

Haley Griffith (adpce.ad)

Subject: RE: Domtar Paper Mill - Class 3N 2025 AEIRS for Mill Trash LF and Lime Waste LF.

From: Bradford, Michael <MBradford@scsengineers.com>

Sent: Friday, June 19, 2026 1:11 PM

To: Michael Marchman (adpce.ad) <michael.marchman@arkansas.gov>; Greg Banic (adpce.ad) <greg.banic@arkansas.gov>; Max Weidman (adpce.ad) <max.weidman@arkansas.gov>

Subject: Domtar Paper Mill - Class 3N 2025 AEIRS for Mill Trash LF and Lime Waste LF.

CAUTION: External Email

Good afternoon,

Please find the attached 2025 AEIRs for the two Class 3N landfills at Domtar paper mill.

Thanks,

Michael Bradford, P.E.

Project Director

(Licensed in AR, AZ, CA, FL, NM, NV, TX, WY)

SCS Engineers

M: 602-826-9398 O:602-606-4553

mbradford@scsengineers.com

ANNUAL ENGINEERING INSPECTION REPORT (AEIR) FORM

Reporting Year: **2025**

Note: Check applicable landfill class. Class 1 (Reg 22.423(b)) _____, Class 3 (22.522(a)) **X**, Class 4 (22.619(b)) _____

Facility Name: Domtar Lime Waste Class 3N Landfill AFIN: 41-00002 Permit #: 0296-S3N Landfill Class: 3N

Report Submittal Date: June 30, 2026 Date of Landfill Site Inspection by Certifying Engineer: April 29, 2026

***Complete the form as indicated
Instructions are bolded and italicized.***

COLUMN TO BE COMPLETED BY REPORTER

Item	Regulation Reference	Item Description	Report Information/Comments/Remarks	Attachment Reference
1	22.423(b)(1) 22.522(a)(1) 22.619(b)(1)	Remaining volume in current cell.	a) ~133,219 cubic yards <i>(as of 01/08/26)</i> <i>NOTE: ~141 CY increase in remaining airspace year-over-year. The Lime Waste Landfill has seen an increase in available airspace due to lack of active disposal due to the waste diversion program (See Item 3 Below) and waste settlement over time.</i>	
		Projected date of opening new cell.	b) Date: <u>n/a</u>	
2	22.423(b)(2) 22.522(a)(2) 22.619(b)(2)	Remaining volume of all permitted units.	a) ~133,219 cubic yards	
		Total air space used during the reporting period.	b) ~ 512 CY of waste placed based on trucking records provided by Paper Mill Staff.	
		Estimated remaining site life (years) based on utilization rate during the reporting period. <i>Note: Itemize current permitted unit/cell information - use attachment if necessary.</i>	c) Landfill Unit/Cell remaining life: Landfill unit/cell <u>Lime Waste Landfill</u> , <u>415</u> years. d) Entire permitted landfill: <u>415</u> years remaining life. <i>Site life remaining assumes Annual Airspace Used rate (Item 2b) remains constant until closure. However, hypothetically if the waste diversion program ends and waste disposal rates return to 100% (or approximately 32,000 CY/year assuming 99% of waste is currently being diverted), then the Lime Waste Landfill will be exhausted in ~4 years.</i>	

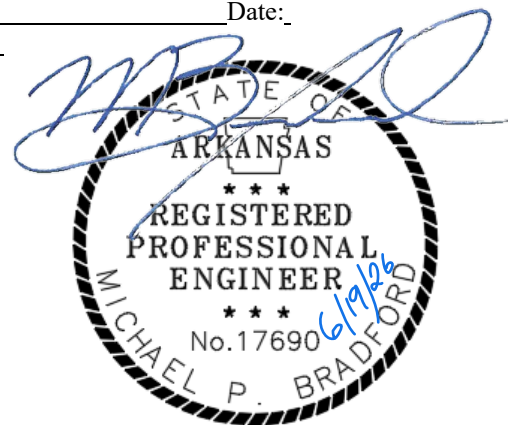
3	22.423(b)(3) 22.522(a)(3) 22.619(b)(3)	Documentation of fill progression in compliance with permit plans, specs and operating plan and narrative. Note: Provide narrative regarding fill progression during the reporting period. Be specific about landfill unit/cell designations (example: Cell 1, Phase A completely filled; Cell 2, Phase A, 50% full, being filled south to north as of December 31). Specifically note any overfill conditions.	a) Progression Narrative: <i>The Lime Waste Landfill is approximately 72% full. The Landfill is generally filled on the north deck area when utilized.. No overfill conditions exist at this time. Note: Since November 2017, the mill has been diverting lime residual waste from the landfill for the purpose of using it as a soil amendment product. The mill is currently continuing this waste diversion and diverted approximately 99% of its lime waste from the landfill during the 2025 reporting period.</i>	
4	22.423(b)(4) 22.522(a)(4) 22.619(b)(4)	Documentation of compliance with regulatory operating requirements, permit conditions, approved operating plan, and other applicable regulations. Note: Review current operating plans, and permit conditions. Include photographs of engineer's inspection as Attachment A. Check for weekly/monthly operational logs, waste volume records in and out of landfill, unauthorized waste form sheets, waste cover maintenance, stormwater reports to ADEQ, and wet weather repair information.	a) Weekly/monthly operational logs exist (Y/N)? <u>Y</u> b) Photos of AEIR inspection attached (Y/N)? <u>Y</u> c) Waste volume in and out records exist (Y/N)? <u>Y</u> d) Unauthorized waste forms exist (Y/N)? <u>Y</u> e) Daily/weekly cover adequate at time of inspection (Y/N)? <u>N/A</u> f) Alternative Daily Cover (ADC) Plan located onsite (Y/N)? <u>N/A</u> Operations in compliance with ADC Plan (Y/N)? <u>N/A</u> g) Liquid Waste Management (LWM) Plan located onsite (Y/N)? <u>N/A</u> Operations in compliance with LWM Plan (Y/N)? <u>N/A</u> h) Liquids received to be bulked during reporting period: <u>N/A</u> gallons <u>N/A</u> tons i) Waste cover of inactive areas maintained adequately (Y/N)? <u>N/A</u> j) Net amount of waste disposed in landfill during reporting period: <u>512*</u> cubic yards <u> </u> tons *estimated by Mill Staff based on loose truck load delivered to the active waste disposal area, thus does not account for operational compaction and settlement. k) Leachate head level less than 1' on liner at time of inspection (Y/N)? <u>Y</u>	A
5	22.423(b)(5) 22.522(a)(5) 22.619(b)(5)	Updated contour map that depicts: Note: Provide updated drawing(s) and final cover permit drawing as Attachment B – discuss any discrepancies. Max. contour interval = 2 feet)	a) Updated contour drawing attached (Y/N)? <u>Y</u> b) Final cover permit drawing attached (Y/N)? <u>Y</u> c) List all discrepancies here: No discrepancies to report this period. d) Is there an overfill condition (Y/N)? <u>N</u>	B

		(i) horizontal and vertical extent of active and inactive fill areas;		
		(ii) status of all permitted units/cells; (Note: Label all active (working face, bulking area, stockpiles), inactive, closed and interim cover areas).	a) Currently, does the facility have sufficient on-site quantities and types of soils for liner and cover construction of permitted units/cells (Y/N)? <u>Yes.</u> <u>See onsite soil analysis provided to ADEQ under ADEQ DOC ID 78893.</u> b) If not, where will deficiency shortfalls be obtained (be specific)? _____ _____ c) Is the current Design Narrative earthwork balance accurate (Y/N)? <u>Y</u>	
		(iii) survey grid (required by 22.426); Note: Include benchmarks and horizontal controls		
		(iv) location of other visible surface features or improvements (e.g., roads, buildings, gas control systems, etc.); Note: Include leachate risers, manholes, monitoring wells, gas wells, etc.		
		(v) the person responsible for gathering the survey data and the date survey data was taken to prepare the map. <i>Reminder: Reporting period is calendar year. Survey data should be collected to reflect the AEIR reporting period.</i>	a) Name: <u>SCS Engineers,</u> b) Name of person using the data to produce contour map: <u>Tyler Warren, P.E.</u> c) Date survey data was collected: <u>1/8/26</u>	
6	22.423(b)(6) 22.522(a)(6) 22.619(b)(6)	Quantity, location, and characteristics of leachate collected, recirculated, and disposed. Note: Provide analytical report as Attachment C. Provide brief narrative on this form in space provided about leachate sources, how leachate is collected, measured and disposed. Also, explain how the leachate head on the landfill liner is monitored and measured.	a) Leachate Collected: <u>488,400</u> gallons b) Leachate Disposed: <u>488,400</u> gallons c) Leachate Recirculated: <u>N/A</u> gallons d) Leachate Recirculation Plan exists (Y/N)? <u>N/A</u> ADEQ approval Doc # <u>N/A</u> e) Leachate operating records exist (Y/N)? <u>Y</u> f) Leachate analytical report attached (Y/N)? <u>Y</u> g) Leachate narrative (collection, measurements and disposal):	C

			<i>Leachate and stormwater commingle within the landfill containment berm and are collected in a concrete sump located on the east side of the landfill outside the waste limit. Liquid collected are pumped into the Paper Mill's NPDES permitted wastewater treatment system. An elapsed run-time meter is used to estimate the quantity of leachate that is pumped from the Landfill into this system.</i> h) Leachate narrative (verifying <1' head on liner system): <i>The Lime Waste Landfill leachate pump station was in good condition and operational at the time of the inspection. The liquid level in the sump was visually verified to be at or below the top of the inlet line incoming from the Lime Waste Landfill's leachate collection and recovery system (LCRS). It is known that the inlet line from the LCRS sits below the top of the liner system, thus at the time of observation the liquid level was verified to be less than 1' over the liner.</i>	
7	22.423(b)(7) 22.522(a)(7) 22.619(b)(7)	Maintenance of stormwater controls and best management practices for erosion control. Note: List any upset conditions during the reporting period (i.e., washouts, etc...). Also, include narrative about vegetation maintenance and repair.	a) Briefly list maintenance activities and upset conditions here: <i>No upset conditions were documented during the reporting period. However, maintenance of the working face and landfill slopes are continuous. No cover is required on the landfill, however, some material that is washed from the waste slopes accumulates inside the perimeter berm and will be removed upon dry conditions and placed back on the slopes or within the active disposal area.</i>	
8	22.423(b)(8) 22.619(b)(8)	Status of capping and closure of completed areas. Note: List areas with acreage that have received interim or final cover. Include total landfilled area acreage not yet under final certified closed cover. Note: "Certified closed" means the facility has received an approval letter from ADEQ accepting the engineer's closure certification report.	a) Lndfl unit/cell _____, _____ acres. Intrm or Final Cover (I/F): _____ b) Lndfl unit/cell _____, _____ acres. Intrm or Final Cover (I/F): _____ c) Lndfl unit/cell _____, _____ acres. Intrm or Final Cover (I/F): _____ d) Lndfl unit/cell _____, _____ acres. Intrm or Final Cover (I/F): _____ e) Acres of disposed waste not under final certified cover: <u>11.4</u> acres f) Acres of disposed waste area that have interim cover: <u>0</u> acres <i>* Lime Waste Landfill is not required to place routine or intermediate cover. All slopes are below final waste grade at this time.</i>	
9	22.423(b)(9) 22.522(a)(8) 22.619(b)(9)	Status of remedial or corrective action activities. Note: List corrective action events during reporting period (e.g., seeps and erosion correction, leachate spills, unauthorized waste handling and removal, etc...), and indicate whether action was taken in response to an ADEQ inspection.	a) Briefly list corrective actions events here: ADEQ performed routine quarterly inspections on 2/20/25, 4/24/25, 8/6/25, and 10/27/25. The ADEQ inspector in each case concluded each inspection with no observed allegations of noncompliance. b) Were any of the corrective actions taken in response to an ADEQ inspection (Y/N)? <u>N/A</u> c) Current status of corrective actions: <u>N/A</u> d) Did corrective actions permanently solve the conditions (Y/N)? <u>N/A</u> Explain briefly:	

