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

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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

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: <u>Mosaic Potash</u>)

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.

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Form C-141Page 2Page 2Oil Conservation DivisionIncident IDNAB1713157779District RP2RP-4201Facility ID30-015-26536Application IDpAB1713157706

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Release volume is greater than 25 bbls.
Xes No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Ind 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

 \boxtimes 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 <u>not</u> 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 Nar	ne: <u>Armando Martinez</u>	Title: <u>Project Manager</u>
Signature:_	ando mad	Date:4/4/2022
email: <u>a</u>	marti@chevron.com	Telephone: <u>575.586.7639</u>

Oil Conservation Division

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

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OCD Only

Received by: Jocelyn Harimon

Date: 04/18/2022

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?	<u>30</u> (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.

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Characterization Report Checklist: Each of the following items must be included in the report.
Characterization Report Checking. Duen of the fotoming terms must be metaterized 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 – See site maps for boring locations.
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 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.

regulations all operators a public health or the enviro failed to adequately inves	re required to report and/or find onment. The acceptance of a distinguishing the transmission of a distinguishing the transmission of transmission of the transmission of transmission	le certain release notifications an C-141 report by the OCD does n nation that pose a threat to ground	knowledge and understand that pursuant to OCD rules and d perform corrective actions for releases which may endanger of relieve the operator of liability should their operations have dwater, surface water, human health or the environment. In ity for compliance with any other federal, state, or local laws
Printed Name:	Armando Martinez	Title:	Project Manager
Signature: email: <u>amarti@che</u>	ando Mad		Date:4/4/22 575.586.7639
OCD Only Received by:		D	ate:



Chevron Environmental Management Company

2021 Soil & Groundwater Assessment

Candelario 24-1 Battery East Loving, New Mexico NMOCD Case No. 2RP-4201

March 2022

2021 Soil & Groundwater Assessment

Candelario 24-1 Battery East Loving, New Mexico NMOCD Case No. 2RP-4201

March 2022

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

Our Ref:

30094129

Prepared For:

Armando Martinez Portfolio Operations – Central Chevron Environmental Management Company P.O. Box 469 Questa, NM 87564

Sarah Johnson Task Manager II

Scott Foord, PG Certified Project Manager

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- Appendix B Soil Boring Logs & Monitoring Well Construction Logs
- Appendix C Cumulative Soil Analytical Results
- Appendix D Soil Laboratory Reports
- Appendix E Groundwater Laboratory Reports

Candelario 24-1 Battery 2021 Assessment Report

1 Introduction

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

2 Project Summary

The Site is approximately two miles east of Loving, New Mexico. The Site is in 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).

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. A Site background summary detailing the 2017 produced water release and historical soil investigations is included in **Appendix A**. 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. The soil samples were collected in four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via courier to Eurofins TestAmerica Laboratory in Houston Texas. Upon receival by the laboratory, the soil samples were analyzed for chloride by the United State Environmental Protection Agency (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.

3 2021 Soil Assessment

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. 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 boring and temporary monitoring well locations are presented in **Figure 2**.

4 2021 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. The specific analytical constituents for this Site include chloride only

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Candelario 24-1 Battery 2021 Assessment Report

for 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 2**.

4.1 Chloride

Chloride exceeded the NMAC closure screening level of 600 milligrams per kilogram (mg/Kg) in 18 of the 69 samples collected, with concentrations ranging from 680 mg/Kg at SB-23 (14'-15' bgs) to 11,000 mg/Kg at SB-14 (0-0.5' bgs).

5 2021 Groundwater Assessment

On August 17 and 18, 2021, two temporary monitoring wells (TMW-1 and TMW-2) were installed to approximately 40 feet bgs. The temporary monitoring wells were constructed with two-inch diameter schedule 80 PVC casing and slotted screen. The top of the screen was installed 2 feet above the groundwater table and extend into the groundwater bearing unit. A sandpack was installed from the bottom of the well to 2 feet above the screened interval. The wells were purged, developed, gauged, sampled, and plugged within 24 hours of installation. The wells were properly plugged with bentonite/cement grout. The groundwater samples were collected in bottles provided by Pace in Mt. Juliet, Tennessee. Upon receival by the laboratory, the groundwater samples were analyzed for chloride by USEPA Method 300 and total dissolved solids (TDS) by USEPA Method 2540C. The temporary monitoring well locations are presented in **Figure 2**.

