Armando Martinez
Operations Lead, Portfolio Operations Central

INFORMATION ONLY

VIA ELECTRONIC MAIL

January 5, 2023

New Mexico Oil Conservation Division, District II
811 S. First Ct
Artesia, NM 88210

Re: Candelario 24-1 Battery
2022 Subsequent Soil Assessment Report
2RP-4201
Eddy County, New Mexico

Dear whom it concerns,

Please find enclosed for your filed, copies of the following:

- Candelario 24-1 Battery – 2022 Subsequent Soil Assessment Report

The 2022 Subsequent Soil Assessment Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Sarah Johnson with Arcadis at 432.227.0266 or myself at 575.586.7639, should you have any questions.

Sincerely,

Armando Martinez

Encl. Candelario 24-1 Battery, 2RP-4201 2022 Subsequent Soil Assessment Report

cc. Amy Barnhill, Chevron/MCBU

Armando Martinez
Operations Lead Central
Portfolio Operations - Central
354 State Highway 38, Questa, NM 87556-0469
Tel 575 586 7639 Mobile 505 690 5408 Fax 575 586 0811
amarti@chevron.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Armando Martinez	Contact Telephone: 575.586.7639
Contact email: amarti@chevron.com	Incident # *(assigned by OCD)*: NAB1713157779
Contact mailing address: P.O. Box 469 Questa, NM 87564	

Location of Release Source

Latitude 32.292795 Longitude -104.0472031
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Candelario 24-1 Battery	Site Type: Tank Battery
Date Release Discovered: May 9, 2017	API# *(if applicable):* 30-015-26536

Unit Letter	Section	Township	Range	County
D	24	23S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _Mosaic Potash_)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) ~30 bbls	Volume Recovered (bbls) ~25 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: On May 9, 2017, a release of 30 barrels (bbls) of produced water was discovered at the Site due to the failure of a one-inch diameter ball valve on the triplex pump. The produced water was contained inside the lined earthen firewall. Initial response included Rockcliff personnel shutting off triplex pump to replace the valve and coordinating with a vacuum truck to recover standing fluids.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAB1713157779
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Release volume is greater than 25 bbls.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Josh Turner contacted Mike Bratcher, Maria Pruett, and Shelly Tucker via email on September 16, 2018.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Project Manager

Signature: Armando Martinez Date: 1-5-2023

email: amarti@chevron.com Telephone: 575.586.7639

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	30 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan

State of New Mexico
Oil Conservation Division

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Project Manager

Signature: Date: 1-5-2023

email: amarti@chevron.com Telephone: 575.586.7639

OCD Only

Received by: Jocelyn Harimon Date: 01/11/2023

ARCADIS

Chevron Environmental Management Company

2022 Subsequent Soil Assessment Report

Candelario 24-1 Battery

Eddy County, New Mexico

NMOCD Case No. 2RP-4201

January 5, 2023

2022 Subsequent Soil Assessment Report

Candelario 24-1 Battery

January 5, 2023

Prepared By:
Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:
Armando Martinez
Operations Lead - Central
Chevron Environmental Management Company
P.O. Box 469
Questa, NM 87564

Our Ref:
30137969

Sarah Johnson
Certified Project Manager

Scott Foord, P.G.
Program Manager

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1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this 2022 Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing soil assessment activities for the Candelario 24-1 Battery (Site) release.

The Site is approximately two miles east of Loving, New Mexico. The Site is in Bureau of Land Management legal description Unit D, Section 24, Township 23 South, Range 28 East, Eddy County, New Mexico. A Site location map is included as **Figure 1**. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well on the Site pad with a reported depth to groundwater of 37 feet below ground surface (bgs).

A Site background summary detailing the initial soil investigation activities and initial C-141 Form are included in **Appendix A**.

2 2022 Soil Assessment

On September 7-9, 2022, Arcadis personnel collected 105 soil samples from seven locations (SB-24 through SB-30) surrounding the former tank battery location. The soil boring locations were determined based on the analytical results from the previous assessments. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5' bgs) to approximately 30 feet bgs. All soil cuttings were continuously logged for lithologic characteristics according to the Unified Soil Classification System (USCS). The boring logs and monitoring well construction logs are provided in **Appendix B**. The soil samples were collected in four-ounce jars provided by Pace Analytical Laboratory (Pace) in Mt. Juliet, Tennessee. Upon receival by the laboratory, the soil samples were analyzed for chloride by USEPA Method 300. The soil cuttings were returned to the respective boring locations. The soil boring locations are presented in **Figure 2**.

3 2022 Soil Analytical Results

The soil analytical results were compared to the revised New Mexico Administrative Code (NMAC) closure screening levels for the specific analytical constituents specified in *Table 1 – Closure Criteria for Soils Impacted by a Release* within revised Rule 19.15.29. For this Site, chloride is the only constituent of concern, compared to the screening levels for sites with a depth to groundwater less than 50 feet bgs. A summary of the soil sample analytical results is presented in **Table 1**. Cumulative soil analytical results are presented in **Appendix C**. Copies of the certified analytical reports and chain-of-custody documentation from Pace are presented in **Appendix D**. The soil analytical map is presented in **Figure 3**.

3.1 Chloride

Chloride exceeded the NMAC closure screening level of 600 milligrams per kilogram (mg/kg) in 32 of the 105 soil samples at concentrations ranging from 620 mg/kg at SB-29 (28 feet bgs) to 8,660 mg/kg at SB-28 (0 feet bgs).

4 Summary

Analytical results associated with recent assessment activities conducted in 2022 indicate that the horizontal and vertical extent of chloride impact in the soil and groundwater have not been fully delineated at the Site. Additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan that will be submitted to the New Mexico Oil Conservation Division for review and approval.

Tables

Table 1
2022 Soil Analytical Results
Candelario 24-1 Battery
Eddy County New Mexico

ARCADIS

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			***600***
SB-24-S-0-220907	0'	09/07/22	***976***
SB-24-S-4-220907	4'	09/07/22	403
SB-24-S-6-220907	6'	09/07/22	57.7 P1
SB-24-S-8-220907	8'	09/07/22	13.8 J
SB-24-S-10-220907	10'	09/07/22	11.5 J
SB-24-S-12-220907	12'	09/07/22	24.1
SB-24-S-14-220907	14'	09/07/22	116
SB-24-S-16-220907	16'	09/07/22	116
SB-24-S-18-220907	18'	09/07/22	53.0
SB-24-S-20-220907	20'	09/07/22	129
SB-24-S-22-220907	22'	09/07/22	29.1
SB-24-S-24-220907	24'	09/07/22	36.1
SB-24-S-26-220907	26'	09/07/22	30.7 P1
SB-24-S-28-220907	28'	09/07/22	23.2 J
SB-24-S-30-220907	30'	09/07/22	26.5
SB-25-S-0-220908	0	09/08/22	<25.1
SB-25-S-4-220908	4'	09/08/22	38.7
SB-25-S-6-220908	6'	09/08/22	36.9
SB-25-S-8-220908	8'	09/08/22	11.0 J
SB-25-S-10-220908	10'	09/08/22	62.3
SB-25-S-12-220908	12'	09/08/22	45.3
SB-25-S-14-220908	14'	09/08/22	140
SB-25-S-16-220908	16'	09/08/22	51.7
SB-25-S-18-220908	18'	09/08/22	42.2
SB-25-S-20-220908	20'	09/08/22	83.0
SB-25-S-22-220908	22'	09/08/22	67.3
SB-25-S-24-220908	24'	09/08/22	43.2
SB-25-S-26-220908	26'	09/08/22	<22.7
SB-25-S-28-220908	28'	09/08/22	54.7
SB-25-S-30-220908	30'	09/08/22	<23.4 P1
SB-26-S-0-220908	0	09/08/22	***1,520***
SB-26-S-4-220908	4'	09/08/22	***1,470***
SB-26-S-6-220908	6'	09/08/22	138
SB-26-S-8-220908	8'	09/08/22	96.9
SB-26-S-10-220908	10'	09/08/22	24.5
SB-26-S-12-220908	12'	09/08/22	57.4
SB-26-S-14-220908	14'	09/08/22	35.6
SB-26-S-16-220908	16'	09/08/22	19.0 J
SB-26-S-18-220908	18'	09/08/22	187
SB-26-S-20-220908	20'	09/08/22	118 J3
SB-26-S-22-220908	22'	09/08/22	221
SB-26-S-24-220908	24'	09/08/22	90.7
SB-26-S-26-220908	26'	09/08/22	<21.7
SB-26-S-28-220908	28'	09/08/22	74.1
SB-26-S-30-220908	30'	09/08/22	92.0

Table 1
2022 Soil Analytical Results
Candelario 24-1 Battery
Eddy County New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			***600***
SB-27-S-0-220908	0	09/08/22	***5,600***
SB-27-S-4-220908	4'	09/08/22	***949***
SB-27-S-6-220908	6'	09/08/22	384
SB-27-S-8-220908	8'	09/08/22	432
SB-27-S-10-220908	10'	09/08/22	***794 J3***
SB-27-S-12-220908	12'	09/08/22	232
SB-27-S-14-220908	14'	09/08/22	267
SB-27-S-16-220908	16'	09/08/22	***658***
SB-27-S-18-220908	18'	09/08/22	329
SB-27-S-20-220908	20'	09/08/22	345
SB-27-S-22-220908	22'	09/08/22	***745***
SB-27-S-24-220908	24'	09/08/22	***4,480***
SB-27-S-26-220908	26'	09/08/22	***5,090***
SB-27-S-28-220908	28'	09/08/22	***3,980***
SB-27-S-30-220908	30'	09/08/22	531
SB-28-S-0-220908	0	09/08/22	***8,660***
SB-28-S-4-220908	4'	09/08/22	***1,800***
SB-28-S-6-220908	6'	09/08/22	***1,030***
SB-28-S-8-220908	8'	09/08/22	***890***
SB-28-S-10-220908	10'	09/08/22	***982***
SB-28-S-12-220908	12'	09/08/22	193
SB-28-S-14-220908	14'	09/08/22	148
SB-28-S-16-220908	16'	09/08/22	186
SB-28-S-18-220908	18'	09/08/22	524
SB-28-S-20-220908	20'	09/08/22	350
SB-28-S-22-220908	22'	09/08/22	379
SB-28-S-24-220908	24'	09/08/22	327
SB-28-S-26-220908	26'	09/08/22	383
SB-28-S-28-220908	28'	09/08/22	386
SB-28-S-30-220908	30'	09/08/22	442
SB-29-S-0-220909	0	09/09/22	***7,880***
SB-29-S-4-220909	4'	09/09/22	***1,180***
SB-29-S-6-220909	6'	09/09/22	***890***
SB-29-S-8-220909	8'	09/09/22	***1,310***
SB-29-S-10-220909	10'	09/09/22	***1,110 J3 J5***
SB-29-S-12-220909	12'	09/09/22	***636***
SB-29-S-14-220909	14'	09/09/22	***888***
SB-29-S-16-220909	16'	09/09/22	***781***
SB-29-S-18-220909	18'	09/09/22	320
SB-29-S-20-220909	20'	09/09/22	98.8
SB-29-S-22-220909	22'	09/09/22	160
SB-29-S-24-220909	24'	09/09/22	162
SB-29-S-26-220909	26'	09/09/22	***740***
SB-29-S-28-220909	28'	09/09/22	***620***
SB-29-S-30-220909	30'	09/09/22	***1,500***

Table 1
2022 Soil Analytical Results
Candelario 24-1 Battery
Eddy County New Mexico

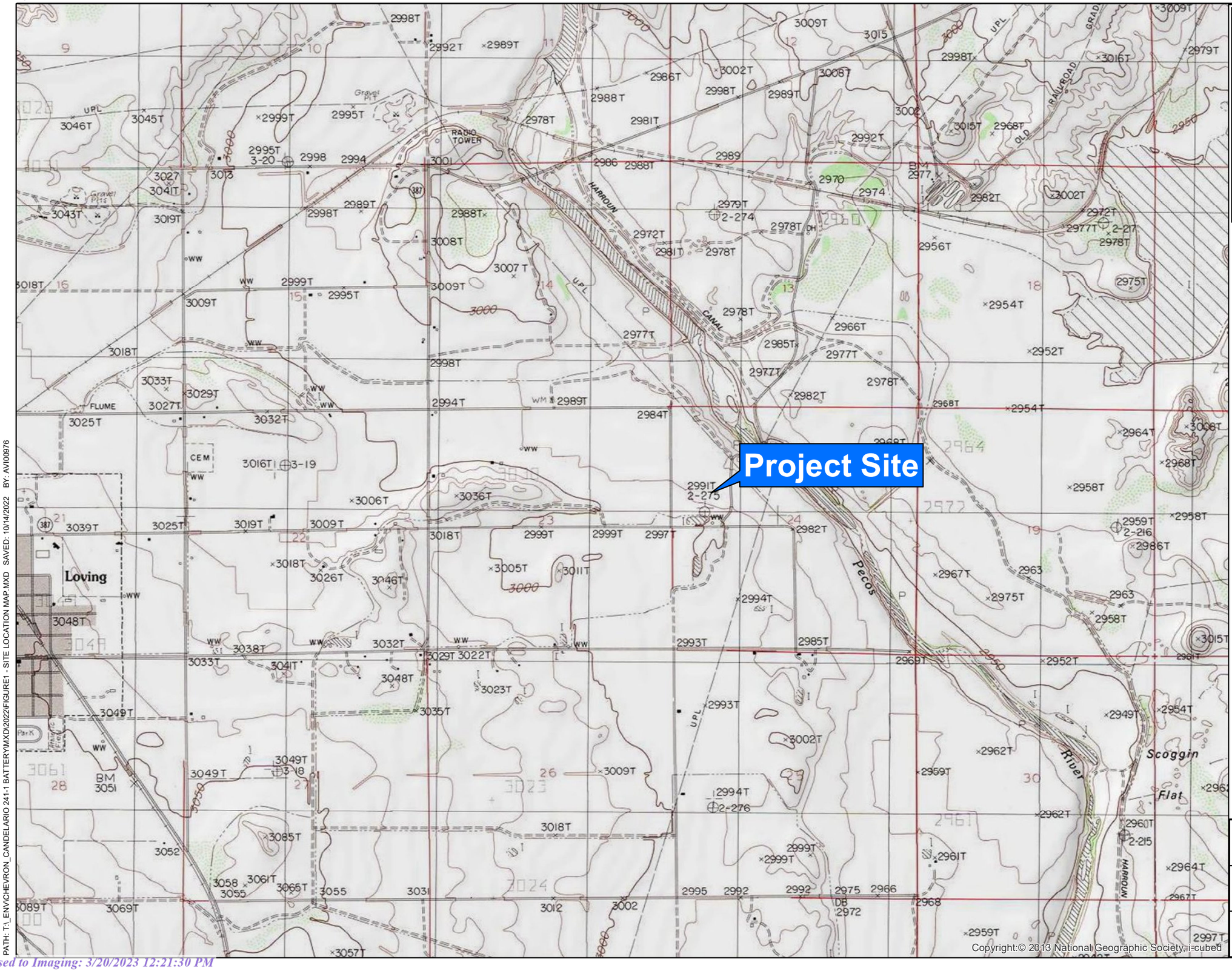
Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			***600***
SB-30-S-0-220909	**0**	09/09/22	***2,220***
SB-30-S-4-220909	**4'**	09/09/22	***1,860***
SB-30-S-6-220909	**6'**	09/09/22	***1,200***
SB-30-S-8-220909	**8'**	09/09/22	***1,590***
SB-30-S-10-220909	**10'**	09/09/22	***719***
SB-30-S-12-220909	**12'**	09/09/22	145
SB-30-S-14-220909	**14'**	09/09/22	258
SB-30-S-16-220909	**16'**	09/09/22	200
SB-30-S-18-220909	**18'**	09/09/22	121
SB-30-S-20-220909	**20'**	09/09/22	294
SB-30-S-22-220909	**22'**	09/09/22	48.2
SB-30-S-24-220909	**24'**	09/09/22	70.9
SB-30-S-26-220909	**26'**	09/09/22	26.6
SB-30-S-28-220909	**28'**	09/09/22	72.1
SB-30-S-30-220909	**30'**	09/09/22	77.3