10	22.423(b)(10) 22.522(a)(9) 22.619(b)(10)	Updated Financial Assurance documentation as required by Chapter 14. Note: Include copy of most recent financial assurance documentation as Attachment D. Also, include updated closure and post closure cost estimated as an attachment– recommend to use the Closure Costs and Post-closure Care Costs Worksheet located at <u>ADEQ - Solid Waste - Technical Branch Home Page</u>	a) Size of the facility property under current permit? <u>14.7</u> acres b) Size of actual permitted disposal area? <u>12</u> acres c) What is the current total permitted disposal area that contains disposed waste but is not certified closed? <u>11.4</u> acres d) Updated closure cost estimate amount: \$ <u>1,522,389</u> e) Is the closure cost estimate based on the largest area ever requiring closure (Y/N)? <u>Y</u> f) Is the existing closure financial assurance adequate for acreage not yet certified closed (Y/N)?: <u>Y</u>	D
		Specific links to the worksheets: http://www.adeq.state.ar.us/solwaste/branch_technical/pdfs/closure_costs_worksheet.xlsx and http://www.adeq.state.ar.us/solwaste/branch_technical/pdfs/post_closure_care_costs_worksheet.xlsx . Show detailed calculations of cost items in tabular format with specific item breakdowns. Also, show source of unit cost information and/or inflationary factor adjustments – use ADEQ factors where applicable. If updated unit cost information is used instead of inflationary factors, show the source of unit cost information. Confirm estimates are based on largest area ever requiring final cover.	g) Updated post closure care cost estimate amount: \$ <u>100,737</u> h) Is the existing post closure care financial assurance adequate for all permitted areas (Y/N)?: <u>Y</u> i) Is the financial assurance mechanism a trust fund (Y/N)? <u>N</u> j) Are the sources of information for updated unit cost line items shown on the cost estimate calculations (Y/N?): <u>N</u> k) Do the unit cost items for soil cover material include actual third party cost of materials and labor (Y/N)? <u>Yes, cost assumes an onsite soil borrow area with plentiful suitable material just south of the Mill Trash Landfill, see assessment of this area in ADEQ Doc ID 78893</u>	
11	22.423(b)(11) 22.522(a)(10) 22.619(b)(11)	Revised or updated facility Closure Plan in accordance with Chapter 13. Note: Provide updated Closure Plan as Attachment E if facility obtained a permit modification during the reporting period that affects the closure and/or post closure care.	a) Was an updated Closure Plan required during this reporting period (Y/N)?: <u>N</u> b) Is an updated Closure Plan attached herein (Y/N)? <u>N</u>	

12	22.423(b)(12) 22.522(a)(11) 22.619(b)(12)	Other items that affect compliance. <i>Note: Include an ADEQ enforcement activity summary (solid waste, water, air, hazardous waste related) and, status of operating and permit fees. Also, include brief narrative concerning groundwater monitoring reports, landfill gas, leachate recirculation, alternate daily cover, etc...</i>	a) Are there current ADEQ enforcement actions (Y/N)? <u>N</u> b) Summary of enforcement actions: _____ c) Are operating and permit fees payments up-to-date (Y/N)? <u>Y</u> If not explain: _____ Additional Information: _____ d) Does the facility monitor groundwater (Y/N)? <u>Y</u> If so, is it detection monitoring or assessment monitoring? <u> </u> <i>The current groundwater monitoring system for the three Domtar landfills, including Lime Waste Landfill is comprised of five (5) monitoring wells (MW-2, MW-3R, MW-4, MW-5, and MW-6). As of November 2017, monitoring wells MW-2, MW-5 and MW-6 are sampled under an Assessment Monitoring Program and wells MW-3R (upgradient) and MW-4 are sampled under Detection Monitoring.</i> What is the groundwater analytical sampling frequency? <u>6</u> months	
			f) Does the facility collect landfill gas (Y/N)? <u>N</u> g) Does the facility have a Gas Monitoring Plan (Y/N)? <u>N</u> h) Does the facility have gas monitoring probes (Y/N)? <u>N</u> i) Does the facility use an alternate daily cover (ADC) (Y/N)? <u>N</u> If so, what type of ADC is used: _____ If so, list document id# approving ADC: <u>62879</u> j) Does the facility have a Liquid Waste Management (LWM) Plan (Y/N)? <u>N/A</u> If so, list document id# approving the LWM Plan: <u>N/A</u> k) Date and document id # of currently approved Operating Plan and Narrative: Date: <u>June 30, 2024</u> Doc#: <u>81250</u> l) Date and document id # for currently approved Closure/ Post Closure Plan: Date: <u>April 9, 1999</u> Doc#: <u>8591</u> m) Date and document id # of currently approved Permit Drawings: Date: <u>April 9, 1999</u> Doc#: <u>8591</u> n) Date and document id # of currently approved Design Narrative: Date: <u>April 9, 1999</u> Doc#: <u>8591</u>	
			o) Are weigh scales utilized at the landfill (Y/N)? <u>N</u> p) Does the final cap include a synthetic liner (Y/N)? <u>N</u>	

			q) Does the final cap include clay liner (Y/N)? <u>Y</u> r) Total current permitted landfill volume: <u>501,500</u> cubic yards	
13	22.423(b) 22.522(a) 22.619(b)	Certification of AEIR Report: "I have inspected the landfill site and have prepared this report to reflect operational compliance with permit conditions, permit plans, specifications, narrative, and all applicable regulations"	a) Arkansas Licensed Engineer: Sign: _____ Date: _____ b) License Number: <u>17690</u> c) Attach seal here:  	

Appendix A

Photos



Lime Waste Landfill – Top Deck, Looking South



Lime Waste Landfill – Southeast Slope



Lime Waste Landfill – Top Deck, Looking South

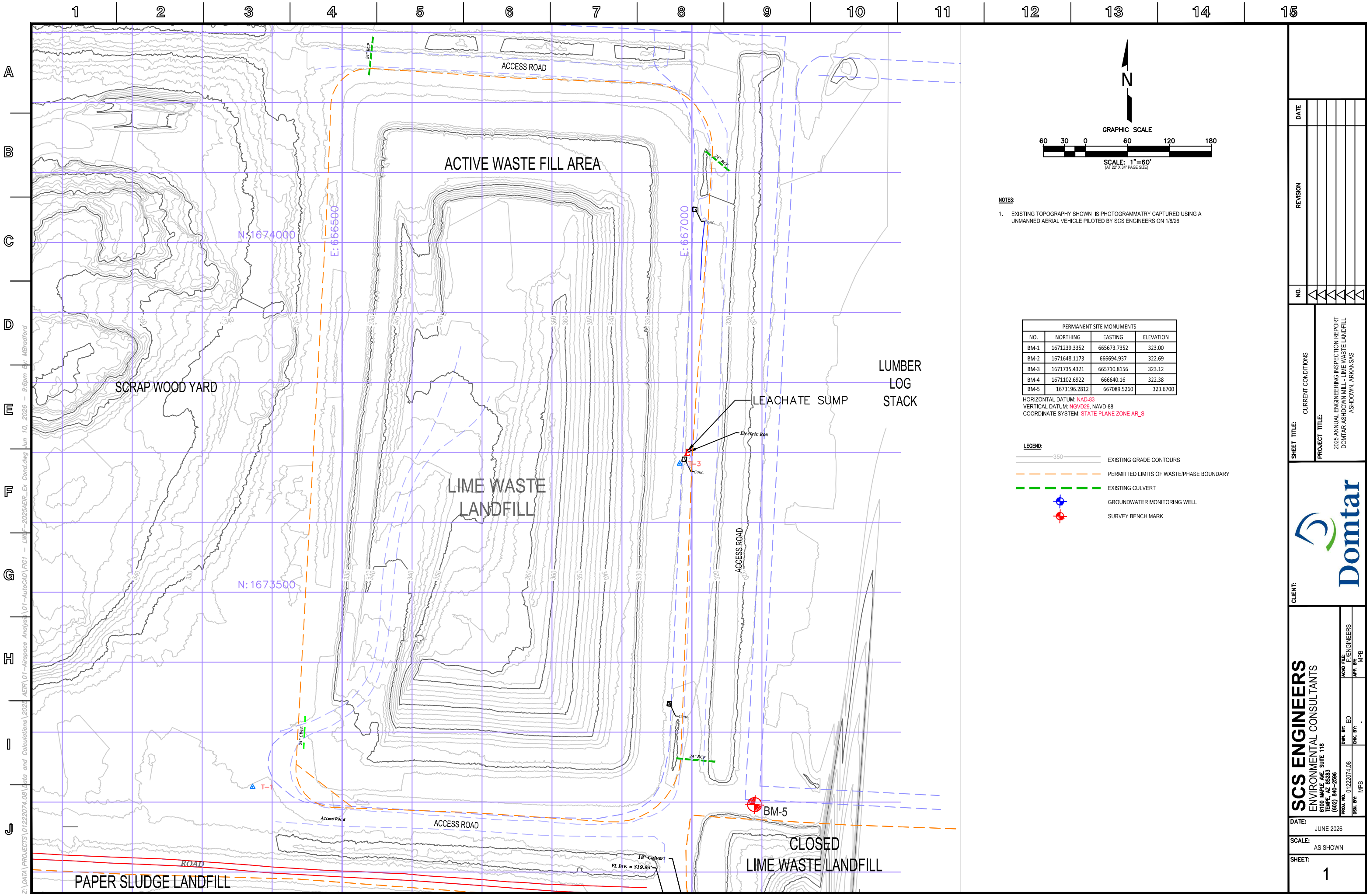


Lime Waste Landfill – Leachate Sump



Appendix B

Figures



Z:\DATA\PROJECTS\01222074_08\01-Data and Calculations\2025\AER\01-Airspace Analysis\01-AutoCAD\FIG1 - LIME-2025AER-Ex Cond.dwg Jun 10, 2026 - 9:56pm E: MBradford