6 2021 Groundwater Analytical Results

The groundwater analytical results were compared to the applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. A summary of the groundwater sample analytical results is presented in **Table 2**. Copies of the certified analytical reports and chain-of-custody documentation from Pace are presented in **Appendix E**. The groundwater analytical map is presented in **Figure 3**.

6.1 Chloride

Chloride exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in both groundwater samples collected, with concentrations of 1,540 mg/L at TMW-2 and 1,570 mg/L at TMW-1.

6.2 Total Dissolved Solids

TDS exceeded the NMWQCC standard of 1,000 mg/L in both groundwater samples collected, with concentrations of 5,500 mg/L at TMW-1 and 6,060 mg/L at TMW-2.

7 Summary

Analytical results associated with recent assessment activities conducted in 2021 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 with be included in a Work Plan that will be submitted to the NMOCD for review and approval.

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Tables

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Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride
			(mg/kg)
	NMAC Standards		600
			mg/Kg
	0-0.5'	08/18/21	974
	4'-5'	08/18/21	69.3
SB-13	9'-10'	08/18/21	90.6
	14'-15'	08/18/21	385
	19'-20'	08/18/21	138
	0-0.5'	08/18/21	11,000 V
	4'-5'	08/18/21	7,350
	9'-10'	08/18/21	1,160
SB-14	14'-15'	08/18/21	283
	19'-20'	08/18/21	219
	0-0.5'	08/18/21	554
	4'-5'	08/18/21	287
op :-	9'-10'	08/18/21	97.8
SB-15	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	65.4
	0-0.5'	08/18/21	172
	4'-5'	08/18/21	175
SB-16	9'-10'	08/18/21	21.4
30-10	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	31.0
	0-0.5'	08/18/21	172
	4'-5'	08/18/21	75.1
SB-17	9'-10'	08/18/21	193
00-11	14'-15'	08/18/21	63.2
	19'-20'	08/18/21	138
	0-0.5'	08/19/21	83.1
	4'-5'	08/19/21	118
6D 40	9'-10'	08/19/21	37.1
SB-18	14'-15'	08/19/21	104
	19'-20'	08/19/21	89.1
	0-0.5'	08/19/21	329
	4'-5'	08/19/21	253
SB-19	9'-10'	08/19/21	78.9
	14'-15'	08/19/21	130
	19'-20'	08/19/21	293
	0-0.5'	08/19/21	1,340
	4'-5'	08/19/21	724
60.00	9'-10'	08/19/21	580
SB-20	14'-15'	08/19/21	288
	19'-20'	08/19/21	555



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Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride
			(mg/kg)
	NMAC Standards		600
			mg/Kg
	0-0.5'	08/19/21	795
	4'-5'	08/19/21	4,050
SB-21	9'-10'	08/19/21	1,250
00-21	14'-15'	08/19/21	3,530 J3 V
	19'-20'	08/19/21	1,420
	0-0.5'	08/19/21	<9.89
	4'-5'	08/19/21	73.5
	9'-10'	08/19/21	1,190
SB-22	14'-15'	08/19/21	333
	19'-20'	08/19/21	137
	4'-5'	08/19/21	1,540
	9'-10'	08/19/21	404
SB-23	14'-15'	08/19/21	680
	19'-20'	08/19/21	491
	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
TMW-1	19'-20'	08/17/21	81.8
	24'-25'	08/17/21	231
	29'-30'	08/17/21	97.0
	0-0.5'	08/18/21	<11.6
	4'-5'	08/18/21	82.6
	9'-10'	08/18/21	38.3
TMW-2	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

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.