Legend:
Bold and *italicized* analytes exceeds NMAC Standards
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
NMAC : New Mexico Administration Code
J: The identification of the analyte is acceptable; the reported value is an estimate
J3: The associated batch QC was outside the established quality control range for precision
J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high
P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.

mg/kg: Milligram per Kilogram
" ' " : Indicates one foot
bgs: below ground surface

Notes:
1. Chloride analyzed by Method 300.0

Figures



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SCALE IN FEET

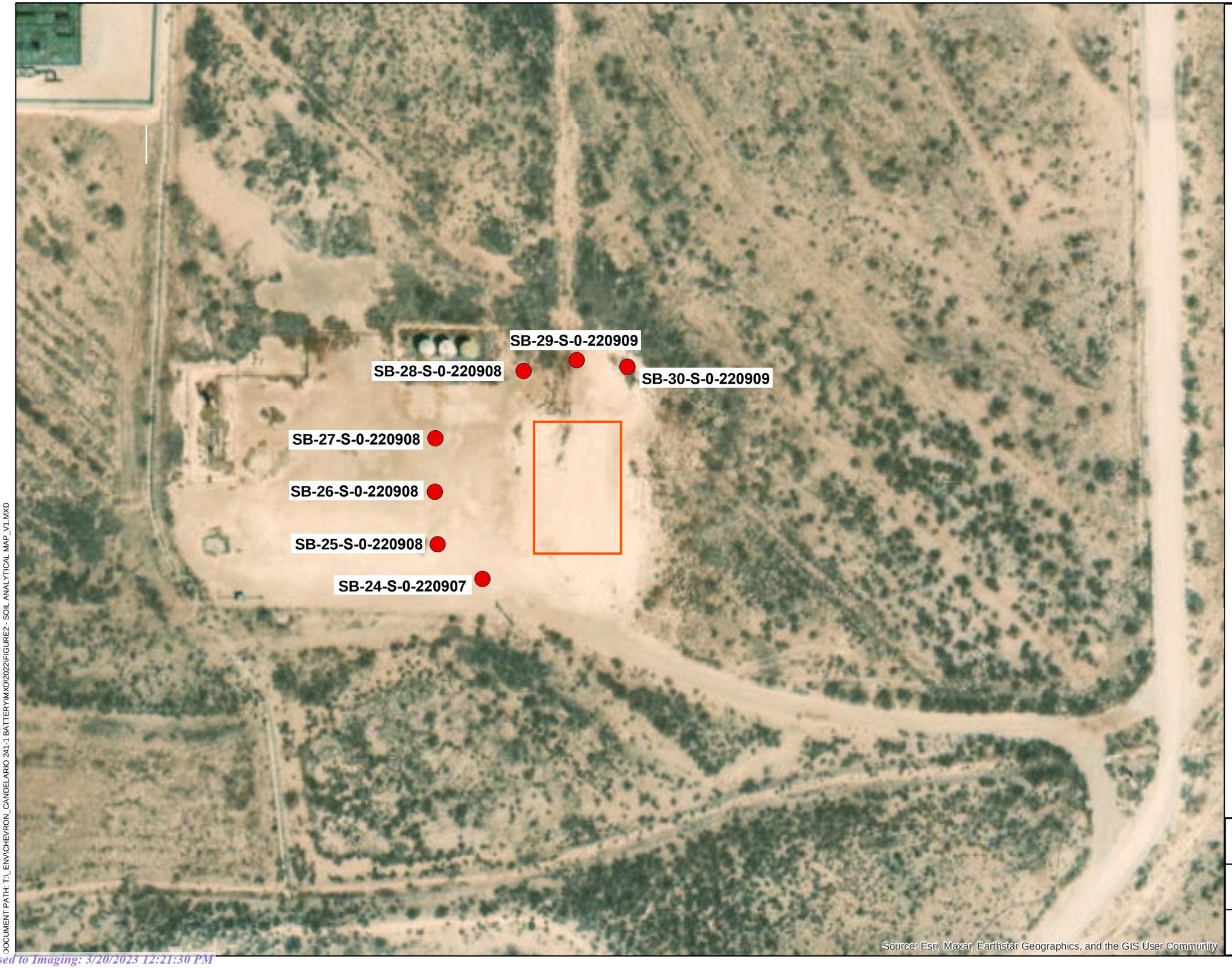
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24-1 BATTERY
EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE
1

PATH: T:_ENV\CHEVRON_CANDELARIO 241-1 BATTERY\MXD\2022\FIGURE1 - SITE LOCATION MAP.MXD SAVED: 10/14/2022 BY: AVI00976



LEGEND

- Soil Boring Location
- Historical Battery Containment

N

0 80 160

SCALE IN FEET

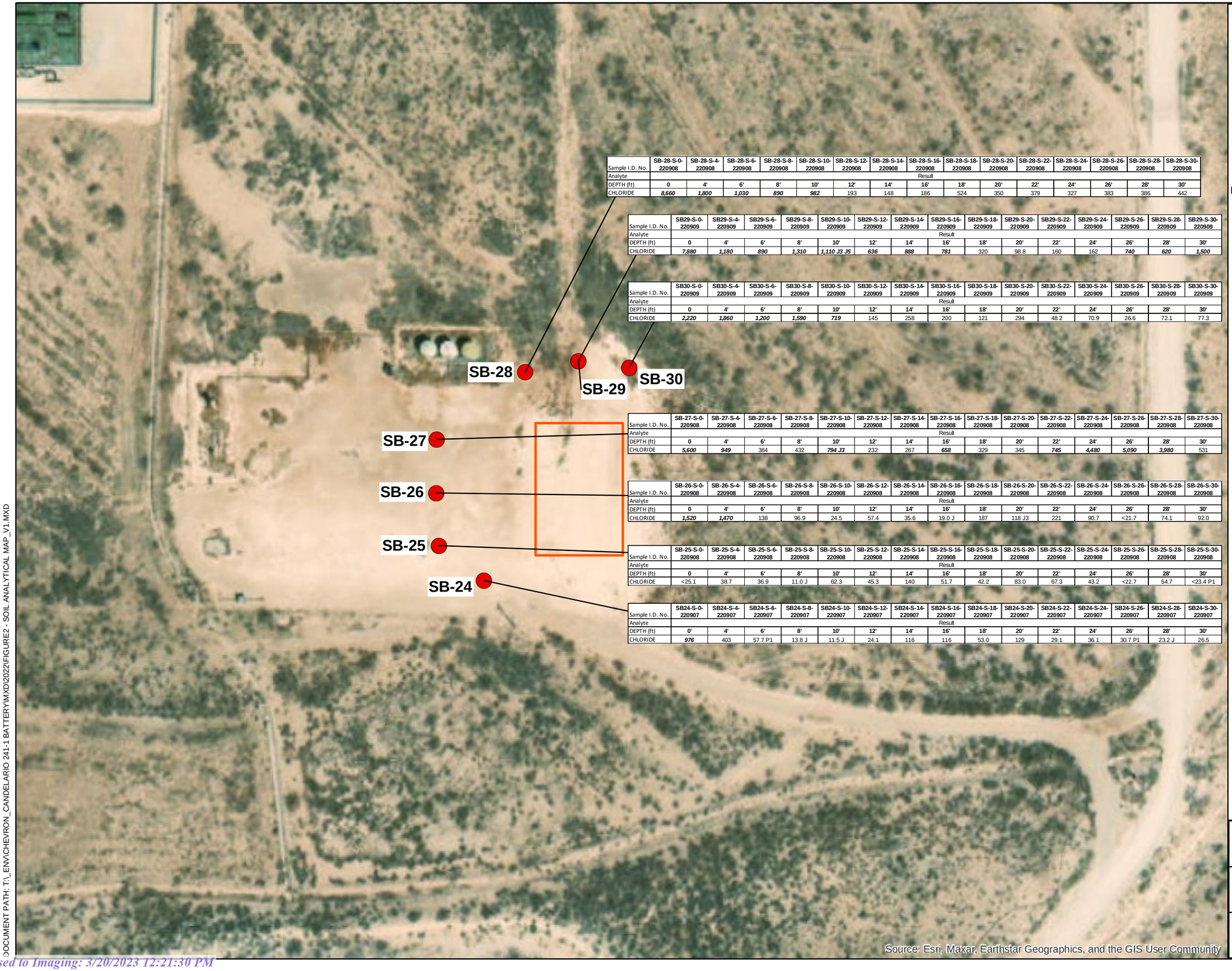
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24 -1 BATTERY
EDDY COUNTY, NEW MEXICO

SOIL BORING LOCATION MAP -SEPTEMBER 2022

ARCADIS

FIGURE 2

DOCUMENT PATH: T:_ENV\CHEVRON_CANDELARIO 241-1 BATTERY\MXD\2022\FIGURE2 - SOIL ANALYTICAL MAP_V1.MXD



Sample I.D. No.	SB-28-S-0-220908	SB-28-S-4-220908	SB-28-S-6-220908	SB-28-S-8-220908	SB-28-S-10-220908	SB-28-S-12-220908	SB-28-S-14-220908	SB-28-S-16-220908	SB-28-S-18-220908	SB-28-S-20-220908	SB-28-S-22-220908	SB-28-S-24-220908	SB-28-S-26-220908	SB-28-S-28-220908	SB-28-S-30-220908
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***8,660***	***1,800***	***1,030***	***890***	***982***	193	148	186	524	350	379	327	383	386	442

Sample I.D. No.	SB29-S-0-220909	SB29-S-4-220909	SB29-S-6-220909	SB29-S-8-220909	SB29-S-10-220909	SB29-S-12-220909	SB29-S-14-220909	SB29-S-16-220909	SB29-S-18-220909	SB29-S-20-220909	SB29-S-22-220909	SB29-S-24-220909	SB29-S-26-220909	SB29-S-28-220909	SB29-S-30-220909
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***7,880***	***1,180***	***890***	***1,310***	***1,110 J3 J5***	***636***	***888***	***781***	320	98.8	160	162	***740***	***620***	***1,500***

Sample I.D. No.	SB30-S-0-220909	SB30-S-4-220909	SB30-S-6-220909	SB30-S-8-220909	SB30-S-10-220909	SB30-S-12-220909	SB30-S-14-220909	SB30-S-16-220909	SB30-S-18-220909	SB30-S-20-220909	SB30-S-22-220909	SB30-S-24-220909	SB30-S-26-220909	SB30-S-28-220909	SB30-S-30-220909
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***2,220***	***1,860***	***1,200***	***1,590***	***719***	145	258	200	121	294	48.2	70.9	26.6	72.1	77.3

Sample I.D. No.	SB-27-S-0-220908	SB-27-S-4-220908	SB-27-S-6-220908	SB-27-S-8-220908	SB-27-S-10-220908	SB-27-S-12-220908	SB-27-S-14-220908	SB-27-S-16-220908	SB-27-S-18-220908	SB-27-S-20-220908	SB-27-S-22-220908	SB-27-S-24-220908	SB-27-S-26-220908	SB-27-S-28-220908	SB-27-S-30-220908
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***5,600***	***949***	384	432	***794 J3***	232	267	***658***	329	345	***745***	***4,480***	***5,090***	***3,980***	531

Sample I.D. No.	SB-26-S-0-220908	SB-26-S-4-220908	SB-26-S-6-220908	SB-26-S-8-220908	SB-26-S-10-220908	SB-26-S-12-220908	SB-26-S-14-220908	SB-26-S-16-220908	SB-26-S-18-220908	SB-26-S-20-220908	SB-26-S-22-220908	SB-26-S-24-220908	SB-26-S-26-220908	SB-26-S-28-220908	SB-26-S-30-220908
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***1,520***	***1,470***	138	96.9	24.5	57.4	35.6	19.0 J	187	118 J3	221	90.7	<21.7	74.1	92.0

Sample I.D. No.	SB-25-S-0-220908	SB-25-S-4-220908	SB-25-S-6-220908	SB-25-S-8-220908	SB-25-S-10-220908	SB-25-S-12-220908	SB-25-S-14-220908	SB-25-S-16-220908	SB-25-S-18-220908	SB-25-S-20-220908	SB-25-S-22-220908	SB-25-S-24-220908	SB-25-S-26-220908	SB-25-S-28-220908	SB-25-S-30-220908
Analyte	Result														
DEPTH (ft)	0	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	<25.1	38.7	36.9	11.0 J	62.3	45.3	140	51.7	42.2	83.0	67.3	43.2	<22.7	54.7	<23.4 P1

Sample I.D. No.	SB24-S-0-220907	SB24-S-4-220907	SB24-S-6-220907	SB24-S-8-220907	SB24-S-10-220907	SB24-S-12-220907	SB24-S-14-220907	SB24-S-16-220907	SB24-S-18-220907	SB24-S-20-220907	SB24-S-22-220907	SB24-S-24-220907	SB24-S-26-220907	SB24-S-28-220907	SB24-S-30-220907
Analyte	Result														
DEPTH (ft)	0'	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
CHLORIDE	***976***	403	57.7 P1	13.8 J	11.5 J	24.1	116	116	53.0	129	29.1	36.1	30.7 P1	23.2 J	26.5

LEGEND

- Soil Boring Location
- Historical Battery Containment

NOTES:

1. ***BOLD*** = Analytes exceeding NMAC standard.
2. P1: RPD value not applicable for sample concentrations less than 5 times the reporting limit.
3. J = The identification of the analyte is acceptable; the reported value is an estimate
4. J3 = The associated batch QC was outside the established quality control range for precision
5. J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high
6. '<' indicates the analyte was not detected at or above the Reporting Detection Limit.
7. mg/kg = Milligram per Kilogram.
8. NMAC = New Mexico Administration Code.
9. " ' " = Indicates one foot.
10. All depths are in feet below ground surface.
11. SB = Soil Boring sample.
12. TMW = Temporary Monitoring Well
13. Chloride analyzed by United States Environmental Protection Agency Method 300.0.
14. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2).

N

0 80 160

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24 -1 BATTERY
EDDY COUNTY, NEW MEXICO

SOIL ANALYTICAL RESULTS MAP -SEPTEMBER 2022

ARCADIS

FIGURE 3

DOCUMENT PATH: T:_ENV\CHEVRON_CANDELARIO 241-1 BATTERY\MXD\2022\FIGURE2 - SOIL ANALYTICAL MAP_V1.MXD

Appendix A

Initial Investigation Activities and Initial C-141 Form

Appendix A

On May 9, 2017, a release of 30 barrels (bbls) of produced water was discovered at the Site due to the failure of a one-inch diameter ball valve on the triplex pump. The produced water was contained inside the lined earthen firewall. Initial response included Rockcliff personnel shutting off triplex pimp to replace the valve and coordinating with a vacuum truck to recover standing fluids. Approximately 25 bbls were recovered and disposed of at a New Mexico Oil Conservation Division (NMOCD) approved facility. The initial C-141 Form was approved with conditions and assigned remediation permit number 2RP-4201.