SCS ENGINEERS

ENVIRONMENTAL CONSULTANTS

6100 MAPLE AVE. SUITE 118
TEMPE, AZ 85283
(602) 840-2596

PROJ. NO. 01222074_08

DATE 07/22/2024

DRAWN BY MPB

CHECKED BY

ACAD FILE: F:\ENGINEERS

APP. BY MPB

DATE: JUNE 2026

SCALE: AS SHOWN

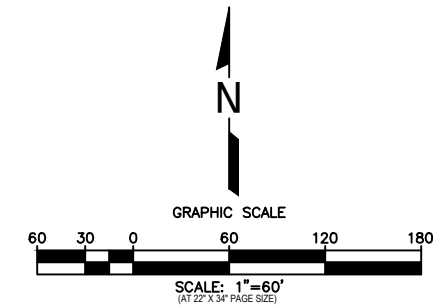
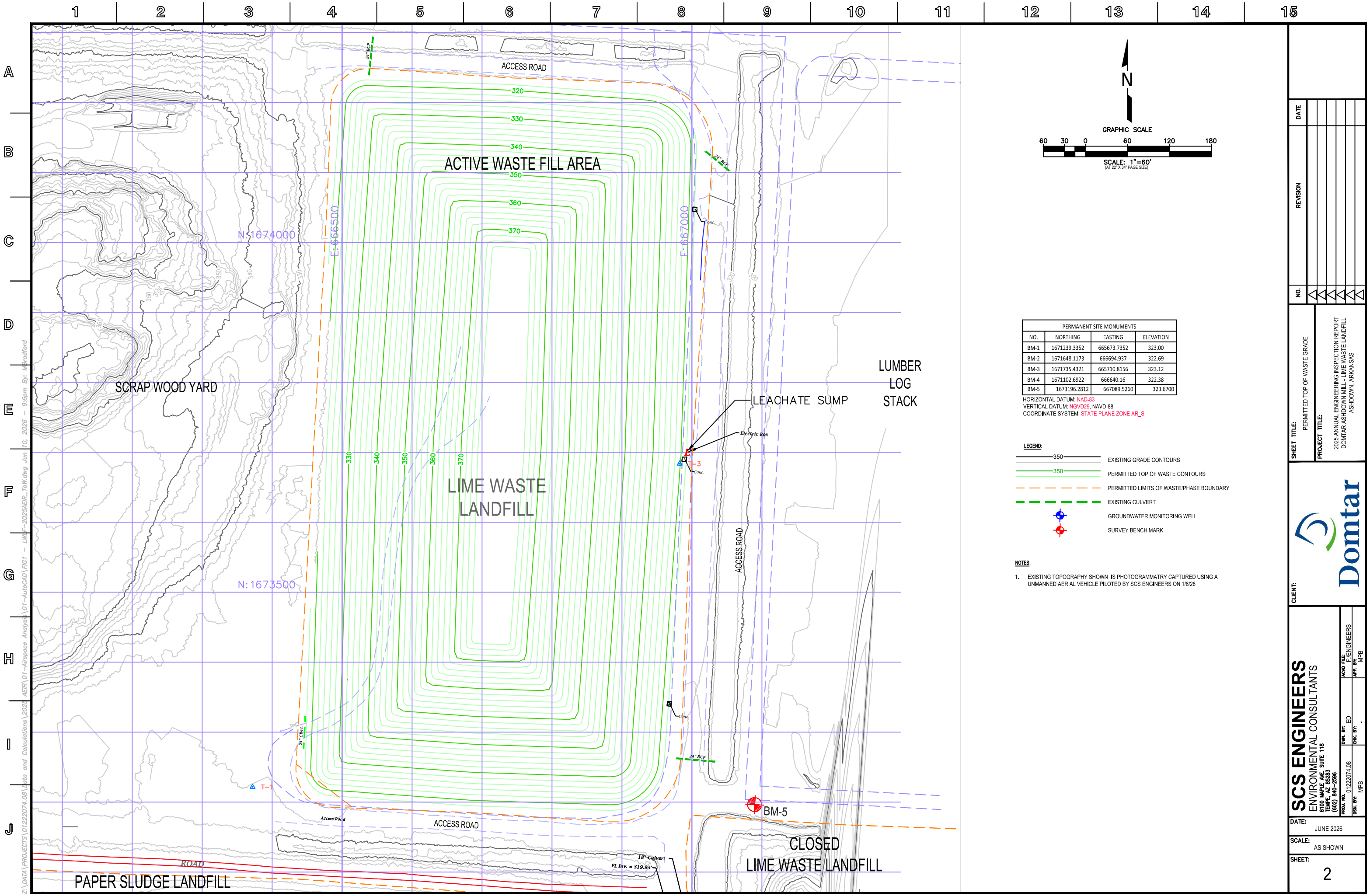
SHEET: 1

CLIENT:

SHEET TITLE: CURRENT CONDITIONS

PROJECT TITLE: 2025 ANNUAL ENGINEERING INSPECTION REPORT
DOMTAR ASHDOWN MILL - LIME WASTE LANDFILL
ASHDOWN, ARKANSAS

NO.	REVISION	DATE



PERMANENT SITE MONUMENTS			
NO.	NORTHING	EASTING	ELEVATION
BM-1	1671239.3352	665673.7352	323.00
BM-2	1671648.1173	666694.937	322.69
BM-3	1671735.4321	665710.8156	323.12
BM-4	1671102.6922	666640.16	322.38
BM-5	1673196.2812	667089.5260	323.6700

HORIZONTAL DATUM: NAD-83
VERTICAL DATUM: NGVD29, NAVD-88
COORDINATE SYSTEM: STATE PLANE ZONE AR_S

- LEGEND:**
- 350 — EXISTING GRADE CONTOURS
 - 350 — PERMITTED TOP OF WASTE CONTOURS
 - - - PERMITTED LIMITS OF WASTE/PHASE BOUNDARY
 - - - EXISTING CULVERT
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊕ SURVEY BENCH MARK

- NOTES:**
- EXISTING TOPOGRAPHY SHOWN IS PHOTOGRAMMATRY CAPTURED USING A UNMANNED AERIAL VEHICLE PILOTED BY SCS ENGINEERS ON 1/8/26

DATE		REVISION		NO.	
SHEET TITLE:		PERMITTED TOP OF WASTE GRADE		PROJECT TITLE:	
CLIENT:		SCS ENGINEERS		DOMTAR	
ENVIRONMENTAL CONSULTANTS		6100 MAPLE AVE. SUITE 118		2025 ANNUAL ENGINEERING INSPECTION REPORT	
TEMP, AZ 85283		PRJ. NO. 01222074.08		DOMTAR ASHDOWN MILL - LIME WASTE LANDFILL	
(602) 840-2596		DWN. BY: ED		ASHDOWN, ARKANSAS	
DATE: JUNE 2026		CHK. BY: MPB			
SCALE: AS SHOWN					
SHEET: 2					



Appendix C

Leachate Lab Results

SCS Engineers - Little Rock, AR

Sample Delivery Group: L1858095
Samples Received: 05/13/2025
Project Number:
Description: Domtar Ashdown Class 3N Landfill

Report To: Stacie Whitmer
9780 Richardson Dr.
North Little Rock, AR 72113

Entire Report Reviewed By:



Mark W. Beasley
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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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

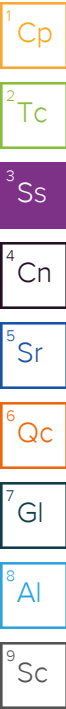
MW-2 L1858095-01

Collected by
Matt Stevener

Collected date/time
05/12/25 09:24

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	1	05/14/25 23:00	05/14/25 23:00	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	2	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:50	05/14/25 00:50	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 06:03	05/18/25 06:03	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 06:15	05/18/25 06:15	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 06:58	05/15/25 06:58	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 02:43	JDB	Mt. Juliet, TN



MW-5 L1858095-02

Collected by
Matt Stevener

Collected date/time
05/12/25 10:11

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	1	05/14/25 23:15	05/14/25 23:15	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	1	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:51	05/14/25 00:51	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 06:28	05/18/25 06:28	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 06:41	05/18/25 06:41	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 08:15	05/15/25 08:15	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 02:56	JDB	Mt. Juliet, TN

MW-6 L1858095-03

Collected by
Matt Stevener

Collected date/time
05/12/25 08:36

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	1	05/14/25 23:16	05/14/25 23:16	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	1	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:51	05/14/25 00:51	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 06:54	05/18/25 06:54	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 07:07	05/18/25 07:07	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 09:01	05/15/25 09:01	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 03:00	JDB	Mt. Juliet, TN

SLUDGE LEACHATE L1858095-04

Collected by
Matt Stevener

Collected date/time
05/12/25 13:20

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	1	05/14/25 23:19	05/14/25 23:19	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	1	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:51	05/14/25 00:51	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 07:19	05/18/25 07:19	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 07:32	05/18/25 07:32	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	10	05/15/25 09:30	05/15/25 09:30	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2519775	9	05/21/25 10:27	05/21/25 19:55	LD	Mt. Juliet, TN

SAMPLE SUMMARY

LIME LEACHATE L1858095-05

Collected by
Matt Stevener

Collected date/time
05/12/25 12:50

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	100	05/14/25 23:21	05/14/25 23:21	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	10	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	5	05/14/25 00:51	05/14/25 00:51	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	10000	05/18/25 07:45	05/18/25 07:45	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	100	05/15/25 09:53	05/15/25 09:53	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2519775	45	05/21/25 10:27	05/21/25 20:23	LD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUPLICATE L1858095-06

Collected by
Matt Stevener

Collected date/time
05/12/25 08:41

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2514101	1	05/14/25 23:23	05/14/25 23:23	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514009	1	05/13/25 15:17	05/13/25 21:15	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:51	05/14/25 00:51	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 07:58	05/18/25 07:58	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 08:36	05/18/25 08:36	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2517450	1	05/18/25 08:54	05/18/25 08:54	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 03:03	JDB	Mt. Juliet, TN

FIELD BLANK L1858095-07

Collected by
Matt Stevener

Collected date/time
05/12/25 12:24

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514493	1	05/14/25 08:58	05/14/25 12:18	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:52	05/14/25 00:52	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 08:49	05/18/25 08:49	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 10:33	05/15/25 10:33	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 03:06	JDB	Mt. Juliet, TN

MW-3R L1858095-08

Collected by
Matt Stevener

Collected date/time
05/12/25 12:19

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514493	1	05/14/25 08:58	05/14/25 12:19	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:52	05/14/25 00:52	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514074	1	05/18/25 00:10	05/18/25 00:10	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 10:53	05/15/25 10:53	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 03:16	JDB	Mt. Juliet, TN

MW-4 L1858095-09

Collected by
Matt Stevener

Collected date/time
05/12/25 10:52

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514303	1	05/13/25 22:51	05/15/25 10:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514493	1	05/14/25 08:58	05/14/25 12:19	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2514281	1	05/14/25 00:53	05/14/25 00:53	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514074	1	05/18/25 01:01	05/18/25 01:01	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2514107	1	05/15/25 11:17	05/15/25 11:17	TMH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-4 L1858095-09

Collected by
Matt Stevener

Collected date/time
05/12/25 10:52

Received date/time
05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2516889	1	05/20/25 08:34	05/21/25 03:19	JDB	Mt. Juliet, TN

¹Cp ${}^2\text{Tc}$ 3S_1 ${}^4\text{Cn}$ ^5Sr ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.