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

Notes:

1. Chloride analyzed by United States Environmental Protection Agency Method 300.0

2. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)





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Table 2 2021 Groundwater Analytical Results Crievron Environmental Management Company Candelario 24-1 Battery East Loving, Eddy County, New Mexico

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Sample Name	Sample Date	Chloride (mg/L)	TDS (mg/L)
NMWQCC Standards ^(a)		250	1000
TMW-1	8/20/2021	1,570 [1,570]	5,500 [4,770]
TMW-2	8/20/2021	1,540	6,060

Legend: Values in brackets indicate duplicate sample results. mg/L. Miligram(s) per Liter TDS = total dissolved solds TWW - Temporary Monitoring Well MWMCCC : The Netwook Water Quality Control Commission USEPA = United States Environmental Protection Agency **Bold** = values exceeding NMWOCC standards

Notes: 1. Chloride analyzed by USEPA Method 300.0

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fable 2_GW Analytical Table_V0

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Figures

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T0100192 178 120211/01 102VA2 0XM.9AM NOTACOL 3TIS - 139U013/120210XM/93TTA8 1-142 019AL3040A2_N09V2HO/V02_/11



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DOCUMENT PATH: T:/_ENV/CHEVRON_CANDELARIO 241-1 BATTER/IXDI/2021/FIGURE3 - SOIL ANALYTICAL MAP.MXD



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DOCUMENT PATH: T1_ENV/CHEVRON_CANDELARIO 241-1 BATTERY/MXD/2021/FIGURE2 - GROUNDWATER ANALYTICAL MAP.WXD



Site Background Summary

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.



Soil Boring Logs & Monitoring Well Construction Logs

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Date Start// Drilling Co Driller's Na Drilling Me Sampling N Rig Type:	mpan me: thod: /letho	y: ⊢ Ken Airl	18/202 ICI Cooper Rotary discrete		Northing: Easting: Casing Elevation:Well/Boring ID: SB-13Borehole Depth:20' Surface Elevation:Descriptions By:JS							
ДЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction				
2 07	1	0- 0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, caliche, hard, loose, throughout. sand 2.5YR light reddish brown, fine, well sorted, loose, subround					
-5 -	2	4-5'	1'		SP							
.0 -10 -	3	9-10'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, sand, sorted, well cemented, calcareous, hard, with clasts; pebbles to c sorted, very hard, well cemented, chert, siliceous, subrounded, dr	cobbles, poorly				
.5 -15 -	4	14- 15'	1'				sandy caliche 10YR 8/4 very pale brown caliche, with abundant s moderately to well sorted, well cemented, dry.	and, fine, silyu,				
- - - 10 - 20	5						End of boring at 20' bgs					



Date Start Drilling Co Driller's N Drilling Mo Sampling Rig Type:	ompan ame: ethod: Metho	y: ⊢ Ken Air∣ od: o	18/202 ICI Cooper Rotary discrete				Northing: Easting: Casing Elevati Borehole Depti Surface Elevati Descriptions B	h: 20' tion:	Client: Ch	I D: SB-14 evron Candelario 24-1
DЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DID	USCS Code	Geologic Column	Strati	igraphic Description		Well/Boring Construction
	1	0- 0.5'	0.5'			·/· ·/·	clayey sand 5YR 4/3 reddish t some clay sorted throughout, i pebbles.	brown fine sand, well sorted, subro nonplastic, moist, little roots, trace	ounded, loose, with to little caliche	
- -5 -5 -	2	4-5'	1'		sc					
-	3	9-10'	1'				caliche conglomerate 5YR 8/2 cemented, hard, with clasts, p abundant, poorly sorted throug	2 pinkish white caliche matrix, sand bebbles to cobbles, rounded, very h ghout.	d, fine, silty, well aard, well cemented,	
-10 -10 -	4		1'							
- 15 <i>-15 -</i> -		14- 15'					sandy caliche 10YR 8/4 very p well cemented, very hard, with calcareous.	pale brown caliche, with fine sand, h little to some granules to pebbles	well sorted, silty, s, siliceous and	
- - - -	5	19- 20'	1'				End of boring at 20' bgs			
<u> </u>		CA	DI	S	Design & for natura built asse	Consultan al and its	2. Belov 3. North conform America	w Ground Surface (bgs) w Top of Casing (btoc) hing and Easting State Plar n to the 'New Mexico Coord an Datum of 1983. ations shown reference the	inate System", N	nown are Transverse Mercator and ew Mexico Central Zone, North Vertical Datum of 1983

Project: 30094129 Template: LF Data File: SB-14 Released to Imaging: 3/21/2023 9:11:22 AM

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Received by OCD: 4/18/2022 7:09:02 AM

