2746015
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/03/2026 13:15	WG2746015
(S) 4-Bromofluorobenzene	106			67.0-138	05/03/2026 13:15	WG2746015
(S) 4-Bromofluorobenzene	94.4			67.0-138	05/05/2026 23:44	WG2746777
(S) Toluene-d8	99.1			75.0-131	05/03/2026 13:15	WG2746015
(S) Toluene-d8	93.8			75.0-131	05/05/2026 23:44	WG2746777
(S) 1,2-Dichloroethane-d4	120			70.0-130	05/03/2026 13:15	WG2746015
(S) 1,2-Dichloroethane-d4	106			70.0-130	05/05/2026 23:44	WG2746777



ACCOUNT:

Central Disposal Systems, Inc. Landfill

PROJECT:

200

SDG:

L1969300

DATE/TIME:

05/13/26 17:15

PAGE:

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Additional Information - Results for field analyses are not accredited to ISO 17025

	Result	Units
Analyte		
pH (On Site)	6.49	su
Specific Conductance (on site)	2491	umhos/cm
Temperature (on-site)	12	Deg. C
Turbidity (on-site)	6	NTU

Gravimetric Analysis by Method 2540 C-2011

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Dissolved Solids	1860		10.0	1	05/03/2026 20:23	WG2745950

Gravimetric Analysis by Method 2540 D-2011

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Suspended Solids	5.10		4.00	1	05/04/2026 16:19	WG2746199

Wet Chemistry by Method 2320 B-2011

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Alkalinity	475		20.0	1	05/05/2026 17:26	WG2746987

Sample Narrative:

L1969300-02 WG2746987: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

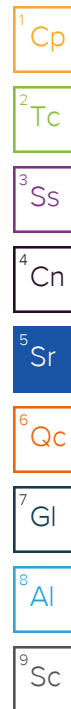
	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Ammonia Nitrogen	6.11		0.100	1	05/03/2026 21:02	WG2746138

Wet Chemistry by Method 9056A

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Chloride	40.8	J6	1.00	1	05/03/2026 04:31	WG2745546
Sulfate	827		5.00	10	05/03/2026 05:05	WG2745546

Metals (ICPMS) by Method 6020

	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Analyte	mg/l		mg/l			
Silver	ND		0.00200	1	05/07/2026 16:45	WG2745502
Arsenic	0.00479		0.00200	1	05/07/2026 16:45	WG2745502
Barium	0.0562		0.00500	1	05/07/2026 16:45	WG2745502
Beryllium	ND		0.00200	1	05/07/2026 16:45	WG2745502
Calcium	353		1.00	1	05/07/2026 16:45	WG2745502
Cadmium	ND		0.00100	1	05/07/2026 16:45	WG2745502
Cobalt	0.00623		0.00200	1	05/07/2026 16:45	WG2745502
Chromium	ND		0.00200	1	05/07/2026 16:45	WG2745502
Copper	ND		0.00500	1	05/07/2026 16:45	WG2745502
Iron	2.60		0.100	1	05/07/2026 16:45	WG2745502
Potassium	14.9		1.00	1	05/08/2026 19:37	WG2747884
Magnesium	105		1.00	1	05/07/2026 16:45	WG2745502
Sodium	47.1		1.00	1	05/08/2026 19:37	WG2747884
Nickel	0.0178		0.00200	1	05/07/2026 16:45	WG2745502
Lead	ND		0.00200	1	05/07/2026 16:45	WG2745502
Antimony	ND		0.00200	1	05/07/2026 16:45	WG2745502



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Selenium	ND		0.00200	1	05/07/2026 16:45	WG2745502
Thallium	ND		0.00200	1	05/07/2026 16:45	WG2745502
Vanadium	ND		0.00500	1	05/07/2026 16:45	WG2745502
Zinc	ND		0.0250	1	05/07/2026 16:45	WG2745502