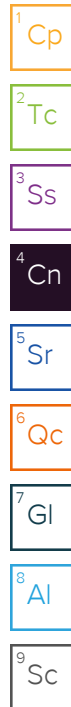


Mark W. Beasley
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1858095-04	SLUDGE LEACHATE	4500S2 D-2011, 9060A
L1858095-05	LIME LEACHATE	410.4, 353.2, 9060A, 6020B



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1120000		20000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	05/14/2025 23:00	WG2514101

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		28200	40000	2	05/13/2025 21:15	WG2514009

Sample Narrative:

L1858095-01 WG2514009: Dilution due to matrix.

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:50	WG2514281

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	298000		2740	5000	5	05/18/2025 06:15	WG2514071
Fluoride	218		76.1	150	1	05/18/2025 06:03	WG2514071
Sulfate	77100		637	5000	1	05/18/2025 06:03	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	531	J	495	1000	1	05/15/2025 06:58	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	1.23	J	0.120	2.00	1	05/21/2025 02:43	WG2516889
Barium	839		0.500	2.00	1	05/21/2025 02:43	WG2516889
Cadmium	U		0.120	1.00	1	05/21/2025 02:43	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 02:43	WG2516889
Iron	34.3	J	22.6	100	1	05/21/2025 02:43	WG2516889
Lead	U		0.500	2.00	1	05/21/2025 02:43	WG2516889
Manganese	3.58	J	0.700	5.00	1	05/21/2025 02:43	WG2516889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	846000		20000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	05/14/2025 23:15	WG2514101

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		14100	20000	1	05/13/2025 21:15	WG2514009

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:51	WG2514281

Wet Chemistry by Method 9056A

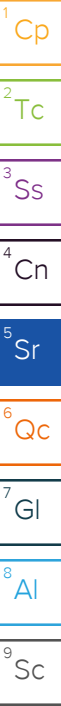
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	165000		2740	5000	5	05/18/2025 06:41	WG2514071
Fluoride	208		76.1	150	1	05/18/2025 06:28	WG2514071
Sulfate	52800		637	5000	1	05/18/2025 06:28	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	949	J	495	1000	1	05/15/2025 08:15	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	0.627	J	0.120	2.00	1	05/21/2025 02:56	WG2516889
Barium	781		0.500	2.00	1	05/21/2025 02:56	WG2516889
Cadmium	U		0.120	1.00	1	05/21/2025 02:56	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 02:56	WG2516889
Iron	U		22.6	100	1	05/21/2025 02:56	WG2516889
Lead	U		0.500	2.00	1	05/21/2025 02:56	WG2516889
Manganese	5.73		0.700	5.00	1	05/21/2025 02:56	WG2516889



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1330000		25000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	05/14/2025 23:16	WG2514101

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	17400	<u>J</u>	14100	20000	1	05/13/2025 21:15	WG2514009

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:51	WG2514281

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	264000		2740	5000	5	05/18/2025 07:07	WG2514071
Fluoride	176		76.1	150	1	05/18/2025 06:54	WG2514071
Sulfate	74700		637	5000	1	05/18/2025 06:54	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1990		495	1000	1	05/15/2025 09:01	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	0.944	<u>J</u>	0.120	2.00	1	05/21/2025 03:00	WG2516889
Barium	319		0.500	2.00	1	05/21/2025 03:00	WG2516889
Cadmium	U		0.120	1.00	1	05/21/2025 03:00	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 03:00	WG2516889
Iron	U		22.6	100	1	05/21/2025 03:00	WG2516889
Lead	U		0.500	2.00	1	05/21/2025 03:00	WG2516889
Manganese	178		0.700	5.00	1	05/21/2025 03:00	WG2516889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

SLUDGE LEACHATE

Collected date/time: 05/12/25 13:20

SAMPLE RESULTS - 04

L1858095

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3330000		50000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	126	J	43.5	200	1	05/14/2025 23:19	WG2514101

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	522000		14100	20000	1	05/13/2025 21:15	WG2514009

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:51	WG2514281

Wet Chemistry by Method 9056A

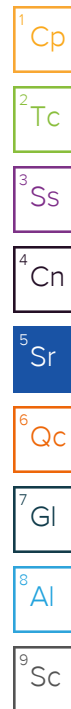
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	110000		2740	5000	5	05/18/2025 07:32	WG2514071
Fluoride	303		76.1	150	1	05/18/2025 07:19	WG2514071
Sulfate	7740		637	5000	1	05/18/2025 07:19	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	175000		4950	10000	10	05/15/2025 09:30	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	17.1	J	1.08	18.0	9	05/21/2025 19:55	WG2519775
Barium	959		4.50	18.0	9	05/21/2025 19:55	WG2519775
Cadmium	U		1.08	9.00	9	05/21/2025 19:55	WG2519775
Chromium	10.9	J	8.10	18.0	9	05/21/2025 19:55	WG2519775
Iron	11800		203	900	9	05/21/2025 19:55	WG2519775
Lead	U		4.50	18.0	9	05/21/2025 19:55	WG2519775
Manganese	696		6.30	45.0	9	05/21/2025 19:55	WG2519775



LIME LEACHATE

Collected date/time: 05/12/25 12:50

SAMPLE RESULTS - 05

L1858095

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	67600000		1000000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		4350	20000	100	05/14/2025 23:21	WG2514101

Sample Narrative:

L1858095-05 WG2514101: Dilution due to matrix.

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	3070000		141000	200000	10	05/13/2025 21:15	WG2514009

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		128	250	5	05/14/2025 00:51	WG2514281

Sample Narrative:

L1858095-05 WG2514281: Dilution due to matrix.

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		5470000	10000000	10000	05/18/2025 07:45	WG2514071
Fluoride	U		761000	1500000	10000	05/18/2025 07:45	WG2514071
Sulfate	7630000	J	6370000	50000000	10000	05/18/2025 07:45	WG2514071

Sample Narrative:

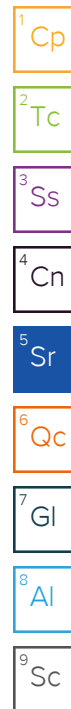
L1858095-05 WG2514071: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	167000		49500	100000	100	05/15/2025 09:53	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	378		5.40	90.0	45	05/21/2025 20:23	WG2519775
Barium	174		22.5	90.0	45	05/21/2025 20:23	WG2519775
Cadmium	U		5.40	45.0	45	05/21/2025 20:23	WG2519775
Chromium	U		40.5	90.0	45	05/21/2025 20:23	WG2519775
Iron	U		1020	4500	45	05/21/2025 20:23	WG2519775
Lead	U		22.5	90.0	45	05/21/2025 20:23	WG2519775
Manganese	226		31.5	225	45	05/21/2025 20:23	WG2519775



DUPLICATE

Collected date/time: 05/12/25 08:41

SAMPLE RESULTS - 06

L1858095

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1300000		25000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	05/14/2025 23:23	WG2514101

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	17800	J	14100	20000	1	05/13/2025 21:15	WG2514009

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:51	WG2514281

Wet Chemistry by Method 9056A

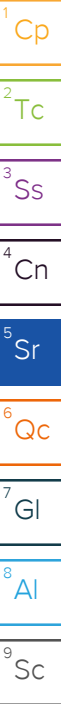
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	265000		2740	5000	5	05/18/2025 08:36	WG2514071
Fluoride	139	J	76.1	150	1	05/18/2025 07:58	WG2514071
Sulfate	73700		637	5000	1	05/18/2025 07:58	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3830		495	1000	1	05/18/2025 08:54	WG2517450

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	0.998	J	0.120	2.00	1	05/21/2025 03:03	WG2516889
Barium	312		0.500	2.00	1	05/21/2025 03:03	WG2516889
Cadmium	U		0.120	1.00	1	05/21/2025 03:03	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 03:03	WG2516889
Iron	U		22.6	100	1	05/21/2025 03:03	WG2516889
Lead	U		0.500	2.00	1	05/21/2025 03:03	WG2516889
Manganese	175		0.700	5.00	1	05/21/2025 03:03	WG2516889



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	15400	J	14100	20000	1	05/14/2025 12:18	WG2514493

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:52	WG2514281

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	U		547	1000	1	05/18/2025 08:49	WG2514071
Fluoride	U		76.1	150	1	05/18/2025 08:49	WG2514071
Sulfate	U		637	5000	1	05/18/2025 08:49	WG2514071

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	05/15/2025 10:33	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	U		0.500	2.00	1	05/21/2025 03:06	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 03:06	WG2516889
Iron	U		22.6	100	1	05/21/2025 03:06	WG2516889
Manganese	0.865	J	0.700	5.00	1	05/21/2025 03:06	WG2516889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	257000		10000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		14100	20000	1	05/14/2025 12:19	WG2514493

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:52	WG2514281

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	11300		547	1000	1	05/18/2025 00:10	WG2514074
Fluoride	193		76.1	150	1	05/18/2025 00:10	WG2514074
Sulfate	1200	J	637	5000	1	05/18/2025 00:10	WG2514074

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	U		495	1000	1	05/15/2025 10:53	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	377		0.500	2.00	1	05/21/2025 03:16	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 03:16	WG2516889
Iron	641		22.6	100	1	05/21/2025 03:16	WG2516889
Manganese	191		0.700	5.00	1	05/21/2025 03:16	WG2516889

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	848000		20000	1	05/15/2025 10:17	WG2514303

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	28100		14100	20000	1	05/14/2025 12:19	WG2514493

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	05/14/2025 00:53	WG2514281

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	65900	J6	547	1000	1	05/18/2025 01:01	WG2514074
Fluoride	211		76.1	150	1	05/18/2025 01:01	WG2514074
Sulfate	27100		637	5000	1	05/18/2025 01:01	WG2514074