Date Start Drilling Co Driller's N Drilling Mo Sampling Rig Type:	ompan ame: ethod: Metho	ny: ⊢ Ken Air∣ od: o	18/202 ICI Cooper Rotary discrete				Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Well/Boring ID: SB-15 Client: Chevron Location: Candelario 24-1
рертн	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
- v -	1	0- 0.5'	0.5		SC SP		clayey sand (topsoil) 5YR 4/3 reddish brown fine sand, well sorted, so loose, with some clay well sorted throughout, non-plastic, pliable, so sand 5YR 5/6 yellowish red, very fine, well sorted, subrounded, loose	ft, little roots.
- -5 -5 - - -	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white conglomerate with calic sandy, well cemented, poorly sorted, with pebble to cobble clasts, si hard, chert, siliceous, dry. With lenses of sandy caliche, trace clasts	ubrounded, very
- 10 <i>-10</i> - -		9-10'						
- - 15 - <i>15</i> -	4	14- 15'	1'				sandy caliche 5YR 8/2 pinkish white caliche with fine sand, well sort silty, hard, well cemented, dry.	ed throughout,
- - 20 20 -	5	19- 20'	1'				End of boring at 20' bgs	
9 A		CA	DI	S	D <mark>esign & C</mark> or natura uult asse	<mark>Consultar</mark> I and ts	Remarks: 1. Below Ground Surface (bgs) 2. Below Top of Casing (btoc) 3. Northing and Easting State Plane C conform to the 'New Mexico Coordina: American Datum of 1983. 4. Elevations shown reference the No	Coordinates shown are Transverse Mercator and te System", New Mexico Central Zone, North rth American Vertical Datum of 1983

Project: 30094129 Template: LF Data File: SB-15 Released to Imaging: 3/21/2023 9:11:22 AM

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Drilling Ca Driller's N Drilling M Sampling Rig Type:	ame: ethod: Metho	y: ⊢ Ken Airf d: c	18/202 ICI Cooper Rotary Jiscrete	,			Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Well/Boring ID: SB-16 Client: Chevron Location: Candelario 24-1
DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	DID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
-	1	0- 0.5'	0.5'		SC SP		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subround loose with some clay sorted throughout, nonplastic, moist, little root granules; caliche. sand 2.5YR light reddish brown, fine, well sorted, loose, subrounde	is, trace to little
-5 - -5 -	2	4-5'	1'				asliche een demosche EVD 9/2 sichlich white collebe matrix	
- - - 0 -10 -	3	9-10'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, some s sorted, well cementedm calcareous cement, hard, with some clasts pebbles, subrounded, moderately to poorly sorted, chert, siliceous,	s, granules to
-	4		1'					
- 5 -15 - -	5	14- 15'	1'				sandy caliche 10YR 8/4 very pale brown caliche with abundant sand sorted, well cemented, calcareous cement, very hard, dry. @18' color change to 7.5YR 7/4 pink	d, fine, well
- :0-20-		19- 20'					End of boring at 20' bgs	
9/		CA	DI	S	Design & l for natura built asse	<mark>Consultar</mark> Il and ts	conform to the 'New Mexico Coordina American Datum of 1983.	Coordinates shown are Transverse Mercator and ate System", New Mexico Central Zone, North orth American Vertical Datum of 1983

Data File: SB-16 Released to Imaging: 3/21/2023 9:11:22 AM

Received by OCD: 4/18/2022 7:09:02 AM

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Drilling C Driller's N Drilling M Sampling Rig Type:	lame: ethod: Metho	Ken Air od:	ICI Cooper Rotary discrete				Cas Bor Sur				Well/Boring ID: SB-17 Client: Chevron Location: Candelario 24-1		
DЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DIA	USCS Code	Geologic Column		Stratigraphic Description			Well/Boring Construction		
	1	0- 0.5'	0.5'		SW SP		to firm, with little clayey sand 5YF	ad) 7.5YR 7/3 pink silt to fine sand, poorly to some granules to pebbles scattered th 4/3 reddish brown fine sand, well sorted, nonplastic, dry, trace roots.	nroughout.				
 -5 -5-	2	4-5'	1'				sandy caliche 10 abundant sand,	reddish brown, fine, well sorted, subroun YR 8/4 very pale brown caliche, well cem very fine to fine, well sorted throughout, in granules to pebbles, poorly sorted, subrou	nented, hard v	with some to matrix, little to	-		
10 -10 -	3	9-10'	1'										
 - 15 - 15 -	4	14- 15'	ar.										
	5	19- 20'	1'				End of bori	ng at 20' bgs					
<u>(</u>		CA	DI	S	lesign & C or natural wilt asset	Consulta Land ts	Remarks	 1. Below Ground Surface (bg: 2. Below Top of Casing (btoc) 3. Northing and Easting State) Plane Co Coordinate	System", Ne	own are Transverse Mercator and ew Mexico Central Zone, North /ertical Datum of 1983		