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,2,3-Trichloropropane	ND		0.00580	1	05/04/2026 16:35	WG2746325
1,1,1-Trichloroethane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	05/04/2026 16:35	WG2746325
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/03/2026 18:02	WG2746015
1,2-Dibromoethane	ND		0.0500	1	05/04/2026 16:35	WG2746325
1,1,2-Trichloroethane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,1-Dichloroethane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,1-Dichloroethene	ND		1.00	1	05/03/2026 18:02	WG2746015
1,2-Dichlorobenzene	ND		1.00	1	05/03/2026 18:02	WG2746015
1,2-Dichloroethane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,2-Dichloropropane	ND		1.00	1	05/03/2026 18:02	WG2746015
1,4-Dichlorobenzene	ND		1.00	1	05/03/2026 18:02	WG2746015
2-Butanone (MEK)	ND		10.0	1	05/03/2026 18:02	WG2746015
2-Hexanone	ND		5.00	1	05/03/2026 18:02	WG2746015
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/03/2026 18:02	WG2746015
Acetone	ND		25.0	1	05/06/2026 03:22	WG2746777
Acrylonitrile	ND		0.320	1	05/03/2026 18:02	WG2746015
Benzene	ND		1.00	1	05/03/2026 18:02	WG2746015
Bromochloromethane	ND		1.00	1	05/03/2026 18:02	WG2746015
Bromodichloromethane	ND		1.00	1	05/03/2026 18:02	WG2746015
Bromoform	ND		1.00	1	05/03/2026 18:02	WG2746015
Bromomethane	ND		2.50	1	05/03/2026 18:02	WG2746015
Carbon disulfide	ND		1.00	1	05/03/2026 18:02	WG2746015
Carbon tetrachloride	ND		1.00	1	05/03/2026 18:02	WG2746015
Chlorobenzene	ND		1.00	1	05/03/2026 18:02	WG2746015
Chlorodibromomethane	ND		1.00	1	05/03/2026 18:02	WG2746015
Chloroethane	ND		2.50	1	05/03/2026 18:02	WG2746015
Chloroform	ND		1.00	1	05/03/2026 18:02	WG2746015
Chloromethane	ND		1.25	1	05/03/2026 18:02	WG2746015
Dibromomethane	ND		1.00	1	05/03/2026 18:02	WG2746015
Ethylbenzene	ND		1.00	1	05/03/2026 18:02	WG2746015
Iodomethane	ND		10.0	1	05/03/2026 18:02	WG2746015
Methylene Chloride	ND		2.50	1	05/03/2026 18:02	WG2746015
Styrene	ND		1.00	1	05/03/2026 18:02	WG2746015
Tetrachloroethene	ND		1.00	1	05/03/2026 18:02	WG2746015
Toluene	ND		1.00	1	05/03/2026 18:02	WG2746015
Trichloroethene	ND		1.00	1	05/03/2026 18:02	WG2746015
Trichlorofluoromethane	ND		2.50	1	05/03/2026 18:02	WG2746015
Vinyl acetate	ND		5.00	1	05/03/2026 18:02	WG2746015
Vinyl chloride	ND		1.00	1	05/03/2026 18:02	WG2746015
Xylenes, Total	ND		1.50	1	05/03/2026 18:02	WG2746015
cis-1,2-Dichloroethene	ND		1.00	1	05/03/2026 18:02	WG2746015
cis-1,3-Dichloropropene	ND		1.00	1	05/03/2026 18:02	WG2746015
trans-1,2-Dichloroethene	ND		1.00	1	05/03/2026 18:02	WG2746015
trans-1,3-Dichloropropene	ND		1.00	1	05/03/2026 18:02	WG2746015
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/03/2026 18:02	WG2746015
(S) 4-Bromofluorobenzene	99.1			67.0-138	05/03/2026 18:02	WG2746015

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	91.3			67.0-138	05/06/2026 03:22	WG2746777
(S) Toluene-d8	97.0			75.0-131	05/03/2026 18:02	WG2746015
(S) Toluene-d8	72.3	J2		75.0-131	05/06/2026 03:22	WG2746777
(S) 1,2-Dichloroethane-d4	119			70.0-130	05/03/2026 18:02	WG2746015
(S) 1,2-Dichloroethane-d4	113			70.0-130	05/06/2026 03:22	WG2746777