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5220		495	1000	1	05/15/2025 11:17	WG2514107

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	586		0.500	2.00	1	05/21/2025 03:19	WG2516889
Chromium	U		0.900	2.00	1	05/21/2025 03:19	WG2516889
Iron	691		22.6	100	1	05/21/2025 03:19	WG2516889
Manganese	62.3		0.700	5.00	1	05/21/2025 03:19	WG2516889

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Method Blank (MB)

(MB) R4216408-1 05/15/25 10:17

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U	⌵	10000	10000

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1857986-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857986-01 05/15/25 10:17 • (DUP) R4216408-3 05/15/25 10:17

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	414000	414000	1	0.000		10

L1858143-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1858143-06 05/15/25 10:17 • (DUP) R4216408-4 05/15/25 10:17

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

Laboratory Control Sample (LCS)

(LCS) R4216408-2 05/15/25 10:17

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8410000	95.6	90.0-110	

Method Blank (MB)

(MB) R4214945-1 05/14/25 22:05

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4214945-2 05/14/25 22:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2410	96.6	90.0-110	

L1857858-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857858-02 05/14/25 22:09 • (MS) R4214945-3 05/14/25 22:11 • (MSD) R4214945-4 05/14/25 22:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2340	2400	93.5	96.1	1	90.0-110			2.74	20

L1857887-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857887-01 05/14/25 22:16 • (MS) R4214945-5 05/14/25 22:18 • (MSD) R4214945-6 05/14/25 22:20

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2370	2440	94.8	97.8	1	90.0-110			3.03	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4214234-9 05/13/25 21:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
COD	U		14100	20000

L1857930-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857930-01 05/13/25 21:13 • (DUP) R4214234-15 05/13/25 21:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
COD	8410000	8580000	20	2.04		20

L1857930-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1857930-02 05/13/25 21:13 • (DUP) R4214234-16 05/13/25 21:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
COD	12700000	12800000	20	0.215		20

Laboratory Control Sample (LCS)

(LCS) R4214234-10 05/13/25 21:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
COD	500000	496000	99.1	90.0-110	

L1857913-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857913-01 05/13/25 21:12 • (MS) R4214234-11 05/13/25 21:12 • (MSD) R4214234-12 05/13/25 21:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	49800	588000	586000	108	107	1	90.0-110			0.276	20

L1857925-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857925-01 05/13/25 21:13 • (MS) R4214234-13 05/13/25 21:13 • (MSD) R4214234-14 05/13/25 21:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	54500	597000	602000	108	110	1	90.0-110			0.966	20



Method Blank (MB)

(MB) R4214505-1 05/14/25 12:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
COD	U		14100	20000

L1858095-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-07 05/14/25 12:18 • (DUP) R4214505-7 05/14/25 12:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
COD	15400	15600	1	1.06	⌵	20

L1858143-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1858143-05 05/14/25 12:21 • (DUP) R4214505-8 05/14/25 12:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
COD	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4214505-2 05/14/25 12:16

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
COD	500000	501000	100	90.0-110	

L1857751-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857751-01 05/14/25 12:16 • (MS) R4214505-3 05/14/25 12:16 • (MSD) R4214505-4 05/14/25 12:16

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	19500	512000	509000	98.6	97.9	1	90.0-110			0.674	20

L1857752-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857752-01 05/14/25 12:17 • (MS) R4214505-5 05/14/25 12:17 • (MSD) R4214505-6 05/14/25 12:17

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	20300	514000	515000	98.8	98.8	1	90.0-110			0.0214	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4214299-1 05/14/25 00:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.5	50.0

L1857889-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1857889-04 05/14/25 00:46 • (DUP) R4214299-5 05/14/25 00:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

L1858095-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-08 05/14/25 00:52 • (DUP) R4214299-6 05/14/25 00:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4214299-2 05/14/25 00:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	442	88.4	85.0-115	

L1857889-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857889-03 05/14/25 00:46 • (MS) R4214299-3 05/14/25 00:46 • (MSD) R4214299-4 05/14/25 00:46

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	442	440	88.4	88.0	1	80.0-120			0.454	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4216416-1 05/17/25 23:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1858066-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-02 05/18/25 00:17 • (DUP) R4216416-3 05/18/25 00:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	27500	27300	1	0.715		15
Sulfate	33300	33000	1	0.863		15

L1858066-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-12 05/18/25 04:46 • (DUP) R4216416-6 05/18/25 04:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	22800	22200	1	2.73		15
Sulfate	7320	7210	1	1.53		15

Laboratory Control Sample (LCS)

(LCS) R4216416-2 05/17/25 23:39

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	40200	100	80.0-120	
Fluoride	8000	8600	107	80.0-120	
Sulfate	40000	40700	102	80.0-120	

L1858066-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858066-02 05/18/25 00:17 • (MS) R4216416-4 05/18/25 00:43 • (MSD) R4216416-5 05/18/25 00:55

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chloride	40000	27500	63200	62300	89.4	87.0	1	80.0-120			1.55	15
Sulfate	40000	33300	69600	68200	90.8	87.5	1	80.0-120			1.96	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1858066-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1858066-12 05/18/25 04:46 • (MS) R4216416-7 05/18/25 05:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40000	22800	59300	91.3	1	80.0-120	
Sulfate	40000	7320	46800	98.7	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4216383-1 05/17/25 23:44

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1858095-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-08 05/18/25 00:10 • (DUP) R4216383-3 05/18/25 00:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	11300	11400	1	0.214		15
Fluoride	193	204	1	5.09		15
Sulfate	1200	1100	1	8.08	U	15

L1858095-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-09 05/18/25 01:01 • (DUP) R4216383-6 05/18/25 01:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Chloride	65900	65400	1	0.715		15
Fluoride	211	186	1	12.6		15
Sulfate	27100	27000	1	0.427		15

Laboratory Control Sample (LCS)

(LCS) R4216383-2 05/17/25 23:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Chloride	40000	37800	94.4	80.0-120	
Fluoride	8000	8120	101	80.0-120	
Sulfate	40000	38500	96.2	80.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

L1858095-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858095-08 05/18/25 00:10 • (MS) R4216383-4 05/18/25 00:36 • (MSD) R4216383-5 05/18/25 00:48

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40000	11300	47900	48100	91.5	91.8	1	80.0-120			0.247	15
Fluoride	8000	193	8350	8410	102	103	1	80.0-120			0.765	15
Sulfate	40000	1200	39800	39800	96.4	96.4	1	80.0-120			0.00402	15

L1858095-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1858095-09 05/18/25 01:01 • (MS) R4216383-7 05/18/25 01:27

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40000	65900	91400	63.8	1	80.0-120	<u>J6</u>
Fluoride	8000	211	8450	103	1	80.0-120	
Sulfate	40000	27100	62100	87.7	1	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4215244-2 05/14/25 23:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1857986-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1857986-02 05/15/25 03:38 • (DUP) R4215244-5 05/15/25 03:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	1090	1090	1	0.000		20

L1858095-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-02 05/15/25 08:15 • (DUP) R4215244-8 05/15/25 08:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	949	882	1	7.25	⬇	20

Laboratory Control Sample (LCS)

(LCS) R4215244-1 05/14/25 23:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24700	98.8	80.0-120	

L1857986-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857986-01 05/15/25 02:22 • (MS) R4215244-3 05/15/25 02:48 • (MSD) R4215244-4 05/15/25 03:13

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	802	25500	25700	98.7	99.7	1	75.0-125			0.938	20

L1858095-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858095-01 05/15/25 06:58 • (MS) R4215244-6 05/15/25 07:25 • (MSD) R4215244-7 05/15/25 07:51

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	531	24900	24700	97.5	96.5	1	75.0-125			1.01	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4216458-2 05/18/25 07:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1858118-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1858118-06 05/18/25 10:24 • (DUP) R4216458-5 05/18/25 10:38

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	3580	3500	1	2.23		20

L1858118-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1858118-10 05/18/25 12:13 • (DUP) R4216458-8 05/18/25 12:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	11700	11900	1	1.36		20

Laboratory Control Sample (LCS)

(LCS) R4216458-1 05/18/25 07:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	24900	99.5	80.0-120	

L1858118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858118-05 05/18/25 09:34 • (MS) R4216458-3 05/18/25 09:50 • (MSD) R4216458-4 05/18/25 10:07

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	3480	28500	28600	100	100	1	75.0-125			0.351	20

L1858118-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858118-08 05/18/25 11:23 • (MS) R4216458-6 05/18/25 11:40 • (MSD) R4216458-7 05/18/25 11:58

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	12100	37600	37500	102	102	1	75.0-125			0.133	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4217969-1 05/21/25 02:36

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		0.120	2.00
Barium	U		0.500	2.00
Cadmium	U		0.120	1.00
Chromium	U		0.900	2.00
Iron	U		22.6	100
Lead	U		0.500	2.00
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4217969-2 05/21/25 02:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	50.0	49.2	98.3	80.0-120	
Barium	50.0	48.0	96.1	80.0-120	
Cadmium	50.0	50.6	101	80.0-120	
Chromium	50.0	50.1	100	80.0-120	
Iron	1000	981	98.1	80.0-120	
Lead	50.0	48.8	97.6	80.0-120	
Manganese	50.0	49.9	99.7	80.0-120	

L1858095-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858095-01 05/21/25 02:43 • (MS) R4217969-4 05/21/25 02:50 • (MSD) R4217969-5 05/21/25 02:53

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	1.23	49.7	50.8	97.0	99.1	1	75.0-125			2.09	20
Barium	50.0	839	874	874	68.9	69.0	1	75.0-125	V	V	0.00554	20
Cadmium	50.0	U	50.5	50.8	101	102	1	75.0-125			0.639	20
Chromium	50.0	U	49.2	50.1	98.5	100	1	75.0-125			1.77	20
Iron	1000	34.3	979	1000	94.4	96.5	1	75.0-125			2.13	20
Lead	50.0	U	48.2	49.1	96.4	98.3	1	75.0-125			1.93	20
Manganese	50.0	3.58	51.5	52.8	95.9	98.3	1	75.0-125			2.36	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4218402-1 05/21/25 19:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		0.120	2.00
Barium	U		0.500	2.00
Cadmium	U		0.120	1.00
Chromium	U		0.900	2.00
Iron	U		22.6	100
Lead	U		0.500	2.00
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4218402-2 05/21/25 19:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	50.0	52.3	105	80.0-120	
Barium	50.0	49.3	98.6	80.0-120	
Cadmium	50.0	52.9	106	80.0-120	
Chromium	50.0	54.5	109	80.0-120	
Iron	1000	1060	106	80.0-120	
Lead	50.0	51.1	102	80.0-120	
Manganese	50.0	53.2	106	80.0-120	

L1858519-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858519-03 05/21/25 19:24 • (MS) R4218402-4 05/21/25 19:30 • (MSD) R4218402-5 05/21/25 19:33

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	U	51.5	49.9	103	99.7	5	75.0-125			3.29	20
Barium	50.0	316	377	357	122	83.1	5	75.0-125			5.24	20
Cadmium	50.0	U	48.7	47.4	97.4	94.8	5	75.0-125			2.71	20
Chromium	50.0	U	48.2	49.1	96.3	98.1	5	75.0-125			1.86	20
Iron	1000	3370	4430	4260	106	88.9	5	75.0-125			3.88	20
Lead	50.0	U	47.6	46.4	95.3	92.8	5	75.0-125			2.67	20
Manganese	50.0	118	172	168	107	99.1	5	75.0-125			2.37	20

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.