On June 14, 2017, Kane Environmental Engineering Inc. (Kane) collected soil samples at five locations (S1 through S5) within the spill area. The soil samples were screened in the field for hydrocarbons using a photoionization detector (PID) and chloride using an electrical conductivity (EC) meter. The soil samples were analyzed by Cardinal Laboratories for benzene, toluene, ethylbenzene and total xylenes (BTEX); total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO); and chloride by United States Environmental Protection Agency (USEPA) Methods 8021, 8015 and 300 respectively. Kane excavated approximately fifteen test holes to evaluate the integrity of the liner. Based on the reported observations, the liner appeared to be intact. The analytical results indicated that further assessment was necessary. Kane submitted the *Investigation Report and Corrective Action Plan for the Candelario 24-1 SWD* to the NMOCD in June 2017.

On March 28, 2018, Souder, Miller & Associates (SMA) installed two soil borings within the lined earthen firewall of the tank battery. A total of seven soil samples were collected for laboratory analysis for chloride using USEPA Method 300.0. A total of five soil samples were collected for BTEX using USEPA Method 8021B, and TPH for ORO, DRO, and GRO by USEPA Method 8015D.

Results of the soil investigation indicated that chloride impacts extended to between 5 and 14 feet bgs. Impacted soil was excavated and removed to a depth of 4 feet bgs within the original bermed tank battery area. After the initial excavation, Rockliff constructed a new saltwater disposal (SWD) facility in August 2018. The new tank battery is located over the former excavated area and encompasses a smaller area with a liner.

Composite sidewall samples were collected on an unknown date by SMA from the boundaries of the old facility after the new facility was constructed. Confirmation samples were comprised of five-point composites of the walls (SW1 – SW10). The laboratory results for the confirmation samples indicated that impacts extend beyond the excavation (and former tank battery footprint). The new tank battery was constructed within an area requiring additional assessment. SMA requested deferral of further remediation until the well is no longer in use and the new facilities are removed. SMA submitted a closure request titled *Remediation Closure Report for the Candelario #1 SWD Release,* dated September 27, 2018 to the NMOCD in September of 2018.

On May 30, 2019, Arcadis, on behalf of CEMC, submitted a Site Deferral Request to the NMOCD. The Site Deferral Request was approved on July 23, 2019 with the following conditions; install additional delineation soil borings around the previously excavated area, install additional soil borings at sample locations B1 and B2 and collect soil samples in more discrete sample intervals at those two locations.

On September 29 and 30, 2020, Arcadis personnel collected 60 soil samples at 12 locations (SB-1 through SB-12) within the release area. The soil boring locations were determined based on information available on the Initial C-141 Form and from historical 2017 and 2018 soil investigations. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5’ bgs) to approximately 20 feet bgs. Upon receival by the laboratory, the soil samples were analyzed for chloride by the USEPA Method 300. Analytical results associated with the 2020 assessment activities indicated that horizontal and vertical extent of chloride impact in the soil has not been fully delineated.

Appendix A

On August 17 and 18, 2021, Arcadis personnel collected 69 soil samples from 13 locations (SB-13 through SB-23, TMW-1 and TMW-2) within the release area. The soil boring locations were determined based on the analytical results from the previous assessments. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5' bgs) to approximately 20 feet bgs and to approximately 30 feet bgs at the two soil borings that were completed as temporary monitoring wells (TMW-1 and TMW-2). The soil cuttings were returned to the respective boring locations. Upon receival by the laboratory, the soil samples were analyzed for chloride by USEPA Method 300, and the groundwater samples were analyzed for chloride by USEAP Method 300 and total dissolved solids (TDS) by USEPA Method 2540C. Analytical results associated with the 2021 assessment activities indicated that horizontal and vertical extent of chloride impact in the soil and groundwater has not been fully delineated.

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 09 2017
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1713157779

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company Rockcliff Energy 371115	Contact Jonathon Solis
Address 1301 McKinney Suite 1300 Houston tx 77010	Telephone No. 575.317.1198
Facility Name Carlsbad SWD #1 Sub Battery	Facility Type SWD

Surface Owner Mosaic Potash	Mineral Owner Mosaic Potash	API No. 30.015.26536

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	24	23S	28E		1980'		660'	Eddy

Latitude 32.292795 Longitude -104.047119 NAD83

NATURE OF RELEASE

Type of Release PW	Volume of Release 30	Volume Recovered 25
Source of Release Tank flow off	Date and Hour of Occurrence 1000	Date and Hour of Discovery 1000
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? May 9, 2017 Crystal Weaver	May 9, 2017
By Whom? Jonathon Solis	Date and Hour 1300 9 May 2017	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
1" Ball valve washed out on tri-plex, shut pump off

Describe Area Affected and Cleanup Action Taken.*
spill was contained inside firewall, vac-truck came to location to suck PW from ground & hauled to disposal. Install new 1" valve & plug changed out

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION
Printed Name: Jonathon Solis	Approved by Environmental Specialist: Crystal Weaver
Title: Field Foreman	Approval Date: 5/10/17 Expiration Date: N/A
E-mail Address: jonathon.solis@rockcliffenergy.com	Conditions of Approval: See attached Attached ☑
Date: 9 MAY 2017 Phone: 575.317.1198	

* Attach Additional Sheets If Necessary

2RP-4201

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **5/9/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4201 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 6/9/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Jonathon Solis <jonathon.solis@rockcliffenergy.com>
Sent: Tuesday, May 9, 2017 5:53 PM
To: Weaver, Crystal, EMNRD
Subject: FW: FORM C 141
Attachments: NMOCD FORM C141.pdf

Crystal

I mistyped your email address, the first time I sent it to you.

THANK YOU
JONATHON
ROCKCLIFF ENERGY
FIELD FOREMAN
575.317.1198

From: Jonathon Solis
Sent: Tuesday, May 09, 2017 6:49 PM
To: 'Crystal Weaver' <crystal.weaver@ststae.nm.us>; 'Mike Bratcher' <mike.bratcher@state.nm.us>
Cc: Mike Martin <mike.martin@rockcliffenergy.com>
Subject: FORM C 141

CRYSTAL

This is Jonathon Solis, I work for Rockcliff Energy. I spoke to you today on the phone and I'm submitting the Form C 141. Brief overview:
Rockcliff pumper checking the lease, drove onto Candelario 24 #1 SWD Battery and saw the tank overflowing. The PW spill was inside firewall. He turned off the tri-plex and found a 1" ball valve was washed out. He called a vac truck to clean up area. He then notify Rockcliff management about the PW spill inside the firewall. I contacted you, Ms. Weaver. Pumper has changed 1" ball valve and cleaned up the PW spill.

THANK YOU
JONATHON
ROCKCLIFF ENERGY
FIELD FOREMAN
575.317.1198

Appendix B

Soil Boring Logs

Date Start/Finish: 09-07-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolen	**Well/Boring ID:** SB24 **Client:** Chevron Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0'					GM		Gravel Sand (Pad); 7.5 YR 7/3 Pink, trace silt, sand, with gravel and pebbles, mostly coarse grain, subrounded, loose, hard, dry	
2'							Silty Sand; 7.5 YR 5/4 Brown, very fine to fine grain, trace small pebbles, moderately sorted, subrounded to subangular, loose, medium stiff, dry	
4'					SM		Sandy Gravel, 7.5 YR 7/3 Pink, sand with some gravel and pebbles, poorly sorted, subrounded, loose, very fine to fine grain, trace medium grain, hard, dry	
6'								
8'					GM		Sandy Gravel, 7.5 YR 8/2 Pinkish White, medium to coarse grain sand with medium pebbles, subrounded, trace subangular, poorly sorted, medium stiff to hard, loose, dry	
10'								
12'					ML		Sandy Silt; 7.5 YR 8/3 Pink, very fine to fine grain with trace small pebbles, loose, powdery, soft, poor to moderately sorted, dry	
14'								
16'								
18'					CL		Sandy Clay; 7.5 YR 5/4 Brown, very fine to fine grain, rounded to subrounded, cohesive, medium stiff to soft, moderately sorted, slight trace of small pebbles, moist	
20'					SW		Sand; 7.5 YR 6/3 Light Brown, fine grain, well rounded, well sorted, loose, soft, slightly moist	
22'								
24'								
26'								
28'					SM		Sand; 7/5 YR 6/4 Light Brown, fine to medium grain, trace coarse grains, well rounded to rounded, well sorted, loose, medium stiff, moist, trace small pebbles	
30'							End of boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Date Start/Finish: 09-08-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolen	**Well/Boring ID:** SB25 **Client:** Chevron Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0'					ML		Sandy Silt; 7.5 YR 6/4 Light Brown, very fine to fine grain, trace gravel to pebbles, subrounded to subangular, poorly sorted, medium stiff, slightly, cohesive, moist	
4'					SM		Silty Sand; 5 YR 6/4 Light Redish Brown, very fine to fine grain, well rounded to subrounded, moderately to well sorted, soft, slightly cohesive, dry	
6'					GM		Gravel Silty Sand; 7.5 YR 7/3 Pink, fine to medium grain with some mixed pebbles and gravel, poorly sorted, medium stiff, loose, subroounded to subangular, dry	
8'							Silty Sand; 7.5 YR 8/4 Pink, pebbles to gravel, fine to medium grain, poorly sorted, loose, hard, dry	
10'								
12'								
14'							Silty Sand; 10 YR 7/4 Pale Light Brown, with gravel and pebbles, fine to medium grain, subrouonded to subangular, poorly sorted, hard, dry	
16'								
18'					SM			
20'								
22'								
24'							Silty Sand; 10 YR 7/3 Very Pale Brown, very fine to some fine grain, trace small pebbles, moderately to well sorted, soft, loose, dry	
26'								
28'					SW		Sand; 10 YR 7/3 Very Pale Brown, fine to medium grain, occasionally coarse grain, poor to moderately sorted, medium stiff, loose, moist	
30'							End of boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Project: 30137969.00003 Template: LPTemplate3.1 Page: 1 of 1
Data File: Candelario 24-1 Battery_SB25 Date: 9/26/2022 Created/Edited by: Nadja Cintron Franqui

Date Start/Finish: 09-08-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolen	**Well/Boring ID:** SB26 **Client:** Chevron Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0'					GM		Gravel Sand and Silt; 7.5 YR 6/4 Light Brown, very fine to fine grain with pebbles and gravel, poorly sorted, hard, subangular to subrounded, dry	
							Sand; 7.5 YR 7/3 Pink, fine to very fine grain, some silt, gravel, and pebbles, poorly sorted, subrounded to subangular, loose, hard, dry	
4'					SM		Sand; 7.5 8/2 Pinkish White, fine to medium grain with gravel and pebbles, poorly sorted, subrounded to sunamgular, loose, hard, dry	
6'								
8'								
10'							Sandy Silt; 10 YR 8/3 Very Pale Brown, very fine to fine grains with some pebbles, round to subrounded, moderately sorted, soft, slightly cohesive, dry	
12'							Sandy Silt; 7.7 YR 8/4 Pink, very fine to fine grain, well sorted, slight trace of small pebbles, loose, rounded to subrounded, soft, dry	
14'					ML			
16'								
18'								
20'					SM		Sand with trace clay nodules; 7.5 YR 5/4 Brown, fine grain, well sorted, well rounded, cohesive, with clay nodules, moist	
22'							Sand; 7.5 YR 5/4 Brown, fine grain, well rounded, well sorted, cohesive, soft, moist	
24'					SW			
26'								
28'							Sand, 7/5 YR 5/4 Brown, fine to medium grain, trace corse and small pebbles, moderately sorted, rounded to subrounded, loose, medium stiff, moist	
30'							End of boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Project: 30137969.00003 Template: LPTemplate3.1 Page: 1 of 1
Data File: Candelario 24-1 Battery_SB26 Date: 9/23/2022 Created/Edited by: Nadja Cintron Franqui

Date Start/Finish: 09-08-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolen	**Well/Boring ID:** SB27 **Client:** Chevron Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0'					GC		Gravel Sand with Clay, 5 YR 5/4 Reddish Brown, fine to very fine grain, some pebbles and gravel, well rounded, trace sub angular, trace clay nodules, slightly moist, soft to medium stiff	
4'							Silty Sand with trace Gravel, 5 YR 6/4 Light Reddish Brown, fine to medium grain with some gravel and pebbles, poorly sorted, medium stiff, subangular to subrounded, loose, dry	
6'					SM		Silty Sand; 7.5 YR 7/3 Pink, fine to medium occasionally coarse grain, some pebbles, poorly sorted, angular to subangular, occasionally subrounded, loose, medium stiff, dry	
8'							Sand; 7.5 YR 6/4 Light Brown, fine to medium grain with trace gravel and silt, subangular to subrounded, medium stiff, poorly sorted, dry	
10'					GM		Sandy Gravel with trace Silt; 7.5 YR 8/4 Pink, fine to medium grain, subrounded to subangular, poorly sorted, medium stiff, loose, dry	
12'								
14'					SP		Silty Sand; 7.5 YR 8/3 Pink, very fine to fine grain, some coarse grain, moderatly to poorly sorted, subrounded to subangular, loose, medium stiff, dry	
16'							Silty Sand; 7.5 YR 7/3 Pink, very fine to fine grain, moderately sorted, rounded to subrounded, slightly cohesive, soft, dry	
18'					SM			
20'							Silty Sand; 5 YR 6/3 Light Reddish Brown, fine to very fine grain with trace pebbles, moderatly sorted, loose, soft, dry	
22'							Sand; 5 YR 5/4 Reddish Brown, fine to very fine grain, well sorted, well rounded to subrounded, cohesive, soft, moist	
24'					SW			
26'					CL		Sandy Clay; 5 YR 5/4 Reddish Brown, very fine to fine grain, well sorted, well rounded, cohesive, soft, moist	
28'					SW		Sand; 5 YR 5/3 Reddish Brown, fine grain, well sorted, well rounded, loose, soft, slightly moist	
30'							End of boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Project: 30137969.00003 Template: LPTemplate3.1 Page: 1 of 1
Data File: Candelario 24-1 Battery_SB27 Date: 9/26/2022 Created/Edited by: Nadja Cintron Franqui

Date Start/Finish: 09-09-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolan	**Well/Boring ID:** SB29 **Client:** Chevron Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0'					GM		Sandy Gravel 5YR 5/6 Yellow Red, some pebbles and gravel, trace silt and clay, very fine to fine grains, poorly sorted, subangular to subrounded, soft, loose, moist	
					GP		Gravel with Sand, 5 YR 5/3, Reddish Brown, gravel, fine to medium grains, no silt, poorly sorted, subangular to subrounded, medium stiff, dry	
4'							Silty Sand; 7.5 YR 6/4 Pink, fine to medium grain, trace very fine grain, some pebbles and gravel, poorly sorted, subrounded to subangular, medium stiff, loose, dry	
6'					SM		Sand; 10 YR 8/4 Very Pale Brown, some pebbles, gravel, trace silt, fine to coarse grain, subrounded to subangular, poorly sorted, medium stiff, loose, dry	
8'					GM		Sandy Gravel and Silt; 7/5 YR 6/6 Reddish Yellow, pebbles to fine grains, trace gravel, poorly sorted, subangular to subrounded, medium stiff, loose, dry	
10'							Sand; 7.5 YR 7/4 Pink, Medium to fine grain with some pebbles, subrounded to subangular, medium stiff, loose, dry	
12'							Silty Sand; 7.5 YR 8/4 Pink, fine to very fine grain, moderately to poorly sorted, rounded to subrounded, trace subangular, medium stiff, loose, dry. Gets slightly dark towards 18' bgs	
14'								
16'					SM			
18'							Silty Sand; 10 YR 7/3 Very Oale Brown, fine to very fine grain with trace pebbles, moderately to poorly sorted, subrounded to rounded, loose, medium stiff, dry	
20'								
22'					GP		Sandy Gravel; 10 YR 7/3 Very Pale Brown, poorly sorted, gravel to fine grain, no silt, subrounded to subangular, hard, loose, dry	
24'							Silty Sand; 10 YR 7/3 Very Pale Brown, very fine to fine grain, trace medium grain and pebbles, moderately to poorly sorted, rounded to subrounded, medium stiff, loose, dry	
26'					SM			
28'					CL		Sandy Clay; 7.5 YR 6/4 Light Brown, medium to fine grain, moderately sorted, soft, cohesive, well rounded to subrounded, moist	
30'							End of boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Project: 30137969.00003 Template: LPTemplate3.1 Page: 1 of 1
Data File: Candelario 24-1 Battery_SB29 Date: 9/23/2022 Created/Edited by: Nadja Cintron Franqui