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4369699-1 05/03/26 20:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	ND		2.82	10.0

L1969300-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1969300-02 05/03/26 20:23 • (DUP) R4369699-3 05/03/26 20:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1860	1860	1	0.000		10

L1969713-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1969713-08 05/03/26 20:23 • (DUP) R4369699-4 05/03/26 20:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	892	912	1	2.22		10

Laboratory Control Sample (LCS)

(LCS) R4369699-2 05/03/26 20:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8500	96.6	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4369596-1 05/04/26 16:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Suspended Solids	ND		0.350	2.50

L1969280-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1969280-03 05/04/26 16:19 • (DUP) R4369596-3 05/04/26 16:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	162	176	1	8.31		10

L1969329-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1969329-03 05/04/26 16:19 • (DUP) R4369596-4 05/04/26 16:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	516	514	1	0.388		10

Laboratory Control Sample (LCS)

(LCS) R4369596-2 05/04/26 16:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Suspended Solids	773	830	107	85.0-115	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4369918-2 05/05/26 15:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:
BLANK: Endpoint pH 4.5

L1969192-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1969192-09 05/05/26 16:16 • (DUP) R4369918-3 05/05/26 16:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	92.2	93.7	1	1.52		20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

L1969192-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1969192-07 05/05/26 18:30 • (DUP) R4369918-4 05/05/26 18:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Alkalinity	154	154	1	0.323		20

Sample Narrative:
OS: Endpoint pH 4.5 HEADSPACE
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4369918-1 05/05/26 15:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Alkalinity	100	106	106	90.0-110	

Sample Narrative:
LCS: Endpoint pH 4.5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4369020-1 05/03/26 20:36

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1969245-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1969245-01 05/03/26 20:56 • (DUP) R4369020-3 05/03/26 20:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	0.385	0.385	1	0.000		10

L1969432-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1969432-01 05/03/26 21:06 • (DUP) R4369020-6 05/03/26 21:08

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4369020-2 05/03/26 20:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Ammonia Nitrogen	7.50	7.68	102	90.0-110	

L1969245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969245-01 05/03/26 20:56 • (MS) R4369020-4 05/03/26 20:59 • (MSD) R4369020-5 05/03/26 21:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Ammonia Nitrogen	5.00	0.385	5.85	5.65	109	105	1	90.0-110			3.62	10

L1969432-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1969432-01 05/03/26 21:06 • (MS) R4369020-7 05/03/26 21:09

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Ammonia Nitrogen	5.00	ND	5.14	103	1	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4369106-1 05/03/26 01:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.201	U	0.0519	1.00
Sulfate	0.269	U	0.0774	5.00

L1969223-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1969223-17 05/03/26 03:00 • (DUP) R4369106-3 05/03/26 03:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	19.4	19.4	1	0.311		15
Sulfate	66.0	65.9	1	0.0977		15

L1969300-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1969300-02 05/03/26 04:31 • (DUP) R4369106-6 05/03/26 04:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	40.8	41.2	1	0.748		15

L1969300-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1969300-02 05/03/26 05:05 • (DUP) R4369106-8 05/03/26 05:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	827	827	10	0.0199		15

Laboratory Control Sample (LCS)

(LCS) R4369106-2 05/03/26 01:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.0	94.9	80.0-120	
Sulfate	40.0	38.7	96.7	80.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1969223-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969223-17 05/03/26 03:00 • (MS) R4369106-4 05/03/26 03:22 • (MSD) R4369106-5 05/03/26 03:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	19.4	54.8	54.7	88.4	88.2	1	80.0-120			0.152	15
Sulfate	40.0	66.0	92.4	92.3	66.1	65.8	1	80.0-120	J6	J6	0.131	15

L1969300-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1969300-02 05/03/26 04:31 • (MS) R4369106-7 05/03/26 04:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	40.8	71.8	77.3	1	80.0-120	J6
Sulfate	40.0	841	646	0.000	1	80.0-120	E V