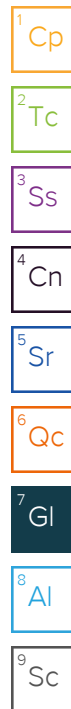
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
U	Not detected at the Reporting Limit (or MDL where applicable).
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.
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

J	The identification of the analyte is acceptable; the reported value is an estimate.
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

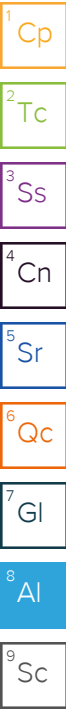
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



SCS Engineers - Little Rock, AR

Sample Delivery Group: L1918483
Samples Received: 11/14/2025
Project Number:
Description: Domtar Ashdown Class 3N Landfill

Report To: Stacie Whitmer
9780 Richardson Dr.
North Little Rock, AR 72113

Entire Report Reviewed By:



Mark W. Beasley
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

MW-2 L1918483-01

Collected by
Matt Stevener

Collected date/time
11/13/25 11:15

Received date/time
11/14/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2642424	1	11/20/25 22:21	11/20/25 22:21	CAT	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645020	5	11/21/25 08:34	11/21/25 15:55	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:46	11/17/25 16:46	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 06:56	11/19/25 06:56	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	5	11/19/25 07:28	11/19/25 07:28	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/21/25 21:43	11/21/25 21:43	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 12:41	JPD	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-5 L1918483-02

Collected by
Matt Stevener

Collected date/time
11/13/25 11:50

Received date/time
11/14/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2642424	1	11/20/25 22:23	11/20/25 22:23	CAT	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	5	11/21/25 08:33	11/21/25 15:59	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:46	11/17/25 16:46	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 07:38	11/19/25 07:38	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	5	11/19/25 07:49	11/19/25 07:49	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/21/25 22:22	11/21/25 22:22	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 12:44	JPD	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-6 L1918483-03

Collected by
Matt Stevener

Collected date/time
11/13/25 10:40

Received date/time
11/14/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2642424	1	11/20/25 22:38	11/20/25 22:38	CAT	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	5	11/21/25 08:33	11/21/25 15:59	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:46	11/17/25 16:46	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 07:59	11/19/25 07:59	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	5	11/19/25 08:10	11/19/25 08:10	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/21/25 22:43	11/21/25 22:43	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 12:47	JPD	Mt. Juliet, TN

SLUDGE LEACHATE L1918483-04

Collected by
Matt Stevener

Collected date/time
11/13/25 12:35

Received date/time
11/14/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2646983	1	11/26/25 08:52	11/26/25 08:52	FNR	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	5	11/21/25 08:33	11/21/25 15:59	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:46	11/17/25 16:46	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 08:21	11/19/25 08:21	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	5	11/19/25 08:31	11/19/25 08:31	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	10	11/21/25 23:07	11/21/25 23:07	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 13:54	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	5	11/19/25 14:57	12/06/25 13:05	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

LIME LEACHATE L1918483-05

				Collected by Matt Stevener	Collected date/time 11/13/25 13:10	Received date/time 11/14/25 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2642424	20	11/20/25 22:42	11/20/25 22:42	CAT	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	10	11/21/25 08:33	11/21/25 16:00	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	10	11/17/25 16:46	11/17/25 16:46	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	10000	11/19/25 08:42	11/19/25 08:42	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	100	11/21/25 23:28	11/21/25 23:28	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	9	11/19/25 14:57	12/06/25 13:08	JPD	Mt. Juliet, TN

DUPLICATE L1918483-06

				Collected by Matt Stevener	Collected date/time 11/13/25 10:45	Received date/time 11/14/25 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2642424	1	11/20/25 22:44	11/20/25 22:44	CAT	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	2	11/21/25 08:33	11/21/25 16:00	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:47	11/17/25 16:47	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 08:52	11/19/25 08:52	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	5	11/19/25 09:03	11/19/25 09:03	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/21/25 23:48	11/21/25 23:48	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 14:00	JPD	Mt. Juliet, TN

MW-3R L1918483-07

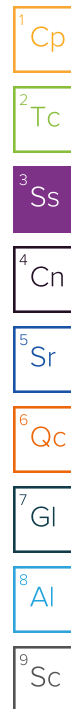
				Collected by Matt Stevener	Collected date/time 11/13/25 09:57	Received date/time 11/14/25 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	1	11/21/25 08:33	11/21/25 16:00	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:47	11/17/25 16:47	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 09:35	11/19/25 09:35	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/22/25 00:07	11/22/25 00:07	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 13:30	JPD	Mt. Juliet, TN

MW-4R L1918483-08

				Collected by Matt Stevener	Collected date/time 11/13/25 12:14	Received date/time 11/14/25 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	1	11/21/25 08:33	11/21/25 16:01	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2641181	1	11/17/25 16:48	11/17/25 16:48	DMB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 10:17	11/19/25 10:17	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/22/25 00:29	11/22/25 00:29	TMH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 13:33	JPD	Mt. Juliet, TN

FIELD BLANK L1918483-09

				Collected by Matt Stevener	Collected date/time 11/13/25 12:19	Received date/time 11/14/25 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2642206	1	11/17/25 19:55	11/18/25 16:37	AMG	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2645023	1	11/21/25 08:33	11/21/25 16:01	DMB	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG2643130	1	11/19/25 00:43	11/19/25 00:43	CJW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2640710	1	11/19/25 10:51	11/19/25 10:51	SAR	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2644827	1	11/22/25 00:48	11/22/25 00:48	TMH	Mt. Juliet, TN



SAMPLE SUMMARY

FIELD BLANK L1918483-09

Collected by
Matt Stevener

Collected date/time
11/13/25 12:19

Received date/time
11/14/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2641807	1	11/19/25 14:57	12/06/25 13:36	JPD	Mt. Juliet, TN

¹Cp ${}^2\text{Tc}$ 3S_1 ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.

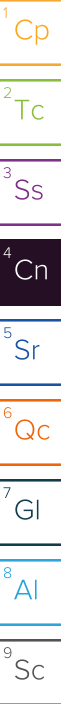


Mark W. Beasley
Project Manager

Sample Delivery Group (SDG) Narrative

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

Lab Sample ID	Project Sample ID	Method
L1918483-04	SLUDGE LEACHATE	9060A
L1918483-05	LIME LEACHATE	353.2, 410.4, 9060A, 6020B



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1040000		25000	1	11/18/2025 16:37	WG2642206

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	11/20/2025 22:21	WG2642424

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		70500	100000	5	11/21/2025 15:55	WG2645020

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:46	WG2641181

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	285000		2740	5000	5	11/19/2025 07:28	WG2640710
Fluoride	178		76.1	150	1	11/19/2025 06:56	WG2640710
Sulfate	74400		637	5000	1	11/19/2025 06:56	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	500	J P1	495	1000	1	11/21/2025 21:43	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	1.19	J	0.120	2.00	1	12/06/2025 12:41	WG2641807
Barium	750		0.500	2.00	1	12/06/2025 12:41	WG2641807
Cadmium	U		0.120	1.00	1	12/06/2025 12:41	WG2641807
Chromium	1.43	J	0.900	2.00	1	12/06/2025 12:41	WG2641807
Iron	31.8	J	22.6	100	1	12/06/2025 12:41	WG2641807
Lead	U		0.500	2.00	1	12/06/2025 12:41	WG2641807
Manganese	1.79	J	0.700	5.00	1	12/06/2025 12:41	WG2641807

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	794000		20000	1	11/18/2025 16:37	WG2642206

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	11/20/2025 22:23	WG2642424

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		70500	100000	5	11/21/2025 15:59	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:46	WG2641181

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	158000		2740	5000	5	11/19/2025 07:49	WG2640710
Fluoride	192		76.1	150	1	11/19/2025 07:38	WG2640710
Sulfate	49200		637	5000	1	11/19/2025 07:38	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	881	J	495	1000	1	11/21/2025 22:22	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	0.567	J	0.120	2.00	1	12/06/2025 12:44	WG2641807
Barium	733		0.500	2.00	1	12/06/2025 12:44	WG2641807
Cadmium	U		0.120	1.00	1	12/06/2025 12:44	WG2641807
Chromium	U		0.900	2.00	1	12/06/2025 12:44	WG2641807
Iron	U		22.6	100	1	12/06/2025 12:44	WG2641807
Lead	U		0.500	2.00	1	12/06/2025 12:44	WG2641807
Manganese	4.94	J	0.700	5.00	1	12/06/2025 12:44	WG2641807

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1240000		50000	1	11/18/2025 16:37	WG2642206

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	11/20/2025 22:38	WG2642424

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		70500	100000	5	11/21/2025 15:59	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:46	WG2641181

Wet Chemistry by Method 9056A

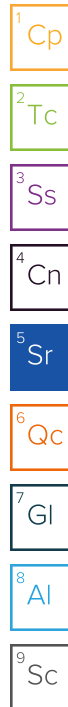
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	251000		2740	5000	5	11/19/2025 08:10	WG2640710
Fluoride	174		76.1	150	1	11/19/2025 07:59	WG2640710
Sulfate	70700		637	5000	1	11/19/2025 07:59	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1620		495	1000	1	11/21/2025 22:43	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	0.979	J	0.120	2.00	1	12/06/2025 12:47	WG2641807
Barium	296		0.500	2.00	1	12/06/2025 12:47	WG2641807
Cadmium	U		0.120	1.00	1	12/06/2025 12:47	WG2641807
Chromium	U		0.900	2.00	1	12/06/2025 12:47	WG2641807
Iron	U		22.6	100	1	12/06/2025 12:47	WG2641807
Lead	U		0.500	2.00	1	12/06/2025 12:47	WG2641807
Manganese	170		0.700	5.00	1	12/06/2025 12:47	WG2641807



SLUDGE LEACHATE

Collected date/time: 11/13/25 12:35

SAMPLE RESULTS - 04

L1918483

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3120000		100000	1	11/18/2025 16:37	WG2642206

1
Cp2
Tc

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	44.0	J	43.5	200	1	11/26/2025 08:52	WG2646983