Date Start/Finish: 09-09-2022 **Drilling Company:** Harrison Cooper Drilling **Driller's Name:** Kenny Cooper **Drilling Method:** Air Rotary **Sampling Method:** Grab **Rig Type:** N/A	**Latitude:** 32.292454 **Longitude:** -104.047866 **Casing Elevation:** Not Surveyed **Borehole Depth:** 30' **Surface Elevation:** Not Surveyed **Descriptions By:** Sarah Nolen	**Well/Boring ID:** SB30 **Client:** Environmental Management Company **Location:** Candelario 24-1 Battery

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0		0'			SM		Sllty Sand; 7/5 YR 6/3 Light Brown, fine to medium grain, trace very fine grain with trace pebbles and gravel, subangular to subrounded, poorly sorted, loose, medium stiff, dry	
					GM		Sandy Gravel with trace Silt; 7.5 YR 6/4 Light Brown, medium to fine grain with some gravel and pebbles, subrounded to rounded, poorly sorted, medium stiff, loose, dry	
5		4'					Silty Sand; 7.5 YR 8/4 Pink, fine to very fine grain with some pebbles, moderately sorted, subrounded to subangular, loose, medium stiff	
		6'						
		8'					Pebblesly Sand; 7.5 YR 6/4 Light Brown, very fine to fine trace gravel, some pebbles, poor to moderately sorted, subrounded to subangular, loose, medium stiff, trace silt, dry	
10		10'					Silty Sand; 7.5 YR 8/3 Pink, very fine to fine grain, some small pebbles, moderately sorted, subrounded to rounded, loose, medium stiff to soft, dry	
		12'			SM			
		14'					Silty Sand; 10 YR 8/3 Very Pale Brown, very fine to fine grain, moderately sorted with some trace small pebbles, subrounded, loose, medium stiff, dry	
15		16'						
		18'						
20		20'					Sandy Silt; 10 YR 8/4 Very Pale Brwon, very fine to fine grain, moderately sorted, rounded to subrounded, little pebbles, slightly cohesive, dry	
		22'						
		24'			ML		Sandy Silt; 10 YR 7/4 Very Pale Brown, vey fine to fine grain with some small pebbles, poor to moderately sorted, subrounded to rounded, cohesive, slightly moist	
25		26'						
		28'						
30		30'					End of Boring @ 30' bgs	

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Remarks: 1. Below Ground Surface (bgs)

Project: 30134558.00003 Template: LPTemplate3.1 Page: 1 of 1
Data File: Candelario 25-1 Battery_SB30 Date: 9/25/2022 Created/Edited by: Nadja Cintron Franqui

Appendix C

Cumulative Soil Analytical Results

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

ARCADIS

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-1	0-0.5'	09/29/20	***9,500***
	4'-5'	09/29/20	***2,880***
	9'-10'	09/29/20	***2,950***
	14'-15'	09/29/20	388
	19'-20'	09/29/20	179 F1
SB-2	0-0.5'	09/29/20	***14,600***
	4'-5'	09/29/20	***874***
	9'-10'	09/29/20	***1,380 F1***
	14'-15'	09/29/20	450
	19'-20'	09/29/20	571
SB-3	0-0.5'	09/29/20	***16,500***
	4'-5'	09/29/20	***1,300***
	9'-10'	09/29/20	155
	14'-15'	09/29/20	***638***
	19'-20'	09/29/20	102
SB-4	0-0.5'	09/29/20	***2,050 B***
	4'-5'	09/29/20	***1,200 B***
	9'-10'	09/29/20	320 B
	14'-15'	09/29/20	169 B
	19'-20'	09/29/20	8.69 B
SB-5	0-0.5'	09/29/20	***5,920 B***
	4'-5'	09/29/20	143 B
	9'-10'	09/29/20	495 B
	14'-15'	09/29/20	87.8 B
	19'-20'	09/29/20	193 B
SB-6	0-0.5'	09/30/20	***8,580 F1 B***
	4'-5'	09/30/20	***3,270 B***
	9'-10'	09/30/20	***1,030 B***
	14'-15'	09/30/20	316 B
	19'-20'	09/30/20	86.1 B
SB-7	0-0.5'	09/30/20	519 B
	4'-5'	09/30/20	***2,910 B***
	9'-10'	09/30/20	405 B
	14'-15'	09/30/20	***814 B***
	19'-20'	09/30/20	105 B
SB-8	0-0.5'	09/29/20	***8,800***
	4'-5'	09/29/20	***1,110***
	9'-10'	09/29/20	107
	14'-15'	09/29/20	124
	19'-20'	09/29/20	124

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

ARCADIS

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-9	0-0.5'	09/29/20	***7,210***
	4'-5'	09/29/20	228
	9'-10'	09/29/20	125
	14'-15'	09/29/20	***618***
	19'-20'	09/29/20	124 F1
SB-10	0-0.5'	09/29/20	***5,160***
	4'-5'	09/29/20	***1,480***
	9'-10'	09/29/20	***1,260***
	14'-15'	09/29/20	445
	19'-20'	09/29/20	243
SB-11	0-0.5'	09/30/20	***1,080 B***
	4'-5'	09/30/20	***715 B***
	9'-10'	09/30/20	371 B
	14'-15'	09/30/20	126
	19'-20'	09/30/20	244
SB-12	0-0.5'	09/30/20	***4,570 B***
	4'-5'	09/30/20	***943 B***
	9'-10'	09/30/20	***2,920 F1 B***
	14'-15'	09/30/20	***7,580 B***
	19'-20'	09/30/20	***1,260 B***
SB-13	0-0.5'	08/18/21	***974***
	4'-5'	08/18/21	69.3
	9'-10'	08/18/21	90.6
	14'-15'	08/18/21	385
	19'-20'	08/18/21	138
SB-14	0-0.5'	08/18/21	***11,000 V***
	4'-5'	08/18/21	***7,350***
	9'-10'	08/18/21	***1,160***
	14'-15'	08/18/21	283
	19'-20'	08/18/21	219
SB-15	0-0.5'	08/18/21	554
	4'-5'	08/18/21	287
	9'-10'	08/18/21	97.8
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	65.4
SB-16	0-0.5'	08/18/21	172
	4'-5'	08/18/21	175
	9'-10'	08/18/21	21.4
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	31.0

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-17	0-0.5'	08/18/21	172
	4'-5'	08/18/21	75.1
	9'-10'	08/18/21	193
	14'-15'	08/18/21	63.2
	19'-20'	08/18/21	138
SB-18	0-0.5'	08/19/21	83.1
	4'-5'	08/19/21	118
	9'-10'	08/19/21	37.1
	14'-15'	08/19/21	104
	19'-20'	08/19/21	89.1
SB-19	0-0.5'	08/19/21	329
	4'-5'	08/19/21	253
	9'-10'	08/19/21	78.9
	14'-15'	08/19/21	130
	19'-20'	08/19/21	293
SB-20	0-0.5'	08/19/21	***1,340***
	4'-5'	08/19/21	***724***
	9'-10'	08/19/21	580
	14'-15'	08/19/21	288
	19'-20'	08/19/21	555
SB-21	0-0.5'	08/19/21	***795***
	4'-5'	08/19/21	***4,050***
	9'-10'	08/19/21	***1,250***
	14'-15'	08/19/21	***3,530 J3 V***
	19'-20'	08/19/21	***1,420***
SB-22	0-0.5'	08/19/21	<9.89
	4'-5'	08/19/21	73.5
	9'-10'	08/19/21	***1,190***
	14'-15'	08/19/21	333
	19'-20'	08/19/21	137
SB-23	0-0.5'	08/19/21	68.9
	4'-5'	08/19/21	***1,540***
	9'-10'	08/19/21	404
	14'-15'	08/19/21	***680***
	19'-20'	08/19/21	491
TMW-1	0-0.5'	08/17/21	31.8
	4'-5'	08/17/21	***1,570***
	9'-10'	08/17/21	***721***
	14'-15'	08/17/21	***1,980***
	19'-20'	08/17/21	81.8
	24'-25'	08/17/21	231
	29'-30'	08/17/21	97.0

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
TMW-2	0-0.5'	08/18/21	<11.6
	4'-5'	08/18/21	82.6
	9'-10'	08/18/21	38.3
	14'-15'	08/18/21	44.4
	19'-20'	08/18/21	559
	24'-25'	08/18/21	202
	29'-30'	08/18/21	***1,030***
SB-24	0'	09/07/22	***976***
	4'	09/07/22	403
	6'	09/07/22	57.7 P1
	8'	09/07/22	13.8 J
	10'	09/07/22	11.5 J
	12'	09/07/22	24.1
	14'	09/07/22	116
	16'	09/07/22	116
	18'	09/07/22	53.0
	20'	09/07/22	129
	22'	09/07/22	29.1
	24'	09/07/22	36.1
	26'	09/07/22	30.7 P1
	28'	09/07/22	23.2 J
	30'	09/07/22	26.5
SB-25	0'	09/08/22	<25.1
	4'	09/08/22	38.7
	6'	09/08/22	36.9
	8'	09/08/22	11.0 J
	10'	09/08/22	62.3
	12'	09/08/22	45.3
	14'	09/08/22	140
	16'	09/08/22	51.7
	18'	09/08/22	42.2
	20'	09/08/22	83.0
	22'	09/08/22	67.3
	24'	09/08/22	43.2
	26'	09/08/22	<22.7
	28'	09/08/22	54.7
	30'	09/08/22	<23.4 P1
SB-26	0'	09/08/22	***1,520***
	4'	09/08/22	***1,470***
	6'	09/08/22	138
	8'	09/08/22	96.9
	10'	09/08/22	24.5
	12'	09/08/22	57.4
	14'	09/08/22	35.6
	16'	09/08/22	19.0 J
	18'	09/08/22	187
	20'	09/08/22	118 J3
	22'	09/08/22	221
	24'	09/08/22	90.7
	26'	09/08/22	<21.7
	28'	09/08/22	74.1
	30'	09/08/22	92.0

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

ARCADIS

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-27	0'	09/08/22	***5,600***
	4'	09/08/22	***949***
	6'	09/08/22	384
	8'	09/08/22	432
	10'	09/08/22	***794 J3***
	12'	09/08/22	232
	14'	09/08/22	267
	16'	09/08/22	***658***
	18'	09/08/22	329
	20'	09/08/22	345
	22'	09/08/22	***745***
	24'	09/08/22	***4,480***
	26'	09/08/22	***5,090***
	28'	09/08/22	***3,980***
	30'	09/08/22	531
SB-28	0'	09/08/22	***8,660***
	4'	09/08/22	***1,800***
	6'	09/08/22	***1,030***
	8'	09/08/22	***890***
	10'	09/08/22	***982***
	12'	09/08/22	193
	14'	09/08/22	148
	16'	09/08/22	186
	18'	09/08/22	524
	20'	09/08/22	350
	22'	09/08/22	379
	24'	09/08/22	327
	26'	09/08/22	383
	28'	09/08/22	386
	30'	09/08/22	442
SB-29	0'	09/09/22	***7,880***
	4'	09/09/22	***1,180***
	6'	09/09/22	***890***
	8'	09/09/22	***1,310***
	10'	09/09/22	***1,110 J3 J5***
	12'	09/09/22	***636***
	14'	09/09/22	***888***
	16'	09/09/22	***781***
	18'	09/09/22	320
	20'	09/09/22	98.8
	22'	09/09/22	160
	24'	09/09/22	162
	26'	09/09/22	***740***
	28'	09/09/22	***620***
	30'	09/09/22	***1,500***

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-30	0'	09/09/22	***2,220***
	4'	09/09/22	***1,860***
	6'	09/09/22	***1,200***
	8'	09/09/22	***1,590***
	10'	09/09/22	***719***
	12'	09/09/22	145
	14'	09/09/22	258
	16'	09/09/22	200
	18'	09/09/22	121
	20'	09/09/22	294
	22'	09/09/22	48.2
	24'	09/09/22	70.9
	26'	09/09/22	26.6
	28'	09/09/22	72.1
	30'	09/09/22	77.3

Legend:

BOLD = Analytes exceeding NMAC standard
F1: MS and/or MSD recovery exceeds control limits
B = The same analyte is found in the associated blank.
J = Result is less than the Reported Detection Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value
J3 = The associated batch QC was outside the established quality control range for precision.
J5: The sample matrix interfered with the ability to make any accurate determination; spike value is high
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.
'<' indicates the analyte was not detected at or above the MDL
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
" ' " : Indicates one foot
" : Indicated inches
bgs: below ground surface
SB : Soil Boring sample
TMW : Temporary Monitoring Well

Appendix D

Soil Laboratory Report

ANALYTICAL REPORT

September 20, 2022

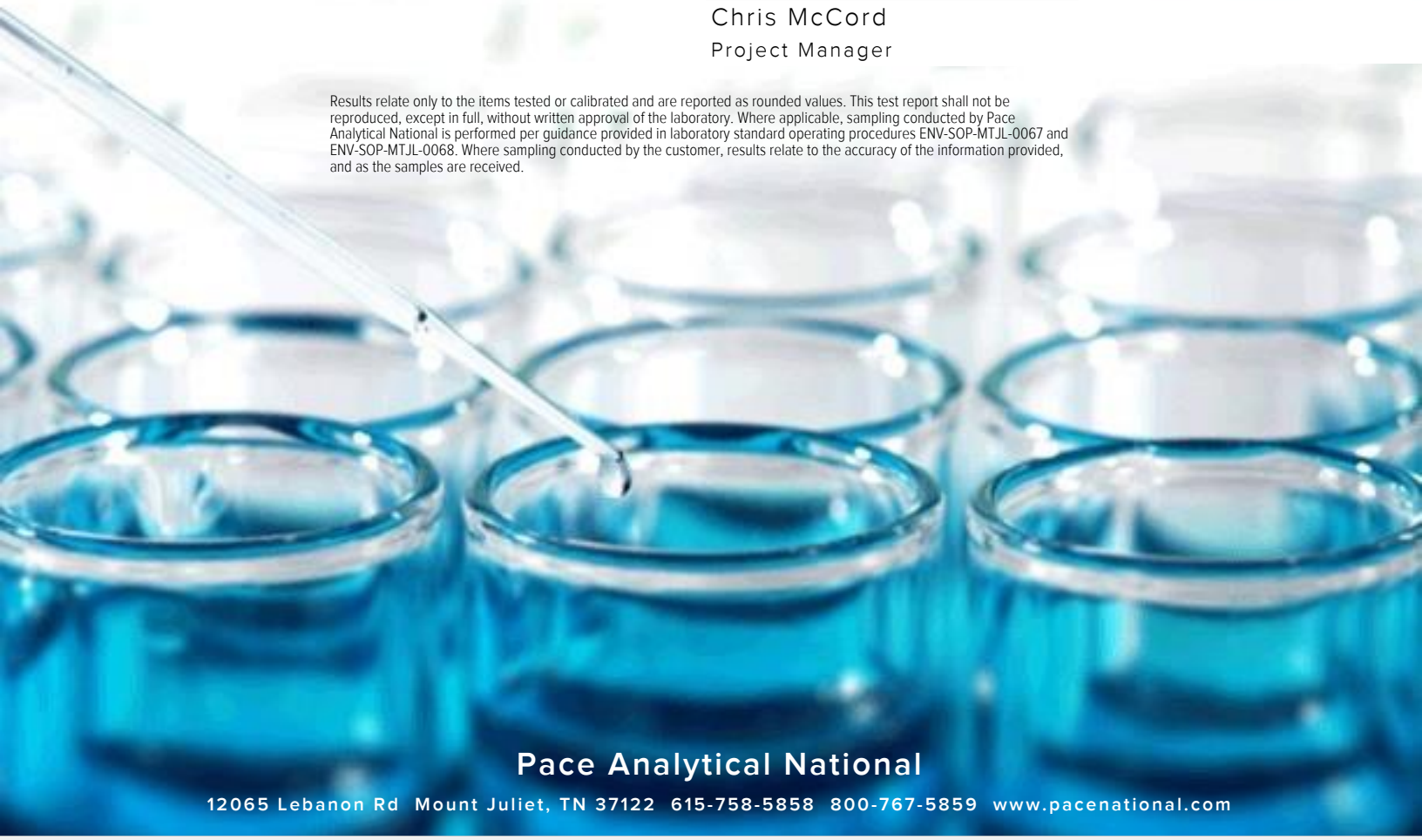
Arcadis - Chevron - NM

Sample Delivery Group:	L1534491
Samples Received:	09/10/2022
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 BATTERY
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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 National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SB24-S-0-220907 L1534491-01 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:33 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 16:40	GEB	Mt. Juliet, TN