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4371152-1 05/07/26 22:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	ND		0.000250	0.00200
Arsenic	ND		0.000250	0.00200
Barium	ND		0.000360	0.00500
Beryllium	ND		0.000120	0.00200
Calcium	0.0716	U	0.0460	1.00
Cadmium	ND		0.000160	0.00100
Cobalt	ND		0.000260	0.00200
Chromium	ND		0.000540	0.00200
Copper	ND		0.000520	0.00500
Iron	ND		0.0150	0.100
Magnesium	ND		0.100	1.00
Nickel	ND		0.000350	0.00200
Antimony	ND		0.000754	0.00200
Selenium	ND		0.000380	0.00200
Vanadium	ND		0.000180	0.00500
Zinc	ND		0.00256	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4371596-1 05/08/26 19:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	ND		0.000240	0.00200
Thallium	ND		0.000190	0.00200

Laboratory Control Sample (LCS)

(LCS) R4371152-2 05/07/26 22:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.0500	0.0517	103	80.0-120	
Arsenic	0.0500	0.0478	95.6	80.0-120	
Barium	0.0500	0.0533	107	80.0-120	
Beryllium	0.0500	0.0488	97.6	80.0-120	
Calcium	5.00	5.63	113	80.0-120	
Cadmium	0.0500	0.0508	102	80.0-120	
Cobalt	0.0500	0.0489	97.9	80.0-120	
Chromium	0.0500	0.0486	97.1	80.0-120	
Copper	0.0500	0.0490	98.0	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4371152-2 05/07/26 22:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iron	1.00	0.993	99.3	80.0-120	
Magnesium	5.00	5.30	106	80.0-120	
Nickel	0.0500	0.0498	99.5	80.0-120	
Antimony	0.0500	0.0467	93.4	80.0-120	
Selenium	0.0500	0.0475	95.0	80.0-120	
Vanadium	0.0500	0.0481	96.2	80.0-120	
Zinc	0.0500	0.0490	98.0	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4371596-2 05/08/26 19:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Lead	0.0500	0.0478	95.5	80.0-120	
Thallium	0.0500	0.0484	96.8	80.0-120	

L1969143-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969143-07 05/07/26 23:03 • (MS) R4371152-4 05/07/26 23:10 • (MSD) R4371152-5 05/07/26 23:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Silver	0.0500	ND	0.0525	0.0494	105	98.8	1	75.0-125			6.11	20
Arsenic	0.0500	0.0263	0.0790	0.0736	105	94.6	1	75.0-125			7.03	20
Barium	0.0500	0.0562	0.114	0.107	115	101	1	75.0-125			6.59	20