Date Start Drilling Co Driller's Na Drilling Ma Sampling Rig Type:	ompan ame: ethod: Metho	y: ⊦ Ken Air∣ d: o	19/202 ICI Cooper Rotary discrete				Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Well/Boring ID: SB-18 Client: Chevron Location: Candelario 24-1
ДЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DIA	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
	1	0- 0.5'	0.5'		sw		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, sul loose, with granules to pebbles scattered throughout, caliche, subrou sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose	unded, hard, dry.
-5-	2 3	4-5'	1' 1'		SP	•	caliche conglomerate 5YR 8/2 pinkish white caliche, very hard, well some sand, fine, throughout, with some to abundant clasts, pebble to poorly sorted, matrix supported, subrounded, very hard, siliceous/che	o cobbles,
- .0 -10 - - - - -	4	9-10'	1'		SP		sand as above from 1-5', dry, loose.	
.5 -15 -	5	14- 15'	1'		SP		sandy caliche 10YR 8/4 very pale brown caliche, with some to abunc sorted throughout, fine, well cemented, very hard, dry. sand as above from 9-16'	lant sand, well
20 20		19- 20'					sandy caliche as above from 16-18'. dry, well cemented. End of boring at 20' bgs	
٩A		CA	DI	S	Design & for natura	<mark>Consultar</mark> al and its	Remarks: 1. Below Ground Surface (bgs) 2. Below Top of Casing (btoc) 3. Northing and Easting State Plane C conform to the 'New Mexico Coordinat American Datum of 1983. 4. Elevations shown reference the Nor	oordinates shown are Transverse Mercator and e System", New Mexico Central Zone, North

Received by OCD: 4/18/2022 7:09:02 AM

Date Start Drilling C Driller's N Drilling M Sampling Rig Type:	ompan lame: lethod: Metho	iy: H Ken Airb	19/202 ICI Cooper Rotary discrete				Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Well/Boring ID: SB-19 Client: Chevron Location: Candelario 24-1
ДЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
	1	0- 0.5'	0.5'		sw sc		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, su loose, with some granules to pebbles poorly sorted throughout, calic clayey sand 5YR 4/2 reddish brown fine sand, well sorted, subround clay well sorted throughout, nonplastic, dry.	he, hard, dry.
-5-	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, very har cemented, with some sand, fine, throughout, with alternating layers abundant clasts, pebble to cobbles, rounded, poorly sorted, chery, s hard, well cemented in calcareous matrix.	of some to
- - 0 -10 -	3	9-10'	1'					
-	4	14-	1'				sandy caliche 10YR 8/4 very pale brown caliche, with some to abune sorted throughout, fine, silty, well cemented, very hard.	lant sand, well
15 - <i>15</i> - - -	- 5	15	1'					
- 20 20		19- 20'					End of boring at 20' bgs	



Data File: SB-19 Released to Imaging: 3/21/2023 9:11:22 AM

Date Start Drilling Cc Driller's Na Drilling Me Sampling Rig Type:	ompan ame: ethod: Metho	y: ⊢ Ken Airf d: c	19/202 ICI Cooper Rotary liscrete				Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Casing Elevation: Client: Chevron Borehole Depth: 20' Surface Elevation: Location: Candelario 24			
DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	DIA	USCS Code	Geologic Column	Stratigraphic Description			Well/Boring Construction	
-v v-	1	0- 0.5'	0.5'		sw sc		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poo loose, with some granules to pebbles poorly sorted thro clayey sand 5YR 4/3 reddish brown fine sand, well sort some clay dispersed throughout, nonplastic, dry.	ughout, calic	che, hard, dry.		
5 -5 -	2	4-5'	1'		SP		sand 2.5YR light reddish brown, fine, well sorted, subro	unded, loose	ə, dry.		
-	3		1'				caliche conglomerate 5YR 8/2 pinkish white caliche, ve sandy, with some to abundant pebble to cobbles, subro throughout, subrounded, chert/siliceous, very hard, dry.	unded, poorl	y sorted		
10 <i>-10 -</i> -		9-10'					sand to silt throughout, well sorted, dry. with thin beds of sand, as from 3-6' throughout.	u, very naru,	with some line		
- - 15 <i>-15</i> -	4	14- 15'	1'								
-	5		1'								
- 20 <i>20</i>		19- 20'					End of boring at 20' bgs				
9 A		CA	DI	S	l <mark>esign & l</mark> or natura uilt asse	Consultar I and ts	Remarks: 1. Below Ground Surface (b 2. Below Top of Casing (bt 3. Northing and Easting Sta conform to the 'New Mexico American Datum of 1983. 4. Elevations shown referen	ic) te Plane C Coordina	te System", Ne	own are Transverse Mercator and w Mexico Central Zone, North /ertical Datum of 1983	