SB24-S-4-220907 L1534491-02 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:34 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	5.1	09/14/22 12:25	09/14/22 16:49	GEB	Mt. Juliet, TN

SB24-S-6-220907 L1534491-03 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:35 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.01	09/14/22 12:25	09/14/22 16:58	GEB	Mt. Juliet, TN

SB24-S-8-220907 L1534491-04 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:36 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 17:36	GEB	Mt. Juliet, TN

SB24-S-10-220907 L1534491-05 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:37 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 18:05	GEB	Mt. Juliet, TN

SB24-S-12-220907 L1534491-06 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:38 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.02	09/14/22 12:25	09/14/22 18:14	GEB	Mt. Juliet, TN

SB24-S-14-220907 L1534491-07 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:39 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.01	09/14/22 12:25	09/14/22 18:24	GEB	Mt. Juliet, TN

SB24-S-16-220907 L1534491-08 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:40 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.01	09/14/22 12:25	09/14/22 18:33	GEB	Mt. Juliet, TN

SB24-S-18-220907 L1534491-09 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:41 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.02	09/14/22 12:25	09/14/22 18:43	GEB	Mt. Juliet, TN

SB24-S-20-220907 L1534491-10 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:41 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925267	1	09/15/22 11:01	09/15/22 11:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.03	09/14/22 12:25	09/14/22 18:52	GEB	Mt. Juliet, TN

SB24-S-22-220907 L1534491-11 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:42 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.05	09/14/22 12:25	09/14/22 19:02	GEB	Mt. Juliet, TN

SB24-S-24-220907 L1534491-12 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:43 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.05	09/14/22 12:25	09/14/22 19:12	GEB	Mt. Juliet, TN

SB24-S-26-220907 L1534491-13 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:44 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 19:21	GEB	Mt. Juliet, TN

SB24-S-28-220907 L1534491-14 Solid

Collected by: Sarah Nolen | Collected date/time: 09/07/22 11:45 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.04	09/14/22 12:25	09/14/22 20:08	GEB	Mt. Juliet, TN

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

SAMPLE SUMMARY

SB24-S-30-220907 L1534491-15 Solid

Collected by: Sarah Nolen
Collected date/time: 09/07/22 11:46
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 20:17	GEB	Mt. Juliet, TN

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.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	976		9.65	21.0	1	09/14/2022 16:40	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	403		52.1	113	5.1	09/14/2022 16:49	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	57.7	P1	9.65	21.0	1.01	09/14/2022 16:58	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.8	J	10.3	22.5	1	09/14/2022 17:36	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.5	J	9.86	21.4	1	09/14/2022 18:05	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.1		10.5	22.8	1.02	09/14/2022 18:14	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.7		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	164		11.2	24.4	1.01	09/14/2022 18:24	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.5		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	116		11.4	24.8	1.01	09/14/2022 18:33	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	53.0		10.1	22.0	1.02	09/14/2022 18:43	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.6		1	09/15/2022 11:19	WG1925267

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	129		12.4	26.9	1.03	09/14/2022 18:52	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	29.1		12.5	27.2	1.05	09/14/2022 19:02	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.7		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	36.1		12.4	27.0	1.05	09/14/2022 19:12	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.0		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	30.7	P1	11.7	25.3	1	09/14/2022 19:21	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.1		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	23.2	J	12.1	26.3	1.04	09/14/2022 20:08	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.8		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	26.5		11.1	24.2	1	09/14/2022 20:17	WG1925394

Method Blank (MB)

(MB) R3837937-1 09/15/22 11:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534491-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1534491-08 09/15/22 11:19 • (DUP) R3837937-3 09/15/22 11:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.5	82.4	1	1.07		10

Laboratory Control Sample (LCS)

(LCS) R3837937-2 09/15/22 11:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837935-1 09/15/22 10:59

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534501-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-02 09/15/22 10:59 • (DUP) R3837935-3 09/15/22 10:59

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.4	89.9	1	0.490		10

Laboratory Control Sample (LCS)

(LCS) R3837935-2 09/15/22 10:59

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837805-1 09/14/22 15:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534491-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1534491-03 09/14/22 16:58 • (DUP) R3837805-3 09/14/22 17:08

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	57.7	104	1.01	57.2	P1	20

L1534491-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1534491-13 09/14/22 19:21 • (DUP) R3837805-6 09/14/22 19:31

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	30.7	39.2	1	24.3	P1	20

Laboratory Control Sample (LCS)

(LCS) R3837805-2 09/14/22 16:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	191	95.3	90.0-110	

L1534491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534491-03 09/14/22 16:58 • (MS) R3837805-4 09/14/22 17:17 • (MSD) R3837805-5 09/14/22 17:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	519	57.7	548	604	94.4	105	1	80.0-120			9.67	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

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	LAO000356
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.

Company Name/Address:
Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Laing, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Volen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

CHLORIDE-300,TS 4ozClr-NoPres

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB24-S-0'-220907	G	SS	0'	09-07-22	1133	1	X		-01
SB24-S-4'-220907	G	SS	4'	09-07-22	1134	1	X		-02
SB24-S-6'-220907	G	SS	6'	09-07-22	1135	1	X		-03
SB24-S-8'-220907	G	SS	8'	09-07-22	1136	1	X		-04
SB24-S-10'-220907	G	SS	10'	09-07-22	1137	1	X		-05
SB24-S-12'-220907	G	SS	12'	09-07-22	1138	1	X		-06
SB24-S-14'-220907	G	SS	14'	09-07-22	1139	1	X		-07
SB24-S-16'-220907	G	SS	16'	09-07-22	1140	1	X		-08
SB24-S-18'-220907	G	SS	18'	09-07-22	1141	1	X		-09
SB24-S-18'-220907	G	SS	2220'	09-07-22	1141	1	X		-10

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534491

B188

Acctnum: CHEVARCNM

Template: T211186

Prelogin: P931861

PM: 526 - Chris McCord

PB: CP 7.6.22

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Sarah Volen	09/09/22 1700 SV	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 9/10/22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 2 of 4

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534491

Table #

Acctnum: CHEVARCNM

Template: T211186

Prelogin: P931861

PM: 526 - Chris McCord

PB: LR 7-6-22

Shipped Via: FedEX Ground

Company Name/Address:
Arcadis - Chevron - NM
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Nolan

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB24-S-22'-220907	G	SS	22'	09/07/22	1442	1	X		-11
SB24-S-24'-220907	G	SS	24'	09/07/22	1443	1	X		-12
SB24-S-26'-220907	G	SS	26'	09/07/22	1444	1	X		-13
SB24-S-28'-220907	G	SS	28'	09/07/22	1445	1	X		-14
SB24-S-30'-220907	G	SS	30'	09/07/22	1446	1	X		-15
		SS		09/07/22	30	1	X		
		SS				1	X		
		SS				1	X		
		SS				1	X		
		SS				1	X		

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP	Y N
COC Signed/Accurate:	Y N
Bottles arrive intact:	Y N
Correct bottles used:	Y N
Sufficient volume sent:	Y N
If Applicable	
VOA Zero Headspace:	Y N
Preservation Correct/Checked:	Y N
RAD Screen <0.5 mR/hr:	Y N

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by : (Signature) Sarah Nolan — Date: 09/09/22 — Time: 1700

Received by: (Signature)

Relinquished by : (Signature) — Date: — Time:

Received by: (Signature)

Relinquished by : (Signature) — Date: — Time:

Received for lab by: (Signature) — Date: — Time:

Hold:

Condition: NCF / OK

Tracking Numbers	Temperature
5671 5376 7411	5.4
5829 6697 3886	2.2
5829 6697 3458	5.0
5829 6697 3447	2.3

9/10 - NCF-L1534491 CHEVARCNM

R5

Time estimate: oh **Time spent:** oh

Members

Robert Rountree (responsible) Christopher McCord

Due on *16 September 2022 5:00 PM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [x] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time:9/12/22 10:10
- [x] PM initials: CM
- [ ] Client Contact:_____

Comments

Robert Rountree *10 September 2022 5:31 PM*

Sample Id on chain for -10 is "SB24-S-18'-220908" but has depth listed as 20'. Id on container is "SB24-S-20-220908" Logger Per Container ID.

Christopher McCord *12 September 2022 10:10 AM*

Keep as logged per container.

Troy Dunlap *12 September 2022 10:12 AM*

Done.

ANALYTICAL REPORT

September 20, 2022

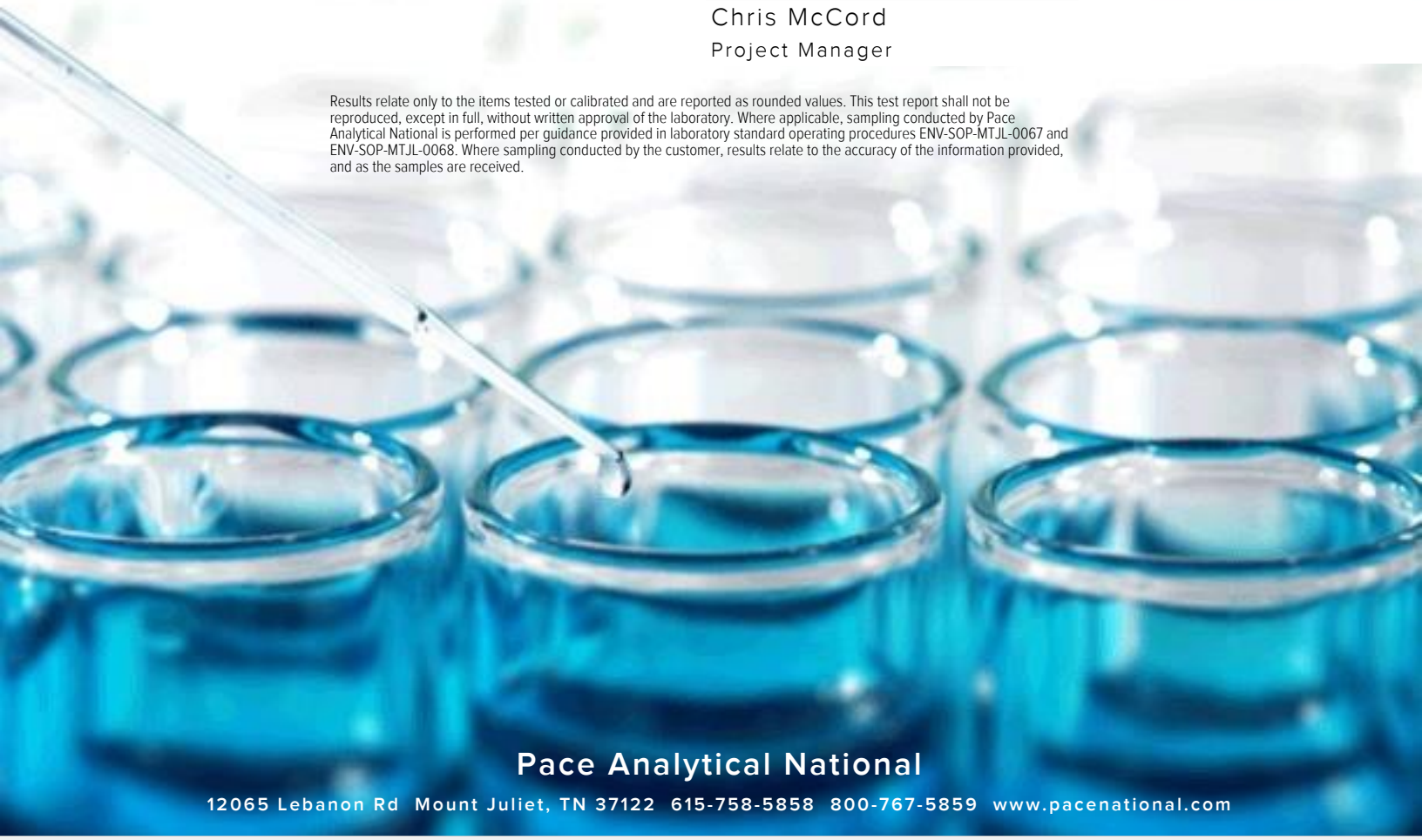
Arcadis - Chevron - NM

Sample Delivery Group:	L1534501
Samples Received:	09/10/2022
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 BATTERY
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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 National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SB-25-S-0-220908 L1534501-01 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:50 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.01	09/14/22 12:25	09/14/22 20:26	GEB	Mt. Juliet, TN

SB-25-S-4-220908 L1534501-02 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:50 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.02	09/14/22 12:25	09/14/22 20:36	GEB	Mt. Juliet, TN

SB-25-S-6-220908 L1534501-03 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:51 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.05	09/14/22 12:25	09/14/22 20:45	GEB	Mt. Juliet, TN

SB-25-S-8-220908 L1534501-04 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:52 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1	09/14/22 12:25	09/14/22 20:55	GEB	Mt. Juliet, TN

SB-25-S-10-220908 L1534501-05 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:52 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925269	1	09/15/22 10:43	09/15/22 10:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925394	1.03	09/14/22 12:25	09/14/22 21:04	GEB	Mt. Juliet, TN

SB-25-S-12-220908 L1534501-06 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:53 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1	09/13/22 13:11	09/13/22 19:12	LBR	Mt. Juliet, TN

SB-25-S-14-220908 L1534501-07 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:54 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.05	09/13/22 13:11	09/13/22 19:21	LBR	Mt. Juliet, TN

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

SB-25-S-16-220908 L1534501-08 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:55 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1	09/13/22 13:11	09/13/22 19:31	LBR	Mt. Juliet, TN

SB-25-S-18-220908 L1534501-09 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:55 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.02	09/13/22 13:11	09/13/22 19:40	LBR	Mt. Juliet, TN

SB-25-S-20-220908 L1534501-10 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:56 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.01	09/13/22 13:11	09/13/22 19:50	LBR	Mt. Juliet, TN

SB-25-S-22-220908 L1534501-11 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:57 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.01	09/13/22 13:11	09/13/22 19:59	LBR	Mt. Juliet, TN

SB-25-S-24-220908 L1534501-12 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:58 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.03	09/13/22 13:11	09/13/22 20:28	LBR	Mt. Juliet, TN