Beryllium	0.0500	ND	0.0526	0.0490	105	98.0	1	75.0-125			7.10	20
Calcium	5.00	6.97	12.9	11.8	118	96.1	1	75.0-125			8.81	20
Cadmium	0.0500	ND	0.0505	0.0477	101	95.4	1	75.0-125			5.60	20
Cobalt	0.0500	0.00489	0.0539	0.0504	98.0	91.1	1	75.0-125			6.59	20
Chromium	0.0500	0.0532	0.108	0.0985	110	90.5	1	75.0-125			9.44	20
Copper	0.0500	0.00613	0.0540	0.0523	95.7	92.3	1	75.0-125			3.15	20
Iron	1.00	0.622	1.73	1.59	111	96.7	1	75.0-125			8.69	20
Magnesium	5.00	10.5	16.6	15.0	121	89.5	1	75.0-125			9.91	20
Nickel	0.0500	0.0281	0.0790	0.0736	102	91.0	1	75.0-125			6.98	20
Antimony	0.0500	0.00240	0.0545	0.0511	104	97.4	1	75.0-125			6.53	20
Selenium	0.0500	ND	0.0486	0.0459	97.1	91.7	1	75.0-125			5.70	20
Vanadium	0.0500	0.00594	0.0555	0.0514	99.1	90.9	1	75.0-125			7.67	20
Zinc	0.0500	ND	0.0696	0.0674	105	100	1	75.0-125			3.17	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1969352-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969352-01 05/07/26 23:17 • (MS) R4371152-6 05/07/26 23:20 • (MSD) R4371152-7 05/07/26 23:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.0500	ND	0.0522	0.0522	104	104	1	75.0-125			0.0611	20
Arsenic	0.0500	0.0570	0.104	0.104	94.8	93.8	1	75.0-125			0.479	20
Barium	0.0500	2.48	2.49	2.49	13.4	20.5	1	75.0-125	✓	✓	0.143	20
Beryllium	0.0500	ND	0.0527	0.0536	105	107	1	75.0-125			1.77	20
Calcium	5.00	114	116	115	43.3	31.6	1	75.0-125	✓	✓	0.506	20
Cadmium	0.0500	ND	0.0490	0.0488	97.9	97.6	1	75.0-125			0.326	20
Cobalt	0.0500	ND	0.0481	0.0480	93.9	93.7	1	75.0-125			0.241	20
Chromium	0.0500	ND	0.0485	0.0486	97.1	97.2	1	75.0-125			0.150	20
Copper	0.0500	0.00530	0.0502	0.0507	89.8	90.8	1	75.0-125			0.973	20
Iron	1.00	3.90	4.96	5.12	107	123	1	75.0-125			3.15	20
Magnesium	5.00	51.6	54.4	54.3	55.7	54.6	1	75.0-125	✓	✓	0.105	20
Nickel	0.0500	ND	0.0487	0.0487	94.2	94.3	1	75.0-125			0.130	20
Antimony	0.0500	0.00279	0.0542	0.0517	103	97.8	1	75.0-125			4.66	20
Selenium	0.0500	ND	0.0461	0.0459	92.2	91.8	1	75.0-125			0.368	20
Vanadium	0.0500	ND	0.0510	0.0508	96.3	95.9	1	75.0-125			0.413	20
Zinc	0.0500	ND	0.0615	0.0615	96.1	96.2	1	75.0-125			0.0306	20