3
Ss4
Cn

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	698000		70500	100000	5	11/21/2025 15:59	WG2645023

5
Sr6
Qc

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:46	WG2641181

7
Gl8
Al

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	142000		2740	5000	5	11/19/2025 08:31	WG2640710
Fluoride	455		76.1	150	1	11/19/2025 08:21	WG2640710
Sulfate	2910	J	637	5000	1	11/19/2025 08:21	WG2640710

9
Sc

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	210000		4950	10000	10	11/21/2025 23:07	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	26.2		0.120	2.00	1	12/06/2025 13:54	WG2641807
Barium	1440		0.500	2.00	1	12/06/2025 13:54	WG2641807
Cadmium	U		0.120	1.00	1	12/06/2025 13:54	WG2641807
Chromium	9.78		0.900	2.00	1	12/06/2025 13:54	WG2641807
Iron	14700		113	500	5	12/06/2025 13:05	WG2641807
Lead	1.79	J	0.500	2.00	1	12/06/2025 13:54	WG2641807
Manganese	938		0.700	5.00	1	12/06/2025 13:54	WG2641807

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Dissolved Solids	92700000		1000000	1	11/18/2025 16:37	WG2642206

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	1150	J	870	4000	20	11/20/2025 22:42	WG2642424

Sample Narrative:

L1918483-05 WG2642424: dilution due to sample matrix

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
COD	4840000		141000	200000	10	11/21/2025 16:00	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Sulfide	4340		255	500	10	11/17/2025 16:46	WG2641181

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		5470000	10000000	10000	11/19/2025 08:42	WG2640710
Fluoride	U		761000	1500000	10000	11/19/2025 08:42	WG2640710
Sulfate	U		6370000	50000000	10000	11/19/2025 08:42	WG2640710

Sample Narrative:

L1918483-05 WG2640710: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	220000		49500	100000	100	11/21/2025 23:28	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	530		1.08	18.0	9	12/06/2025 13:08	WG2641807
Barium	229		4.50	18.0	9	12/06/2025 13:08	WG2641807
Cadmium	U		1.08	9.00	9	12/06/2025 13:08	WG2641807
Chromium	8.34	J	8.10	18.0	9	12/06/2025 13:08	WG2641807
Iron	1100		203	900	9	12/06/2025 13:08	WG2641807
Lead	U		4.50	18.0	9	12/06/2025 13:08	WG2641807
Manganese	179		6.30	45.0	9	12/06/2025 13:08	WG2641807

DUPLICATE

Collected date/time: 11/13/25 10:45

SAMPLE RESULTS - 06

L1918483

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1240000		25000	1	11/18/2025 16:37	WG2642206

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	11/20/2025 22:44	WG2642424

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		28200	40000	2	11/21/2025 16:00	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:47	WG2641181

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	257000		2740	5000	5	11/19/2025 09:03	WG2640710
Fluoride	127	J	76.1	150	1	11/19/2025 08:52	WG2640710
Sulfate	71700		637	5000	1	11/19/2025 08:52	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1620		495	1000	1	11/21/2025 23:48	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	1.15	J	0.120	2.00	1	12/06/2025 14:00	WG2641807
Barium	340		0.500	2.00	1	12/06/2025 14:00	WG2641807
Cadmium	U		0.120	1.00	1	12/06/2025 14:00	WG2641807
Chromium	0.919	J	0.900	2.00	1	12/06/2025 14:00	WG2641807
Iron	U		22.6	100	1	12/06/2025 14:00	WG2641807
Lead	U		0.500	2.00	1	12/06/2025 14:00	WG2641807
Manganese	202		0.700	5.00	1	12/06/2025 14:00	WG2641807

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	258000		10000	1	11/18/2025 16:37	WG2642206

Wet Chemistry by Method 410.4

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
COD	U	J5	14100	20000	1	11/21/2025 16:00	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfide	U		25.5	50.0	1	11/17/2025 16:47	WG2641181

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	12900		547	1000	1	11/19/2025 09:35	WG2640710
Fluoride	197		76.1	150	1	11/19/2025 09:35	WG2640710
Sulfate	2090	J	637	5000	1	11/19/2025 09:35	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
TOC (Total Organic Carbon)	U		495	1000	1	11/22/2025 00:07	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	433		0.500	2.00	1	12/06/2025 13:30	WG2641807
Chromium	2.19		0.900	2.00	1	12/06/2025 13:30	WG2641807
Iron	872		22.6	100	1	12/06/2025 13:30	WG2641807
Manganese	284		0.700	5.00	1	12/06/2025 13:30	WG2641807

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	796000		20000	1	11/18/2025 16:37	WG2642206

¹ Cp

² Tc

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	31300		14100	20000	1	11/21/2025 16:01	WG2645023

³ Ss

⁴ Cn

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Sulfide	U		25.5	50.0	1	11/17/2025 16:48	WG2641181

⁵ Sr

⁶ Qc

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	53100	J6	547	1000	1	11/19/2025 10:17	WG2640710
Fluoride	159		76.1	150	1	11/19/2025 10:17	WG2640710
Sulfate	21700		637	5000	1	11/19/2025 10:17	WG2640710

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	6470		495	1000	1	11/22/2025 00:29	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Barium	639		0.500	2.00	1	12/06/2025 13:33	WG2641807
Chromium	1.21	J	0.900	2.00	1	12/06/2025 13:33	WG2641807
Iron	975		22.6	100	1	12/06/2025 13:33	WG2641807
Manganese	67.2		0.700	5.00	1	12/06/2025 13:33	WG2641807

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	<u>Qualifier</u>	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	ND		10000	1	11/18/2025 16:37	WG2642206

Wet Chemistry by Method 410.4

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
COD	U		14100	20000	1	11/21/2025 16:01	WG2645023

Wet Chemistry by Method 4500S2 D-2011

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Sulfide	U		25.5	50.0	1	11/19/2025 00:43	WG2643130

Wet Chemistry by Method 9056A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	U		547	1000	1	11/19/2025 10:51	WG2640710
Fluoride	U		76.1	150	1	11/19/2025 10:51	WG2640710
Sulfate	U		637	5000	1	11/19/2025 10:51	WG2640710

Wet Chemistry by Method 9060A

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
TOC (Total Organic Carbon)	U		495	1000	1	11/22/2025 00:48	WG2644827

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	<u>Qualifier</u>	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	<u>Batch</u>
Barium	U		0.500	2.00	1	12/06/2025 13:36	WG2641807
Chromium	U		0.900	2.00	1	12/06/2025 13:36	WG2641807
Iron	U		22.6	100	1	12/06/2025 13:36	WG2641807
Manganese	U		0.700	5.00	1	12/06/2025 13:36	WG2641807

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Method Blank (MB)

(MB) R4303723-1 11/18/25 16:37

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1918332-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1918332-01 11/18/25 16:37 • (DUP) R4303723-3 11/18/25 16:37

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	962000	936000	1	2.74		10

L1918520-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1918520-01 11/18/25 16:37 • (DUP) R4303723-4 11/18/25 16:37

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Dissolved Solids	1000000	1020000	1	1.97		10

Laboratory Control Sample (LCS)

(LCS) R4303723-2 11/18/25 16:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8560000	97.3	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4304630-1 11/20/25 21:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4304630-2 11/20/25 21:55

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2560	102	90.0-110	

L1917615-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917615-02 11/20/25 21:57 • (MS) R4304630-3 11/20/25 21:59 • (MSD) R4304630-4 11/20/25 22:02

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2690	2560	108	103	1	90.0-110			4.72	20

L1918495-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918495-06 11/20/25 22:53 • (MS) R4304630-5 11/20/25 22:56 • (MSD) R4304630-6 11/20/25 22:58

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	U	2580	2580	103	103	1	90.0-110			0.271	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4306936-1 11/26/25 08:45

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4306936-2 11/26/25 08:47

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2520	101	90.0-110	

L1919921-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1919921-01 11/26/25 09:01 • (MS) R4306936-3 11/26/25 09:04 • (MSD) R4306936-4 11/26/25 09:06

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	4430	7020	6990	104	102	1	90.0-110	E	E	0.429	20

L1919921-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1919921-08 11/26/25 09:34 • (MS) R4306936-5 11/26/25 09:36 • (MSD) R4306936-6 11/26/25 09:39

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Nitrate-Nitrite	2500	2310	4930	4980	105	107	1	90.0-110			1.01	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4304654-1 11/21/25 15:49

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
COD	U		14100	20000

Laboratory Control Sample (LCS)

(LCS) R4304654-2 11/21/25 15:50

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
COD	500000	498000	99.5	90.0-110	

L1918408-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918408-03 11/21/25 15:51 • (MS) R4304654-3 11/21/25 15:51 • (MSD) R4304654-4 11/21/25 15:52

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	15000	503000	507000	97.6	98.4	1	90.0-110			0.844	20

L1918408-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918408-06 11/21/25 15:52 • (MS) R4304654-5 11/21/25 15:52 • (MSD) R4304654-6 11/21/25 15:53

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	21600	513000	524000	98.3	100	1	90.0-110			2.14	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4304658-1 11/21/25 15:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
COD	U		14100	20000

Laboratory Control Sample (LCS)

(LCS) R4304658-2 11/21/25 15:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
COD	500000	527000	105	90.0-110	

L1918483-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918483-07 11/21/25 16:00 • (MS) R4304658-3 11/21/25 16:01 • (MSD) R4304658-4 11/21/25 16:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	U	561000	557000	112	111	1	90.0-110	J5	J5	0.778	20

L1918495-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918495-06 11/21/25 16:02 • (MS) R4304658-5 11/21/25 16:02 • (MSD) R4304658-6 11/21/25 16:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
COD	500000	17100	555000	555000	108	107	1	90.0-110			0.00902	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4302161-1 11/17/25 16:39

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.5	50.0

L1918892-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1918892-04 11/17/25 16:49 • (DUP) R4302161-3 11/17/25 16:50

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4302161-2 11/17/25 16:39

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	ug/l	ug/l	%	%	
Sulfide	500	553	111	85.0-115	

L1918892-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918892-07 11/17/25 16:50 • (MS) R4302161-4 11/17/25 17:03 • (MSD) R4302161-5 11/17/25 17:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	516	542	103	108	1	80.0-120			4.91	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4302887-1 11/19/25 00:42

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Sulfide	U		25.5	50.0

L1918483-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1918483-09 11/19/25 00:43 • (DUP) R4302887-5 11/19/25 00:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
Sulfide	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4302887-2 11/19/25 00:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Sulfide	500	509	102	85.0-115	

L1918483-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918483-09 11/19/25 00:43 • (MS) R4302887-3 11/19/25 00:43 • (MSD) R4302887-4 11/19/25 00:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Sulfide	500	U	483	485	96.6	97.0	1	80.0-120			0.413	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4304185-1 11/19/25 02:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Fluoride	U		76.1	150
Sulfate	U		637	5000