SB-25-S-26-220908 L1534501-13 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 07:59 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.03	09/13/22 14:13	09/13/22 22:13	GEB	Mt. Juliet, TN

SB-25-S-28-220908 L1534501-14 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 08:00 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/13/22 22:22	GEB	Mt. Juliet, TN

SB-25-S-30-220908 L1534501-15 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 08:01 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925270	1	09/15/22 10:21	09/15/22 10:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1	09/13/22 13:11	09/13/22 20:37	LBR	Mt. Juliet, TN

SB-26-S-0-220908 L1534501-16 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:22 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/13/22 22:32	GEB	Mt. Juliet, TN

SB-26-S-4-220908 L1534501-17 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:23 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.04	09/13/22 14:13	09/13/22 22:41	GEB	Mt. Juliet, TN

SB-26-S-6-220908 L1534501-18 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:42 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.02	09/13/22 14:13	09/13/22 22:51	GEB	Mt. Juliet, TN

SB-26-S-8-220908 L1534501-19 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:25 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.04	09/13/22 14:13	09/13/22 23:00	GEB	Mt. Juliet, TN

SB-26-S-10-220908 L1534501-20 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:26 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/13/22 23:10	GEB	Mt. Juliet, TN

SB-26-S-12-220908 L1534501-21 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:27 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.01	09/13/22 14:13	09/13/22 23:19	GEB	Mt. Juliet, TN

SB-26-S-14-220908 L1534501-22 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:28 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925272	1	09/14/22 10:12	09/14/22 10:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/13/22 23:48	GEB	Mt. Juliet, TN

SB-26-S-16-220908 L1534501-23 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:29 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/13/22 23:57	GEB	Mt. Juliet, TN

SB-26-S-18-220908 L1534501-24 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:30 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.05	09/13/22 14:13	09/14/22 00:07	GEB	Mt. Juliet, TN

SB-26-S-20-220908 L1534501-25 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:31 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925497	1.01	09/13/22 13:11	09/13/22 20:56	LBR	Mt. Juliet, TN

SB-26-S-22-220908 L1534501-26 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:32 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.02	09/13/22 14:13	09/14/22 00:16	GEB	Mt. Juliet, TN

SB-26-S-24-220908 L1534501-27 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:33 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.01	09/13/22 14:13	09/14/22 00:26	GEB	Mt. Juliet, TN

SB-26-S-26-220908 L1534501-28 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 09:34 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/14/22 00:35	GEB	Mt. Juliet, TN

SB-26-S-28-220908 L1534501-29 Solid

Collected by: Sarah Nolen
Collected date/time: 09/08/22 09:35
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/14/22 00:45	GEB	Mt. Juliet, TN

SB-26-S-30-220908 L1534501-30 Solid

Collected by: Sarah Nolen
Collected date/time: 09/08/22 09:36
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.02	09/13/22 14:13	09/14/22 00:54	GEB	Mt. Juliet, TN

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.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.6	25.1	1.01	09/14/2022 20:26	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.7		10.4	22.6	1.02	09/14/2022 20:36	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	36.9		11.1	24.1	1.05	09/14/2022 20:45	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.0	J	9.65	21.0	1	09/14/2022 20:55	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	09/15/2022 10:59	WG1925269

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	62.3		9.61	20.9	1.03	09/14/2022 21:04	WG1925394

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	45.3		9.35	20.3	1	09/13/2022 19:12	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	140		10.1	21.9	1.05	09/13/2022 19:21	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	51.7		9.40	20.4	1	09/13/2022 19:31	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	42.2		10.3	22.5	1.02	09/13/2022 19:40	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	83.0		9.53	20.7	1.01	09/13/2022 19:50	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.1		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	67.3		9.47	20.6	1.01	09/13/2022 19:59	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	43.2		9.82	21.3	1.03	09/13/2022 20:28	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.4	22.7	1.03	09/13/2022 22:13	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	54.7		9.46	20.6	1	09/13/2022 22:22	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	09/15/2022 10:38	WG1925270

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U	P1	10.8	23.4	1	09/13/2022 20:37	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1520		9.55	20.8	1	09/13/2022 22:32	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1470		9.90	21.5	1.04	09/13/2022 22:41	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	138		9.57	20.8	1.02	09/13/2022 22:51	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.8		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	96.9		9.68	21.0	1.04	09/13/2022 23:00	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.5		9.79	21.3	1	09/13/2022 23:10	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	57.4		10.6	23.1	1.01	09/13/2022 23:19	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	09/14/2022 10:19	WG1925272

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	35.6		10.5	22.9	1	09/13/2022 23:48	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	19.0	J	10.3	22.3	1	09/13/2022 23:57	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	187		10.1	21.9	1.05	09/14/2022 00:07	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	118	J3	9.50	20.7	1.01	09/13/2022 20:56	WG1925497

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	221		10.3	22.4	1.02	09/14/2022 00:16	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	90.7		9.66	21.0	1.01	09/14/2022 00:26	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.0	21.7	1	09/14/2022 00:35	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	74.1		9.64	21.0	1	09/14/2022 00:45	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	92.0		9.98	21.7	1.02	09/14/2022 00:54	WG1925528

Method Blank (MB)

(MB) R3837935-1 09/15/22 10:59

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534501-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-02 09/15/22 10:59 • (DUP) R3837935-3 09/15/22 10:59

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.4	89.9	1	0.490		10

Laboratory Control Sample (LCS)

(LCS) R3837935-2 09/15/22 10:59

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837932-1 09/15/22 10:38

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534501-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-07 09/15/22 10:38 • (DUP) R3837932-3 09/15/22 10:38

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.0	95.6	1	0.426		10

Laboratory Control Sample (LCS)

(LCS) R3837932-2 09/15/22 10:38

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837434-1 09/14/22 10:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534501-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-17 09/14/22 10:19 • (DUP) R3837434-3 09/14/22 10:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.7	97.0	1	0.350		10

Laboratory Control Sample (LCS)

(LCS) R3837434-2 09/14/22 10:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837920-1 09/15/22 10:18

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00600			

L1534501-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-27 09/15/22 10:18 • (DUP) R3837920-3 09/15/22 10:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.2	96.2	1	0.0462		10

Laboratory Control Sample (LCS)

(LCS) R3837920-2 09/15/22 10:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837805-1 09/14/22 15:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534491-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1534491-03 09/14/22 16:58 • (DUP) R3837805-3 09/14/22 17:08

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	57.7	104	1.01	57.2	P1	20

L1534491-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1534491-13 09/14/22 19:21 • (DUP) R3837805-6 09/14/22 19:31

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	30.7	39.2	1	24.3	P1	20

Laboratory Control Sample (LCS)

(LCS) R3837805-2 09/14/22 16:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	191	95.3	90.0-110	

L1534491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534491-03 09/14/22 16:58 • (MS) R3837805-4 09/14/22 17:17 • (MSD) R3837805-5 09/14/22 17:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	519	57.7	548	604	94.4	105	1	80.0-120			9.67	20

Method Blank (MB)

(MB) R3837351-1 09/13/22 16:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534501-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-15 09/13/22 20:37 • (DUP) R3837351-3 09/13/22 20:47

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	14.1	1.02	200	J P1	20

L1534501-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-25 09/13/22 20:56 • (DUP) R3837351-4 09/13/22 21:06

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	118	85.8	1	31.2	J3	20

Laboratory Control Sample (LCS)

(LCS) R3837351-2 09/13/22 16:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	194	97.1	90.0-110	

L1534501-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534501-25 09/13/22 20:56 • (MS) R3837351-5 09/13/22 21:15 • (MSD) R3837351-6 09/13/22 21:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	511	118	636	597	101	93.9	1	80.0-120			6.20	20

Method Blank (MB)

(MB) R3837802-1 09/13/22 21:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534512-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-05 09/14/22 01:42 • (DUP) R3837802-3 09/14/22 01:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	794	1010	1	24.3	J3	20

L1534520-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-05 09/14/22 02:01 • (DUP) R3837802-4 09/14/22 02:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1110	1670	1	40.2	J3	20

Laboratory Control Sample (LCS)

(LCS) R3837802-2 09/13/22 22:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	192	95.9	90.0-110	

L1534520-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534520-05 09/14/22 02:01 • (MS) R3837802-5 09/14/22 02:20 • (MSD) R3837802-6 09/14/22 02:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	583	1110	3770	4310	456	549	1	80.0-120	E J5	E J5	13.5	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
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.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

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	LAO000356
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.

Company Name/Address:
Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Allen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres										Remarks	Sample # (lab only)
SB25-S-0-220908	G	SS	0	09/08/22	0750	1	X											-01
SB25-S-4'-220908	G	SS	4	09/08/22	0750	1	X											-02
SB25-S-6'-220908	G	SS	6	09/08/22	0751	1	X											-03
SB25-S-8'-220908	G	SS	8	09/08/22	0752	1	X											-04
SB25-S-10'-220908	G	SS	10	09/08/22	0752	1	X											-05
SB25-S-12'-220908	G	SS	12	09/08/22	0753	1	X											-06
SB25-S-14'-220908	G	SS	14	09/08/22	0754	1	X											-07
SB25-S-16'-220908	G	SS	16	09/08/22	0755	1	X											-08
SB25-S-18'-220908	G	SS	18	09/08/22	0755	1	X											-09
SB25-S-20'-220908	G	SS	20	09/08/22	0756	1	X											-10

Analysis / Container / Preservative

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534501

B189

Acctnum: CHEVARCNM
Template: T211186
Prelogin: P931861
PM: 526 - Chris McCord
PB: DP 7-6-22
Shipped Via: FedEx Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Sarah Allen (Sarah Allen)	09/09/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/10/22 Time: 900	Hold: Condition: NCF / OK

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Company Name/Address:
Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Report to:
Sarah Johnson

Email To:
sarah.johnson@arcadis.com;william.foord@arc

Project Description:
Candelario 24-1 Battery

City/State Collected: Loving NM

Please Circle: PT MT CT ET

Phone: **432-687-5400**

Client Project #
30094129

Lab Project #
CHEVARCNM-CANDEL24-1

Collected by (print):
Sarah Nolen

Site/Facility ID #
CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

SDG # L1534501

Table #

Acctnum: **CHEVARCNM**

Template:**T211186**

Prelogin: **P931861**

PM: **526 - Chris McCord**

PB DP 7-6-22

Shipped Via: **FedEX Ground**

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Pres Chk	Remarks	Sample # (lab only)
SB25-S-22'-220908	G	SS	22'	09/08/22	0757	1	X			-11
SB25-S-24'-220908	G	SS	24'	09/08/22	0758	1	X			-12
SB25-S-26'-220908	G	SS	26'	09/08/22	0759	1	X			-13
SB25-S-28'-220908	G	SS	28'	09/08/22	800	1	X			-14
SB25-S-30'-220908	G	SS	30'	09/08/22	0801	1	X			-15
SB26-S-0'-220908	G	SS	0'	09/08/22	0922	1	X			-16
SB26-S-4'-220908	G	SS	4'	09/08/22	0923	1	X			-17
SB26-S-6'-220908	G	SS	6'	09/08/22	0924	1	X			-18
SB26-S-8'-220908	G	SS	8'	09/08/22	0925	1	X			-19
SB26-S-10'-220908	G	SS	10	09/08/22	0926	1	X			-20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: X N
Bottles arrive intact: X N
Correct bottles used: X N
Sufficient volume sent: X N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Sarah Nolen	09/09/22	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 9/10/22 Time: 900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Nolen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres									Remarks	Sample # (lab only)
SB26-S-12'-220908	G	SS	12'	09/08/22	0927	1	X										-21
SB26-S-14'-220908	G	SS	14'	09/08/22	0928	1	X										-22
SB26-S-16'-220908	G	SS	16'	09/08/22	0929	1	X										-23
SB26-S-18-220908	G	SS	18'	09/08/22	0930	1	X										-24
SB26-S-20'-220908	G	SS	20'	09/08/22	0931	1	X										-25
SB26-S-22'-220908	G	SS	22'	09/08/22	0932	1	X										-26
SB26-S-24'-220908	G	SS	24'	09/08/22	0933	1	X										-27
SB26-S-26'-220908	G	SS	26'	09/08/22	0934	1	X										-28
SB26-S-28'-220908	G	SS	28'	09/08/22	0935	1	X										-29
SB26-S-30'-220908	G	SS	30'	09/08/22	0936	1	X										-30

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534501

Table #

Acctnum: CHEVARCNM
Template: T211186
Prelogin: P931861
PM: 526 - Chris McCord
PB: CR 7.6.22

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Sarah Nolen	09/09/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/10/22 Time: 900	Hold: Condition: NCF OK

Tracking Numbers	Temperature
5671 5376 7411	5.4
5829 6697 3886	2.2
5829 6697 3458	5.0
5829 6697 3447	2.3

ANALYTICAL REPORT

September 20, 2022

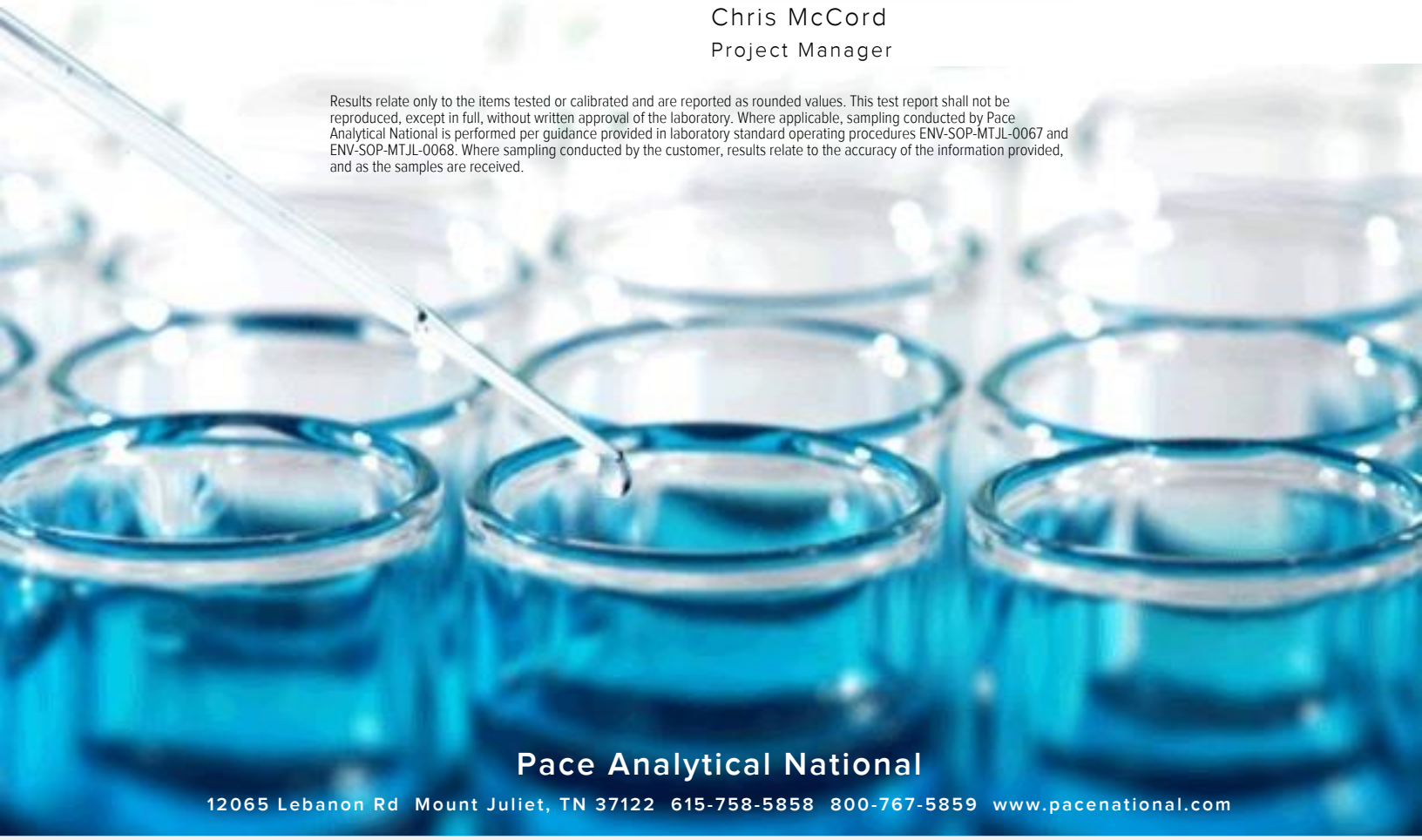
Arcadis - Chevron - NM

Sample Delivery Group:	L1534512
Samples Received:	09/10/2022
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 BATTERY
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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 National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SB-27-S-0-220908 L1534512-01 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:48 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	10.5	09/13/22 14:13	09/14/22 01:04	GEB	Mt. Juliet, TN