L1969143-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969143-07 05/08/26 20:00 • (MS) R4371596-4 05/08/26 20:06 • (MSD) R4371596-5 05/08/26 20:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.00202	0.0490	0.0482	93.9	92.4	1	75.0-125			1.52	20
Thallium	0.0500	ND	0.0468	0.0468	93.5	93.6	1	75.0-125			0.0585	20

L1969352-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969352-01 05/08/26 20:13 • (MS) R4371596-6 05/08/26 20:16 • (MSD) R4371596-7 05/08/26 20:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.0289	0.0762	0.0761	94.8	94.5	1	75.0-125			0.187	20
Thallium	0.0500	ND	0.0487	0.0484	97.3	96.8	1	75.0-125			0.557	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4371579-1 05/08/26 19:30

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Potassium	ND		0.0370	1.00
Sodium	ND		0.110	1.00

Laboratory Control Sample (LCS)

(LCS) R4371579-2 05/08/26 19:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Potassium	5.00	4.94	98.8	80.0-120	
Sodium	5.00	4.84	96.9	80.0-120	

L1969300-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1969300-02 05/08/26 19:37 • (MS) R4371579-4 05/08/26 19:43 • (MSD) R4371579-5 05/08/26 19:47

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Potassium	5.00	14.9	19.8	19.6	96.9	93.1	1	75.0-125			0.954	20
Sodium	5.00	47.1	52.7	53.2	112	123	1	75.0-125			1.04	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4369331-3 05/03/26 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.0379	0.100
1,1,1-Trichloroethane	ND		0.0369	0.100
1,1,2,2-Tetrachloroethane	ND		0.0278	0.100
1,1,2-Trichloroethane	ND		0.0239	0.100
1,1-Dichloroethane	ND		0.0196	0.100
1,1-Dichloroethene	ND		0.0242	0.100
1,2-Dichlorobenzene	ND		0.0170	0.200
1,2-Dichloroethane	ND		0.0260	0.100
1,2-Dichloropropane	ND		0.0568	0.200
1,4-Dichlorobenzene	ND		0.0280	0.200
2-Butanone (MEK)	ND		2.54	4.00
2-Hexanone	ND		0.134	1.00
4-Methyl-2-pentanone (MIBK)	ND		0.0912	1.00
Acrylonitrile	ND		0.144	0.500
Benzene	ND		0.0187	0.0400
Bromochloromethane	ND		0.0226	0.200
Bromodichloromethane	ND		0.0290	0.100
Bromoform	ND		0.0468	1.00
Bromomethane	ND		0.0788	0.500
Carbon disulfide	ND		0.0280	0.500
Carbon tetrachloride	ND		0.0359	0.200
Chlorobenzene	ND		0.00840	0.100
Chlorodibromomethane	ND		0.0245	0.100
Chloroethane	ND		0.0680	0.200
Chloroform	0.148		0.0412	0.100
Chloromethane	ND		0.174	0.500
Dibromomethane	ND		0.0300	0.200
Ethylbenzene	ND		0.0295	0.100
Iodomethane	ND		0.0928	0.500
Methylene Chloride	ND		0.266	1.00
Styrene	ND		0.00916	0.500
Tetrachloroethene	ND		0.0358	0.100
Toluene	ND		0.0520	0.200
Trichloroethene	ND		0.0234	0.0400
Trichlorofluoromethane	ND		0.0331	0.100
Vinyl acetate	ND		0.102	0.500
Vinyl chloride	ND		0.0462	0.0500
Xylenes, Total	ND		0.0352	0.260
cis-1,2-Dichloroethene	ND		0.0294	0.100
cis-1,3-Dichloropropene	ND		0.0303	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4369331-3 05/03/26 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
trans-1,2-Dichloroethene	ND		0.0416	0.200
trans-1,3-Dichloropropene	ND		0.0456	0.200
trans-1,4-Dichloro-2-butene	ND		0.0744	0.200
(S) 4-Bromofluorobenzene	101			67.0-138
(S) Toluene-d8	96.8			75.0-131
(S) 1,2-Dichloroethane-d4	118			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4369331-1 05/03/26 09:35 • (LCSD) R4369331-2 05/03/26 09:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	9.57	9.82	95.7	98.2	74.0-129			2.58	20
1,1,1-Trichloroethane	10.0	9.86	9.67	98.6	96.7	69.0-126			1.95	20
1,1,2,2-Tetrachloroethane	10.0	10.1	10.1	101	101	68.0-128			0.000	20
1,1,2-Trichloroethane	10.0	9.39	9.41	93.9	94.1	78.0-123			0.213	20
1,1-Dichloroethane	10.0	9.50	9.35	95.0	93.5	70.0-127			1.59	20
1,1-Dichloroethene	10.0	10.2	10.1	102	101	65.0-131			0.985	20