L1918483-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1918483-07 11/19/25 09:35 • (DUP) R4304185-3 11/19/25 09:45

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12900	12900	1	0.216		15
Fluoride	197	224	1	12.9		15
Sulfate	2090	2330	1	10.7	J	15

L1918483-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1918483-08 11/19/25 10:17 • (DUP) R4304185-6 11/19/25 10:29

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	53100	54700	1	2.86		15
Fluoride	159	145	1	9.60	J	15
Sulfate	21700	23700	1	8.75		15

Laboratory Control Sample (LCS)

(LCS) R4304185-2 11/19/25 02:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	37200	93.0	80.0-120	
Fluoride	8000	7800	97.5	80.0-120	
Sulfate	40000	40600	101	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1918483-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918483-07 11/19/25 09:35 • (MS) R4304185-4 11/19/25 09:56 • (MSD) R4304185-5 11/19/25 10:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40000	12900	51300	49900	95.9	92.5	1	80.0-120			2.66	15
Fluoride	8000	197	8370	7950	102	96.9	1	80.0-120			5.15	15
Sulfate	40000	2090	42500	39700	101	94.0	1	80.0-120			6.81	15

L1918483-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1918483-08 11/19/25 10:17 • (MS) R4304185-7 11/19/25 10:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	40000	53100	82700	74.1	1	80.0-120	<u>J6</u>
Fluoride	8000	159	8250	101	1	80.0-120	
Sulfate	40000	21700	58000	90.7	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4304871-2 11/21/25 14:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
TOC (Total Organic Carbon)	U		495	1000

L1918408-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1918408-03 11/21/25 18:31 • (DUP) R4304871-5 11/21/25 18:50

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	U	U	1	0.000		20

L1918483-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1918483-01 11/21/25 21:43 • (DUP) R4304871-8 11/21/25 22:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	ug/l	ug/l		%		%
TOC (Total Organic Carbon)	500	U	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R4304871-1 11/21/25 14:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
TOC (Total Organic Carbon)	25000	23700	94.8	80.0-120	

L1918408-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918408-02 11/21/25 17:25 • (MS) R4304871-3 11/21/25 17:48 • (MSD) R4304871-4 11/21/25 18:11

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	1050	24600	24400	94.2	93.5	1	75.0-125			0.693	20

L1918408-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918408-06 11/21/25 20:35 • (MS) R4304871-6 11/21/25 21:00 • (MSD) R4304871-7 11/21/25 21:24

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
TOC (Total Organic Carbon)	25000	1310	25400	25100	96.2	95.0	1	75.0-125			1.19	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4310684-1 12/06/25 11:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Arsenic	U		0.120	2.00
Barium	U		0.500	2.00
Cadmium	U		0.120	1.00
Chromium	U		0.900	2.00
Iron	U		22.6	100
Lead	U		0.500	2.00
Manganese	U		0.700	5.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R4310684-5 12/06/25 12:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	50.0	49.7	99.5	80.0-120	
Barium	50.0	50.0	100	80.0-120	
Cadmium	50.0	53.1	106	80.0-120	
Chromium	50.0	51.5	103	80.0-120	
Iron	1000	1040	104	80.0-120	
Lead	50.0	51.7	103	80.0-120	
Manganese	50.0	50.9	102	80.0-120	

L1918481-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1918481-01 12/06/25 11:45 • (MS) R4310684-3 12/06/25 11:51 • (MSD) R4310684-4 12/06/25 11:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	50.0	1.43	56.4	58.5	110	114	1	75.0-125			3.74	20
Barium	50.0	63.5	119	116	111	104	1	75.0-125			3.01	20
Cadmium	50.0	U	56.2	55.9	112	112	1	75.0-125			0.576	20
Chromium	50.0	2.64	60.3	60.4	115	116	1	75.0-125			0.184	20
Iron	1000	1990	3020	3220	103	124	1	75.0-125			6.49	20
Lead	50.0	U	52.7	53.6	105	107	1	75.0-125			1.83	20
Manganese	50.0	1220	1230	1300	19.8	156	1	75.0-125	V	V	5.36	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

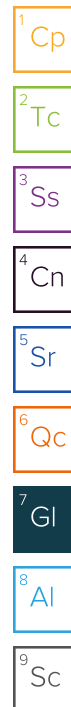
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
U	Not detected at the Reporting Limit (or MDL where applicable).
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
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.





Appendix D

Cost Estimate Updates



CLOSURE COST ESTIMATE - 2025 AEIR
Domtar Industries, Inc.
Class 3N Lime Waste Landfill Permit No. 0296-S3N - AFIN: 41-00002

ITEM	QUANTITY	UNIT	UNIT PRICE ³	AMOUNT	SOURCE
Surface Preparation	12.0	AC	\$ 1,538.00	\$ 18,453.00	Average of Item 2 from the Paper Sludge Landfill Bid and Item 4 from the Little Rock Landfill Bid
Clay Cover (2-foot thick)	38,681	CY	\$ 6.73	\$ 260,270.00	Average of Item 2 of Paper Sludge Landfill Bid, Item 7 from the NEARS Landfill Bid, Item 5 of Little Rock Landfill Bid
Geocomposite Drainage Layer	58,080	SY	\$ 6.30	\$ 365,904.00	Average of Item 11 from Little Rock Landfill Bid and Item 13.3 from Fulton, Arkansas Class 3N Landfill Bid
Protective Cover (12-inches thick)	19,341	CY	\$ 9.21	\$ 178,063.00	Average of Item 12 from Little Rock Landfill Bid and Item 6.4 from Fulton, Arkansas Class 3N Landfill bid
Vegetation/Soil Top Layer (min. 6-inches thick)	9,670	CY	\$ 17.94	\$ 173,518.00	Average of Item 13 from Little Rock Landfill bid and Item 3 from Paper Sludge Landfill bid
Seeding/Fertilizing/Mulching	12.0	AC	\$ 4,462.00	\$ 53,544.00	Average of Item 17 from NEARS Landfill bid, Item 8 Paper Sludge Landfill Bid, and Item 21 from Little Rock Landfill
Erosion Control	2	LS	\$ 7,500.00	\$ 15,000.00	Engineer's approximation
Mid-Slope Berms	1,350	CY	\$ 6.30	\$ 8,505.00	Average of Item 2 of Paper Sludge Landfill Bid, Item 7 from the NEARS Landfill Bid, Item 5 of Little Rock Landfill Bid
Let-Down Structures	1	LS	\$ 50,000.00	\$ 50,000.00	Engineer's Estimate
Engineering Quality Assurance/Quality Control ¹	1	LS	\$ 129,000.00	\$ 129,000.00	Engineer's Estimate
Surveying	1	LS	\$ 5,500.00	\$ 5,500.00	Engineer's Estimate
Certification	1	LS	\$ 4,500.00	\$ 4,500.00	Engineer's Estimate
TOTAL ²				\$ 1,262,257.00	

Notes:

1 - Includes Engineering, Permitting, CQA monitoring and CQA laboratory testing.

2 - Cost estimate is in 2020 dollars

3 - See "Source" Column for explanation of how Unit Price was derived

CLOSURE COST INFLATION ADJUSTMENT					
Year	2021	2022	2023	2024	2025
Implicit Price Deflator*	1.013	1.062	1.065	1.027	1.025
Adjusted Closure Cost Estimate	\$1,278,666	\$1,357,943	\$1,446,210	\$1,485,257	\$1,522,389

*<https://www.adeg.state.ar.us/sw/permits/financial.aspx>



POST-CLOSURE CARE COST ESTIMATE - 2025 AEIR
Domtar Industries, Inc.
Class 3N Lime Waste Landfill Permit No. 0296-S3N - AFIN: 41-00002

TABLE A				
ANNUAL REPAIRS AND STORMWATER SAMPLING				
ITEM	QUANTITY	UNIT	UNIT PRICE ⁵	AMOUNT
Skilled Labor (3 people x 8 hr/day x 10 days/yr)	240	Hours	\$ 22.00	\$ 5,280.00
Equipment- Dozer	40	Hours	\$ 143.25	\$ 5,730.00
Dump Truck	40	Hours	\$ 80.00	\$ 3,200.00
Loader	40	Hours	\$ 150.00	\$ 6,000.00
Mowing	32	Hours	\$ 55.00	\$ 1,760.00
Misc. Materials and Services ¹	2	LS	\$ 4,200.00	\$ 4,200.00
TOTAL ESTIMATED ANNUAL REPAIRS AND STORMWATER SAMPLING				\$ 26,170.00
TABLE B				
ANNUAL MAINTENANCE/OPERATION OF LEACHATE COLLECTION SYSTEM				
ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Annual Maintenance and Repair of System ¹	1	LS	\$ 6,000.00	\$ 6,000.00
Annual Transportation Costs ³	175,000	GAL	\$ 0.01	\$ 963.00
Annual Treatment Costs ⁴	175,000	GAL	\$ 0.01	\$ 963.00
TOTAL ESTIMATED ANNUAL LEACHATE SYSTEM O&M				\$ 7,925.00
TABLE C				
ANNUAL MAINTENANCE/OPERATION OF GROUNDWATER MONITORING SYSTEM				
ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Annual Maintenance and Repair ⁹	1	LS	\$ 1,667.00	\$ 1,667.00
Annual Groundwater Monitoring Services (3rd Party) ⁹	1	LS	\$ 6,000.00	\$ 6,000.00
TOTAL ESTIMATED ANNUAL GW MONITORING SYSTEM COSTS				\$ 7,667.00
TOTAL ESTIMATED ANNUAL POST-CLOSURE CARE COSTS:				\$ 41,762.00
TOTAL ESTIMATED POST-CLOSURE CARE COSTS (2-YEAR PERIOD ^{7,8}):				\$ 83,524.00

NOTES:

N/A = Not Applicable

1 - Assumes worst case scenarios the pump system will require replacement 1 time during the 2-year post closure period.

2 - Cost includes electricity to pump leachate to wastewater treatment pond located on facility property.

3 - Collected leachate will be pumped to the facility wastewater treatment system.

4 - Treatment costs are absorbed into the facility treatment system costs and do not apply.

5 - Unit Prices are taken from 2018 pricing sheet provided by Domtar's third party contracted landfill operator, Smith Equipment Co.

6 - Facility design does not include Gas Monitoring System.

7 - Post-Closure Care period is two years.

8 - Cost estimate is in 2020 dollars

POST-CLOSURE COST INFLATION ADJUSTMENT					
Year	2021	2022	2023	2024	2025
Implicit Price Deflator*	1.013	1.062	1.065	1.027	1.025
Adjusted Closure Cost Estimate	\$84,610	\$89,856	\$95,696	\$98,280	\$100,737

*<https://www.adeq.state.ar.us/sw/permits/financial.aspx>