SB-27-S-4-220908 L1534512-02 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:49 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925274	1	09/15/22 10:01	09/15/22 10:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/14/22 01:14	GEB	Mt. Juliet, TN

SB-27-S-6-220908 L1534512-03 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:50 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1	09/14/22 13:36	09/14/22 21:52	GEB	Mt. Juliet, TN

SB-27-S-8-220908 L1534512-04 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:50 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.05	09/14/22 13:36	09/14/22 22:02	GEB	Mt. Juliet, TN

SB-27-S-10-220908 L1534512-05 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:51 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1.02	09/13/22 14:13	09/14/22 01:42	GEB	Mt. Juliet, TN

SB-27-S-12-220908 L1534512-06 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:51 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.01	09/14/22 13:36	09/14/22 22:11	GEB	Mt. Juliet, TN

SB-27-S-14-220908 L1534512-07 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:52 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.03	09/14/22 13:36	09/14/22 22:21	GEB	Mt. Juliet, TN

SB-27-S-16-220908 L1534512-08 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:52 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.02	09/14/22 13:36	09/14/22 22:30	GEB	Mt. Juliet, TN

SB-27-S-18-220908 L1534512-09 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:53 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.03	09/14/22 13:36	09/14/22 22:40	GEB	Mt. Juliet, TN

SB-27-S-20-220908 L1534512-10 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:53 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.04	09/14/22 13:36	09/14/22 22:49	GEB	Mt. Juliet, TN

SB-27-S-22-220908 L1534512-11 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:54 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.02	09/14/22 13:36	09/14/22 22:59	GEB	Mt. Juliet, TN

SB-27-S-26-220908 L1534512-12 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:55 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925559	1	09/15/22 09:47	09/15/22 09:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1928246	10.1	09/18/22 20:30	09/19/22 01:38	GEB	Mt. Juliet, TN

SB-27-S-28-220908 L1534512-13 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:56 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	10	09/15/22 01:45	09/15/22 03:54	GEB	Mt. Juliet, TN

SB-27-S-30-220908 L1534512-14 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:57 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.04	09/14/22 13:36	09/14/22 23:37	GEB	Mt. Juliet, TN

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

SB-27-S-24-220908 L1534512-15 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 10:55 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1928246	10.1	09/18/22 20:30	09/19/22 01:54	GEB	Mt. Juliet, TN

SB-28-S-0-220908 L1534512-16 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:05 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	10.2	09/14/22 13:36	09/15/22 00:24	GEB	Mt. Juliet, TN

SB-28-S-4-220908 L1534512-17 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:06 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	5	09/14/22 13:36	09/15/22 00:34	GEB	Mt. Juliet, TN

SB-28-S-6-220908 L1534512-18 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:07 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1	09/14/22 13:36	09/15/22 00:43	GEB	Mt. Juliet, TN

SB-28-S-8-220908 L1534512-19 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:08 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1	09/14/22 13:36	09/15/22 00:53	GEB	Mt. Juliet, TN

SB-28-S-10-220908 L1534512-20 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:09 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.04	09/14/22 13:36	09/15/22 01:21	GEB	Mt. Juliet, TN

SB-28-S-12-220908 L1534512-21 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:10 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.05	09/14/22 13:36	09/15/22 01:31	GEB	Mt. Juliet, TN

SB-28-S-14-220908 L1534512-22 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:10 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925560	1	09/15/22 09:28	09/15/22 09:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1	09/14/22 13:36	09/15/22 01:41	GEB	Mt. Juliet, TN

SB-28-S-16-220908 L1534512-23 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:11 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1	09/14/22 13:36	09/15/22 01:50	GEB	Mt. Juliet, TN

SB-28-S-18-220908 L1534512-24 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:12 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.02	09/15/22 01:45	09/15/22 04:04	GEB	Mt. Juliet, TN

SB-28-S-20-220908 L1534512-25 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:13 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925578	1.01	09/14/22 13:36	09/15/22 02:00	GEB	Mt. Juliet, TN

SB-28-S-22-220908 L1534512-26 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:14 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 04:13	GEB	Mt. Juliet, TN

SB-28-S-24-220908 L1534512-27 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:15 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.01	09/15/22 01:45	09/15/22 04:23	GEB	Mt. Juliet, TN

SB-28-S-26-220908 L1534512-28 Solid

Collected by: Sarah Nolen | Collected date/time: 09/08/22 12:16 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 04:32	GEB	Mt. Juliet, TN

SB-28-S-28-220908 L1534512-29 Solid

Collected by: Sarah Nolen
Collected date/time: 09/08/22 12:17
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 04:42	GEB	Mt. Juliet, TN

SB-28-S-30-220908 L1534512-30 Solid

Collected by: Sarah Nolen
Collected date/time: 09/08/22 12:18
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 04:51	GEB	Mt. Juliet, TN

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.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.4		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	5600		112	243	10.5	09/14/2022 01:04	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	09/15/2022 10:18	WG1925274

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	949		11.0	24.0	1	09/14/2022 01:14	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	384		10.2	22.2	1	09/14/2022 21:52	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	432		10.5	22.7	1.05	09/14/2022 22:02	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	794	J3	11.1	24.2	1.02	09/14/2022 01:42	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	232		9.77	21.3	1.01	09/14/2022 22:11	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	267		9.70	21.1	1.03	09/14/2022 22:21	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	658		9.66	21.0	1.02	09/14/2022 22:30	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	329		10.3	22.3	1.03	09/14/2022 22:40	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	345		10.8	23.5	1.04	09/14/2022 22:49	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.1		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	745		10.6	23.2	1.02	09/14/2022 22:59	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	09/15/2022 09:54	WG1925559

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	5090		108	234	10.1	09/19/2022 01:38	WG1928246

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.4		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3980		116	252	10	09/15/2022 03:54	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.0		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	531		12.3	26.7	1.04	09/14/2022 23:37	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4480		109	236	10.1	09/19/2022 01:54	WG1928246

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	8660		113	245	10.2	09/15/2022 00:24	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.4		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1800		61.8	134	5	09/15/2022 00:34	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1030		11.0	23.8	1	09/15/2022 00:43	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	890		10.8	23.5	1	09/15/2022 00:53	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.5		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	982		11.3	24.6	1.04	09/15/2022 01:21	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	193		11.0	24.0	1.05	09/15/2022 01:31	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	09/15/2022 09:37	WG1925560

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	148		10.4	22.7	1	09/15/2022 01:41	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	186		9.78	21.3	1	09/15/2022 01:50	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	524		9.66	21.0	1.02	09/15/2022 04:04	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	350		9.62	20.9	1.01	09/15/2022 02:00	WG1925578

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	379		9.55	20.8	1	09/15/2022 04:13	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	327		9.63	20.9	1.01	09/15/2022 04:23	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	383		9.58	20.8	1	09/15/2022 04:32	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	386		9.51	20.7	1	09/15/2022 04:42	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	442		9.54	20.7	1	09/15/2022 04:51	WG1925733

Method Blank (MB)

(MB) R3837920-1 09/15/22 10:18

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00600			

L1534501-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1534501-27 09/15/22 10:18 • (DUP) R3837920-3 09/15/22 10:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.2	96.2	1	0.0462		10

Laboratory Control Sample (LCS)

(LCS) R3837920-2 09/15/22 10:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837902-1 09/15/22 09:54

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1534512-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-07 09/15/22 09:54 • (DUP) R3837902-3 09/15/22 09:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.8	97.7	1	0.100		10

Laboratory Control Sample (LCS)

(LCS) R3837902-2 09/15/22 09:54

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837894-1 09/15/22 09:37

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1534512-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-17 09/15/22 09:37 • (DUP) R3837894-3 09/15/22 09:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.4	75.6	1	1.51		10

Laboratory Control Sample (LCS)

(LCS) R3837894-2 09/15/22 09:37

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837892-1 09/15/22 09:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534512-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-27 09/15/22 09:19 • (DUP) R3837892-3 09/15/22 09:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.5	96.5	1	0.0173		10

Laboratory Control Sample (LCS)

(LCS) R3837892-2 09/15/22 09:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837802-1 09/13/22 21:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534512-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-05 09/14/22 01:42 • (DUP) R3837802-3 09/14/22 01:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	794	1010	1	24.3	J3	20

L1534520-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-05 09/14/22 02:01 • (DUP) R3837802-4 09/14/22 02:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1110	1670	1	40.2	J3	20

Laboratory Control Sample (LCS)

(LCS) R3837802-2 09/13/22 22:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	192	95.9	90.0-110	

L1534520-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534520-05 09/14/22 02:01 • (MS) R3837802-5 09/14/22 02:20 • (MSD) R3837802-6 09/14/22 02:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	583	1110	3770	4310	456	549	1	80.0-120	E J5	E J5	13.5	20

Method Blank (MB)

(MB) R3837812-1 09/14/22 21:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534512-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-25 09/15/22 02:00 • (DUP) R3837812-6 09/15/22 02:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	350	308	1.03	13.0		20

Laboratory Control Sample (LCS)

(LCS) R3837812-2 09/14/22 21:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	190	95.0	90.0-110	

L1534512-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534512-15 09/14/22 23:46 • (MS) R3837812-4 09/15/22 00:05 • (MSD) R3837812-5 09/15/22 00:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	584	1510	3270	3430	302	329	1.01	80.0-120	E J5	E J5	4.64	20

Method Blank (MB)

(MB) R3837909-1 09/15/22 03:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534520-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-15 09/15/22 07:24 • (DUP) R3837909-3 09/15/22 07:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1500	1420	1.03	5.23		20

L1534520-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-25 09/15/22 07:43 • (DUP) R3837909-4 09/15/22 07:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	294	317	1	7.35		20

Laboratory Control Sample (LCS)

(LCS) R3837909-2 09/15/22 03:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.3	90.0-110	

L1534520-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534520-25 09/15/22 07:43 • (MS) R3837909-5 09/15/22 08:02 • (MSD) R3837909-6 09/15/22 08:11

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	516	294	817	770	101	92.1	1	80.0-120			5.91	20

Method Blank (MB)

(MB) R3838783-1 09/18/22 21:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1535279-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1535279-03 09/19/22 02:45 • (DUP) R3838783-3 09/19/22 03:02

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1.03	0.000		20

L1535557-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1535557-02 09/19/22 06:25 • (DUP) R3838783-6 09/19/22 06:42

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3838783-2 09/18/22 22:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	204	102	90.0-110	

L1535279-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1535279-03 09/19/22 02:45 • (MS) R3838783-4 09/19/22 03:19 • (MSD) R3838783-5 09/19/22 04:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	U	519	525	104	105	1.03	80.0-120			1.04	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

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.

Chain of Custody

Page 1 of 2

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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534512

B190

Acctnum: CHEVA...

Template: T211186

Prelogin: P931861

PM: 526 - Chris McCord

PB: CR 7-6-22

Shipped Via: FedEx Ground

Company Name/Address:
Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland, TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to:
Sarah Johnson

Email To:
sarah.johnson@arcadis.com;william.foord@arc

Project Description:
Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project #
30094129

Lab Project #
CHEVARCNM-CANDEL24-1

Collected by (print):
Sarah Volen

Site/Facility ID #
CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4oz Clr-NoPres	Remarks	Sample # (lab only)
SB27-S-0'-220908	G	SS	0'	09/08/22	1048	1	X		-01
SB27-S-4'-220908	G	SS	4'	09/08/22	1049	1	X		-02
SB27-S-6'-220908	G	SS	6'	09/08/22	1050	1	X		-03
SB27-S-8'-220908	G	SS	8'	09/08/22	1050	1	X		-04
SB27-S-10'-220908	G	SS	10'	09/08/22	1051	1	X		-05
SB27-S-12'-220908	G	SS	12'	09/08/22	1051	1	X		-06
SB27-S-14'-220908	G	SS	14'	09/08/22	1052	1	X		-07
SB27-S-16'-220908	G	SS	16'	09/08/22	1052	1	X		-08
SB27-S-18'-220908	G	SS	18'	09/08/22	1053	1	X		-09
SB27-S-20'-220908	G	SS	20'	09/08/22	1053	1	X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

	Date:	Time:		
Relinquished by: (Signature) Sarah Volen	09/09/22	1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) M. Walsh	Date: 9/10/22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody — Page 2 of 4

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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Company Name/Address:
Arcadis - Chevron - NM
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Uden

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

SDG # L1534512

Table #

Acctnum: CHEVARCNM

Template: T211186

Prelogin: P931861

PM: 526 - Chris McCord

PB: CR 7.6.22

Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB27-S-22'-220908	G	SS	22'	09/08/22	1054	1	X		-11
SB27-S-26'-220908	G	SS	24'-26'	09/08/22	1055	1	X		-12
SB27-S-28'-220908	G	SS	28'	09/08/22	1056	1	X		-13
SB27-S-30'-220908	G	SS	30'	09/08/22	1057	1	X		-14
SB27-S-24'-220908	G	SS	30'-24'	09/08/22	1055	1	X		-15
SB28-S-0'-220908	G	SS	0'	09/08/22	1205	1	X		-16
SB28-S-4'-220908	G	SS	4'	09/08/22	1206	1	X		-17
SB28-S-6'-220908	G	SS	6'	09/08/22	1207	1	X		-18
SB28-S-8'-220908	G	SS	8'	09/08/22	1208	1	X		-19
SB28-S-10'-220908	G	SS	10	09/08/22	1209	1	X		-20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by : (Signature) Sarah Uden	09/09/22	1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) M. Webb	Date: 9/10/22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Uden

Collected by (signature):

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

CHLORIDE-300,TS 4ozClr-NoPres

Chain of Custody

Page 2 of 2

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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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SDG # L1534512

Table #

Acctnum: CHEVARCNM
Template: T211186
Prelogin: P931861
PM: 526 - Chris McCord
PB: CR 7.6.22

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB28-S-12'-220908	G	SS	12'	09/08/22	1210	1	X		-21
SB28-S-14'-220908	G	SS	14'	09/08/22	1216	1	X		-22
SB28-S-16'-220908	G	SS	16'	09/08/22	1211	1	X		-23
SB28-S-18'-220908	G	SS	18'	09/08/22	1212	1	X		-24
SB28-S-20'-220908	G	SS	20'	09/08/22	1213	1	X		-25
SB28-S-22'-220908	G	SS	22'	09/08/22	1214	1	X		-26
SB28-S-24'-220908	G	SS	24'	09/08/22	1215	1	X		-27
SB28-S-26'-220908	G	SS	26'	09/08/22	1216	1	X		-28
SB28-S-28'-220908	G	SS	28'	09/08/22	1217	1	X		-29
SB28-S-30'-220908	G	SS	30'	09/08/22	1218	1	X		-30