1,2-Dichlorobenzene	10.0	9.70	9.80	97.0	98.0	76.0-124			1.03	20
1,2-Dichloroethane	10.0	9.91	9.80	99.1	98.0	65.0-131			1.12	20
1,2-Dichloropropane	10.0	9.71	9.69	97.1	96.9	74.0-125			0.206	20
1,4-Dichlorobenzene	10.0	9.43	9.34	94.3	93.4	77.0-121			0.959	20
2-Butanone (MEK)	50.0	62.2	63.7	124	127	30.0-160			2.38	24
2-Hexanone	50.0	53.3	54.6	107	109	54.0-147			2.41	20
4-Methyl-2-pentanone (MIBK)	50.0	49.9	50.5	99.8	101	56.0-143			1.20	20
Acrylonitrile	50.0	46.4	46.5	92.8	93.0	45.0-153			0.215	22
Benzene	10.0	9.69	9.73	96.9	97.3	70.0-123			0.412	20
Bromochloromethane	10.0	10.2	10.2	102	102	77.0-128			0.000	20
Bromodichloromethane	10.0	10.5	10.5	105	105	73.0-121			0.000	20
Bromoform	10.0	8.75	8.97	87.5	89.7	64.0-132			2.48	20
Bromomethane	10.0	9.30	10.9	93.0	109	56.0-147			15.8	20
Carbon disulfide	10.0	9.01	8.89	90.1	88.9	56.0-133			1.34	20
Carbon tetrachloride	10.0	10.1	10.3	101	103	66.0-128			1.96	20
Chlorobenzene	10.0	9.12	9.24	91.2	92.4	76.0-128			1.31	20
Chlorodibromomethane	10.0	9.54	9.70	95.4	97.0	74.0-127			1.66	20
Chloroethane	10.0	10.5	10.4	105	104	61.0-134			0.957	20
Chloroform	10.0	9.64	9.51	96.4	95.1	72.0-123			1.36	20
Chloromethane	10.0	9.52	9.41	95.2	94.1	51.0-138			1.16	20
Dibromomethane	10.0	9.64	9.50	96.4	95.0	75.0-122			1.46	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4369331-1 05/03/26 09:35 • (LCSD) R4369331-2 05/03/26 09:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	10.0	8.81	8.91	88.1	89.1	74.0-126			1.13	20
Iodomethane	50.0	59.1	57.2	118	114	74.0-134			3.27	20
Methylene Chloride	10.0	9.80	9.66	98.0	96.6	68.0-123			1.44	20
Styrene	10.0	8.57	8.79	85.7	87.9	72.0-127			2.53	20
Tetrachloroethene	10.0	8.82	9.20	88.2	92.0	70.0-136			4.22	20
Toluene	10.0	9.09	9.17	90.9	91.7	75.0-121			0.876	20
Trichloroethene	10.0	10.1	10.6	101	106	76.0-126			4.83	20
Trichlorofluoromethane	10.0	10.9	10.5	109	105	61.0-142	U	U	3.74	20
Vinyl acetate	50.0	47.7	45.0	95.4	90.0	43.0-159			5.83	20
Vinyl chloride	10.0	9.78	9.61	97.8	96.1	63.0-134			1.75	20
Xylenes, Total	30.0	27.3	27.9	91.0	93.0	72.0-127			2.17	20
cis-1,2-Dichloroethene	10.0	8.99	8.80	89.9	88.0	73.0-125			2.14	20
cis-1,3-Dichloropropene	10.0	9.45	9.42	94.5	94.2	76.0-127			0.318	20
trans-1,2-Dichloroethene	10.0	9.46	9.40	94.6	94.0	71.0-125			0.636	20
trans-1,3-Dichloropropene	10.0	9.21	9.27	92.1	92.7	73.0-127			0.649	20
trans-1,4-Dichloro-2-butene	10.0	9.75	9.92	97.5	99.2	45.0-143			1.73	20
(S) 4-Bromofluorobenzene				94.8	95.4	67.0-138				
(S) Toluene-d8				96.3	96.4	75.0-131				
(S) 1,2-Dichloroethane-d4				109	109	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4370040-2 05/04/26 15:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	ND		0.00200	0.00500
1,2-Dibromo-3-Chloropropane	ND		0.000520	0.00500
1,2-Dibromoethane	ND		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R4370040-1 05/04/26 14:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0550	110	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0670	134	70.0-130	<u>J4</u>
1,2-Dibromoethane	0.0500	0.0570	114	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4370179-3 05/05/26 22:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	ND		1.46	2.00
(S) 4-Bromofluorobenzene	92.6			67.0-138
(S) Toluene-d8	93.8			75.0-131
(S) 1,2-Dichloroethane-d4	101			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4370179-1 05/05/26 21:18 • (LCSD) R4370179-2 05/05/26 21:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	50.0	49.3	38.8	98.6	77.6	10.0-160			23.8	31
(S) 4-Bromofluorobenzene				95.8	97.5	67.0-138				
(S) Toluene-d8				95.6	96.0	75.0-131				
(S) 1,2-Dichloroethane-d4				99.6	100	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

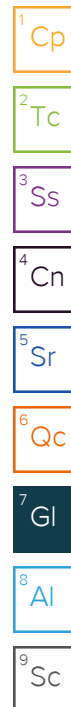
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

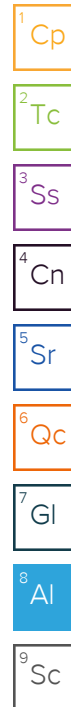
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate



Laboratory Use Only / Lab I.D.:

Site Name: Central Disposal

L1969300

Sample I.D. GU-V111-1

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D

Sampling Equipment: S

D - Dipper

S - Sample Bottle

I - Indirect

T - Transfer Vessel

O - Other

V - Visual

Sample Type: G

Grab / Composite

(circle one)

Field Measurements

Sample Date
MM/DD/YYYY

Sample Time
24 Hr. Clock

pH
(std. Units)

CONDUCTIVITY
(umhos/cm @
25°C)

Temp
°C

TURBIDITY
(NTUs)

DO
mg/L -
ppm

eH/ORP
(std. Units)

04/29/2026

1200

6.49

2491

12.0

6

2.3

-126

Record final stabilized field readings.

Field Observations

Sample Appearance:

Odor: None

Color: None

Other: _____

Sheen Present ☐ Y or ☒ N

Foam Present: ☐ Y or ☒ N

Floating Solids: ☐ Y or ☒ N

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 10-20 / NW

Precipitation: ☐ Y or ☒ N

Specific Comments: _____

4/20/26

Mike Hsu

[Signature]

Allison

Date

Name

Signature

Company

Table 2b
2023 HMSP Background Monitoring Schedule
(Revised for GU-VIII-1 MW-11 Replacement)
Central Disposal Landfill - Lake Mills, IA
Permit No. 95-SDP-01-72

Monitoring Location	2023			2024			2025		2026		2027		2028		2029	2030
	Annual Event***	Background Event #1 (new wells) ¹	Background Event #2 (new wells) ¹	Background Event #3 (new wells) ¹	Annual Event***	Background Event #4 (new wells) ¹	Annual Event*** ¹ & Background Event #6 (new wells) ¹ (GU-VII-1) ¹	Background Event #7 (new wells) ¹ (GU-VII-1) ¹ & Background Event #1 (MW-11R) ²	Background Event #8 (new wells) ¹ (GU-VII-1) ¹ & Background Event #3 (MW-11R) ²	--	Annual Event***	--	--	Annual Event***	Annual Event***	
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
April-May 2023 (completed)	May-June 2023 (completed)	October-November 2023 (completed)	April-May 2024 (completed)	June-July 2024 (completed)	October-November 2024	October-November 2025	April-May 2026	October-November 2026	April-May 2027	June-July 2027	October-November 2027	April-May 2028	October-November 2028	April-May 2029	June-July 2030	
MW-2A	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-7A	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-11 ¹	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Sealed August 2025	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	
MW-11R ²	--	--	--	--	--	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters ⁴	
MW-110	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-117 [*]	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-118 [*]	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-123 [*]	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-132	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-133	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-134 ¹	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters ²	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-135 ¹	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters ²	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
MW-136 ¹	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters ²	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
GU-V-2	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
GU-VIII-1 ³	--	--	--	--	--	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters	
Other wells **	WL	--	--	--	WL	--	WL	--	--	WL	--	--	WL	WL	WL	

Notes:
 * Selected Annual Parameters (Optimized parameter list per 2023 HMSP)
 -- Intrawell Parameters Statistical Detection = Ammonia, Chloride, Sodium, Alkalinity.
 -- Supplemental Parameters = calcium, iron, magnesium, potassium, sulfate, TDS and TSS.
 * Appendix I Metals & VOCs once per 3 years (completed in May 2020 and May 2023, next event 2026)
 * Well added to detection monitoring program fall 2014
 ** Water Elevation wells: MW-101, MW-104, MW-112, MW-120, P120S, MW-121, P121S, P-15, P-16, P-17 & P-18
 *** Annual events on seasonal rotating schedule: 2023 April-May; 2024 June-July; 2025 Oct-Nov. Winter excluded. 2026 April-May; 2027 June-July; 2028 Oct-Nov. Winter Excluded. 2029 April-May; and so on
¹ = New monitoring wells MW-134, MW-135, and MW-136 installed May-June 2023
² = New monitoring wells are to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.
³ = New groundwater underdrain GU-VIII-1
⁴ = GU-VIII-1 to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.
⁵ = MW-11 sealed and replacement, MW-11R, installed August 2025
⁶ = MW-11R to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.