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature) Sarah Uden	Date: 09/09/22	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/10/22 Time: 900	Hold: / Condition: NCF / OK

Tracking Numbers	Temperature
5671 5376 7411	5.4
5829 6697 3886	2.2
5829 6697 3458	5.0
5829 6697 3447	2.3

ANALYTICAL REPORT

September 20, 2022

Arcadis - Chevron - NM

Sample Delivery Group:	L1534520
Samples Received:	09/10/2022
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 BATTERY
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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 National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SB29-S-0-220909 L1534520-01 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:36 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	20.8	09/15/22 01:45	09/15/22 05:20	GEB	Mt. Juliet, TN

SB29-S-4-220909 L1534520-02 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:36 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925561	1	09/15/22 09:12	09/15/22 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 05:30	GEB	Mt. Juliet, TN

SB29-S-6-220909 L1534520-03 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:37 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.03	09/15/22 11:02	09/15/22 14:01	GEB	Mt. Juliet, TN

SB29-S-8-220909 L1534520-04 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:38 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.03	09/15/22 01:45	09/15/22 05:39	GEB	Mt. Juliet, TN

SB29-S-10-220909 L1534520-05 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:39 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925528	1	09/13/22 14:13	09/14/22 02:01	GEB	Mt. Juliet, TN

SB29-S-12-220909 L1534520-06 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:39 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 05:49	GEB	Mt. Juliet, TN

SB29-S-14-220909 L1534520-07 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:40 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 05:58	GEB	Mt. Juliet, TN

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

SB29-S-16-220909 L1534520-08 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:41 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.01	09/15/22 01:45	09/15/22 06:08	GEB	Mt. Juliet, TN

SB29-S-18-220909 L1534520-09 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:41 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 06:17	GEB	Mt. Juliet, TN

SB29-S-20-220909 L1534520-10 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:42 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 06:27	GEB	Mt. Juliet, TN

SB29-S-22-220909 L1534520-11 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:43 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.04	09/15/22 01:45	09/15/22 06:36	GEB	Mt. Juliet, TN

SB29-S-24-220909 L1534520-12 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:44 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925562	1	09/15/22 09:02	09/15/22 09:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.03	09/15/22 01:45	09/15/22 06:46	GEB	Mt. Juliet, TN

SB29-S-26-220909 L1534520-13 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:45 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1.02	09/15/22 01:45	09/15/22 07:14	GEB	Mt. Juliet, TN

SB29-S-28-220909 L1534520-14 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:46 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 14:10	GEB	Mt. Juliet, TN

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

SB29-S-30-220909 L1534520-15 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 07:47 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 07:24	GEB	Mt. Juliet, TN

SB30-S-0-220909 L1534520-16 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:16 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	10.2	09/15/22 11:02	09/15/22 14:19	GEB	Mt. Juliet, TN

SB30-S-4-220909 L1534520-17 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:18 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	10.3	09/15/22 11:02	09/15/22 14:29	GEB	Mt. Juliet, TN

SB30-S-6-220909 L1534520-18 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:19 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 14:39	GEB	Mt. Juliet, TN

SB30-S-8-220909 L1534520-19 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:20 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 14:48	GEB	Mt. Juliet, TN

SB30-S-10-220909 L1534520-20 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:21 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.05	09/15/22 11:02	09/15/22 14:58	GEB	Mt. Juliet, TN

SB30-S-12-220909 L1534520-21 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:22 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.03	09/15/22 11:02	09/15/22 15:26	GEB	Mt. Juliet, TN

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

SB30-S-14-220909 L1534520-22 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:23 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925564	1	09/15/22 14:21	09/15/22 14:37	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 15:36	GEB	Mt. Juliet, TN

SB30-S-16-220909 L1534520-23 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:24 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1927229	1	09/15/22 21:17	09/16/22 03:06	GEB	Mt. Juliet, TN

SB30-S-18-220909 L1534520-24 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:25 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.05	09/15/22 11:02	09/15/22 15:45	GEB	Mt. Juliet, TN

SB30-S-20-220909 L1534520-25 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:26 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1925733	1	09/15/22 01:45	09/15/22 07:43	GEB	Mt. Juliet, TN

SB30-S-22-220909 L1534520-26 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:27 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.03	09/15/22 11:02	09/15/22 15:55	GEB	Mt. Juliet, TN

SB30-S-24-220909 L1534520-27 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:28 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.05	09/15/22 11:02	09/15/22 16:04	GEB	Mt. Juliet, TN

SB30-S-26-220909 L1534520-28 Solid

Collected by: Sarah Nolen | Collected date/time: 09/09/22 09:29 | Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 16:14	GEB	Mt. Juliet, TN

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

SB30-S-28-220909 L1534520-29 Solid

Collected by: Sarah Nolen
Collected date/time: 09/09/22 09:30
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1	09/15/22 11:02	09/15/22 16:23	GEB	Mt. Juliet, TN

SB30-S-30-220909 L1534520-30 Solid

Collected by: Sarah Nolen
Collected date/time: 09/09/22 09:32
Received date/time: 09/10/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1925566	1	09/15/22 13:47	09/15/22 14:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1926030	1.05	09/15/22 11:02	09/15/22 16:33	GEB	Mt. Juliet, TN

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.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	7880		228	496	20.8	09/15/2022 05:20	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	09/15/2022 09:19	WG1925561

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1180		10.3	22.3	1	09/15/2022 05:30	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	890		10.3	22.3	1.03	09/15/2022 14:01	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1310		10.1	22.0	1.03	09/15/2022 05:39	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1110	J3 J5	10.7	23.3	1	09/14/2022 02:01	WG1925528

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	636		9.99	21.7	1	09/15/2022 05:49	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.7		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	888		9.82	21.3	1	09/15/2022 05:58	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	781		10.0	21.8	1.01	09/15/2022 06:08	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	320		10.7	23.3	1	09/15/2022 06:17	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	98.8		10.1	22.0	1	09/15/2022 06:27	WG1925733

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	160		10.4	22.7	1.04	09/15/2022 06:36	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/15/2022 09:09	WG1925562

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	162		10.3	22.4	1.03	09/15/2022 06:46	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	740		9.62	20.9	1.02	09/15/2022 07:14	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	620		9.56	20.8	1	09/15/2022 14:10	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1500		10.9	23.6	1	09/15/2022 07:24	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2220		101	219	10.2	09/15/2022 14:19	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1860		99.1	215	10.3	09/15/2022 14:29	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.8		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1200		9.31	20.2	1	09/15/2022 14:39	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1590		9.41	20.5	1	09/15/2022 14:48	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	719		10.6	23.0	1.05	09/15/2022 14:58	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	145		10.3	22.3	1.03	09/15/2022 15:26	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	09/15/2022 14:37	WG1925564

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	258		9.84	21.4	1	09/15/2022 15:36	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	200		9.86	21.4	1	09/16/2022 03:06	WG1927229

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	121		10.1	22.0	1.05	09/15/2022 15:45	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	294		9.50	20.7	1	09/15/2022 07:43	WG1925733

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	48.2		10.1	22.1	1.03	09/15/2022 15:55	WG1926030

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	70.9		10.1	21.9	1.05	09/15/2022 16:04	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	26.6		10.2	22.1	1	09/15/2022 16:14	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	72.1		9.96	21.6	1	09/15/2022 16:23	WG1926030

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	09/15/2022 14:18	WG1925566

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	77.3		10.6	23.1	1.05	09/15/2022 16:33	WG1926030

Method Blank (MB)

(MB) R3837892-1 09/15/22 09:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1534512-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-27 09/15/22 09:19 • (DUP) R3837892-3 09/15/22 09:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.5	96.5	1	0.0173		10

Laboratory Control Sample (LCS)

(LCS) R3837892-2 09/15/22 09:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837891-1 09/15/22 09:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1534520-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-07 09/15/22 09:09 • (DUP) R3837891-3 09/15/22 09:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.7	92.9	1	0.893		10

Laboratory Control Sample (LCS)

(LCS) R3837891-2 09/15/22 09:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3838004-1 09/15/22 14:37

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1534520-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-17 09/15/22 14:37 • (DUP) R3838004-3 09/15/22 14:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.6	93.9	1	1.82		10

Laboratory Control Sample (LCS)

(LCS) R3838004-2 09/15/22 14:37

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3838002-1 09/15/22 14:18

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1534520-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-27 09/15/22 14:18 • (DUP) R3838002-3 09/15/22 14:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.9	96.0	1	0.104		10

Laboratory Control Sample (LCS)

(LCS) R3838002-2 09/15/22 14:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3837802-1 09/13/22 21:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534512-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534512-05 09/14/22 01:42 • (DUP) R3837802-3 09/14/22 01:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	794	1010	1	24.3	J3	20

L1534520-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-05 09/14/22 02:01 • (DUP) R3837802-4 09/14/22 02:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1110	1670	1	40.2	J3	20

Laboratory Control Sample (LCS)

(LCS) R3837802-2 09/13/22 22:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	192	95.9	90.0-110	

L1534520-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534520-05 09/14/22 02:01 • (MS) R3837802-5 09/14/22 02:20 • (MSD) R3837802-6 09/14/22 02:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	583	1110	3770	4310	456	549	1	80.0-120	E J5	E J5	13.5	20

Method Blank (MB)

(MB) R3837909-1 09/15/22 03:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534520-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-15 09/15/22 07:24 • (DUP) R3837909-3 09/15/22 07:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1500	1420	1.03	5.23		20

L1534520-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1534520-25 09/15/22 07:43 • (DUP) R3837909-4 09/15/22 07:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	294	317	1	7.35		20

Laboratory Control Sample (LCS)

(LCS) R3837909-2 09/15/22 03:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.3	90.0-110	

L1534520-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534520-25 09/15/22 07:43 • (MS) R3837909-5 09/15/22 08:02 • (MSD) R3837909-6 09/15/22 08:11

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	516	294	817	770	101	92.1	1	80.0-120			5.91	20

Method Blank (MB)

(MB) R3837918-1 09/15/22 13:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1535088-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1535088-01 09/15/22 16:42 • (DUP) R3837918-3 09/15/22 16:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6260	5850	10	6.74		20

L1535658-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1535658-07 09/15/22 17:58 • (DUP) R3837918-6 09/15/22 18:08

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.90	9.80	1	0.991	J	20

Laboratory Control Sample (LCS)

(LCS) R3837918-2 09/15/22 13:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	187	93.3	90.0-110	

L1535088-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1535088-01 09/15/22 16:42 • (MS) R3837918-4 09/15/22 17:20 • (MSD) R3837918-5 09/15/22 17:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	579	6260	6690	6870	74.5	105	10	80.0-120	V		2.57	20

Method Blank (MB)

(MB) R3838036-1 09/15/22 22:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1534974-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1534974-03 09/16/22 04:26 • (DUP) R3838036-3 09/16/22 04:41

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	24.9	22.5	1	10.0	J	20

L1535729-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1535729-01 09/16/22 05:45 • (DUP) R3838036-6 09/16/22 06:01

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3838036-2 09/15/22 22:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	202	101	90.0-110	

L1534974-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534974-03 09/16/22 04:26 • (MS) R3838036-4 09/16/22 04:57 • (MSD) R3838036-5 09/16/22 05:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	613	24.9	609	628	95.3	98.3	1	80.0-120			3.03	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
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.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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.

Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Dolen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1534520

B191

Acctnum: CHEVARCNM
Template: T211186
Prelogin: P931861
PM: 526 - Chris McCord
PB: DR 7-6-22

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB29-S-0'-220909	G	SS	0'	09/09/22	0736	1	X		-01
SB29-S-4'-220909	G	SS	4'	09/09/22	0736	1	X		-02
SB29-S-6'-220909	G	SS	6'	09/09/22	0737	1	X		-03
SB29-S-8'-220909	G	SS	8'	09/09/22	0738	1	X		-04
SB29-S-10'-220909	G	SS	10'	09/09/22	0739	1	X		-05
SB29-S-12'-220909	G	SS	12'	09/09/22	0739	1	X		-06
SB29-S-14'-220909	G	SS	14'	09/09/22	0746	1	X		-07
SB29-S-16'-220909	G	SS	16'	09/09/22	0741	1	X		-08
SB29-S-18'-220909	G	SS	18'	09/09/22	0741	1	X		-09
SB29-S-20'-220909	G	SS	20'	09/09/22	0742	1	X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Sarah Dolen	09/09/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/10/22 Time: 900	Hold: Condition: NCF / OK

Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland, TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Nolen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
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SDG # L1534520

Table #

Acctnum: CHEVARCNM
Template: T211186
Prelogin: P931861
PM: 526 - Chris McCord
PB: CR 7.6.22

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB29-S-22'-220909	G	SS	22	09/09/22	0743	1	X		- 11
SB29-S-24'-220909	G	SS	24	09/09/22	0744	1	X		- 12
SB29-S-26'-220909	G	SS	26	09/09/22	0745	1	X		- 13
SB29-S-28'-220909	G	SS	28	09/09/22	0746	1	X		- 14
SB29-S-30-220909	G	SS	30	09/09/22	0747	1	X		- 15
SB30-S-0-220909	G	SS	0'	09/09/22	0916	1	X		- 16
SB30-S-4'-220909	G	SS	4'	09/09/22	0918	1	X		- 17
SB30-S-6'-220909	G	SS	6'	09/09/22	0919	1	X		- 18
SB30-S-8'-220909	G	SS	8'	09/09/22	0920	1	X		- 19
SB30-S-10'-220909	G	SS	10'	09/09/22	0921	1	X		- 20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by: (Signature) Sarah Nolen	Date: 09/09/22	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) M. Wilson	Date: 9/10/22 Time: 900	Hold: Condition: NCF / OK

Chain of Custody

Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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Company Name/Address:
Arcadis - Chevron - NM

1004 N Big Spring Street
Suite 121
Midland, TX 79701

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Pres Chk

Report to:
Sarah Johnson

Email To:
sarah.johnson@arcadis.com;william.foord@arc

Project Description:
Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT MT CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Sarah Nolen

Site/Facility ID # CANDELARIO 24-1 BATTERY

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

SDG # L1534520

Table #

Acctnum: CHEVARCNM

Template: T211186

Prelogin: P931861

PM: 526 - Chris McCord

PB: LR 7.6.22

Shipped Via: FedEx Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300,TS 4ozClr-NoPres	Remarks	Sample # (lab only)
SB30-S-12'-220909	G	SS	12'	09/09/22	0922	1	X		-21
SB30-S-14'-220909	G	SS	14'	09/09/22	0923	1	X		-22
SB30-S-16'-220909	G	SS	16'	09/09/22	0924	1	X		-23
SB30-S-18'-220909	G	SS	18'	09/09/22	0925	1	X		-24
SB30-S-20'-220909	G	SS	20'	09/09/22	0926	1	X		-25
SB30-S-22'-220909	G	SS	22'	09/09/22	0927	1	X		-26
SB30-S-24'-220909	G	SS	24'	09/09/22	0928	1	X		-27
SB30-S-26'-220909	G	SS	26'	09/09/22	0929	1	X		-28
SB30-S-28'-220909	G	SS	28'	09/09/22	0930	1	X		-29
SB30-S-30'-220909	G	SS	30'	09/09/22	0932	1	X		-30

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature) Sarah Nolen	Date: 09/09/22	Time: 1700	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 9/10/22 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L153450

Tracking Numbers	Temperature
5671 5376 7411	5.4
5829 6697 3886	2.2
5829 6697 3458	5.0
5829 6697 3447	2.3

Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
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Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 175138

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 175138
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Submitted report accepted as information only. Proceed with additional delineation and work plan development. Submit a work plan via the OCD permitting portal by 6/30/2023.	3/20/2023