Project: 30094129 Template: LF Data File: SB-20 Released to Imaging: 3/21/2023 9:11:22 AM

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2 4.5 2 3		LID USCS Code	Geologic Column	Stratigraphic Description Well/Boring gravelly sand (pad) 7.5YR 7/3 pink very fine to fine sand, silty, moderately sorted, subrounded, loose, dry, with little to some granules to cobbles scattered throughout, poorly sorted, caliche, hard. sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose, dry.
0.5 [°] 2 4-5 [°]	1'			subrounded, loose, dry, with little to some granules to cobbles scattered throughout, poorly sorted, caliche, hard.
3	1'			
9-10				caliche 10YR 8/2 very pale brown sand, silt to fine sand, well sorted, well cemented with calcareous matrix, hard, little to some granules to pebbles, chert, rounded, poorly sorted throughout, with trace to little lenses sand, as above.
4	1'		-	sand, as from 0.5 to 6', with interbeds clay, trace to little, soft, pliable, slightly plastic,
		SP		dry.
5	1'			caliche as from 6-14'.
19- 20'				End of boring at 20' bgs
		S Design & for natur built asso	Consultar al and ets	Remarks: 1. Below Ground Surface (bgs) 2. Below Top of Casing (btoc) 3. Northing and Easting State Plane Coordinates shown are Transverse Mercatic conform to the 'New Mexico Coordinate System'', New Mexico Central Zone, No American Datum of 1983. 4. Elevations shown reference the North American Vertical Datum of 1983
5	19- 20 ⁻	14- 15' 1' 19- 20'	14- 15' SP 15' 1' SP 19- 20' I 19- 20' I 19- 20' I	14- 5P 15' 5P 1' 5P 19- 5P 20' 5P 20' 5P 100 5P 11' 5P 10- 5P

.

Date Start/Finish: 8/19/2021 Drilling Company: HCl Driller's Name: Ken Cooper Drilling Method: Air Rotary Sampling Method: discrete/grab Rig Type: Air Rotary							Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Elevation: Client: Cheven e Depth: 20' Location: C Elevation:				
ДЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DIA	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction				
	1	0- 0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink very fine to fine sand, silty, mode subrounded, loose, dry, with some granules to pebbles, caliche, har sand 2.5YR light reddish brown, fine, well sorted, subrounded to rou	d, subrounded.				
5 -5 - 	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche, sandy, well sor well cemented, with little to some clasts, pebbles to cobbles, matrix poorly sorted, chert/siliceous, dry.					
10 - 10 - 	4	9-10'	1'				caliche 10YR 8/2 very pale brown caliche, well cemented, very hard, well sorted, silty in beds, dry.	with fine sand,				
- 15 <i>-15 -</i> 	5	14- 15'	1'									
		19- 20'					End of boring at 20' bgs Remarks: 1. Below Ground Surface (bgs) 2. Below Top of Casing (btoc)					
Project: 30 Data File: \$	0094129		DI			Consultan Land ts	3. Northing and Easting State Plane C conform to the 'New Mexico Coordina American Datum of 1983. 4. Elevations shown reference the Nor PTEMPLATE3.ldfx Date: 9/15/2021 Created/Edited by:	te System", Ne	ew Mexico Central Zone, North			

Data File: SB-22 Released to Imaging: 3/21/2023 9:11:22 AM

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Date Start/Finish: 8/19/2021 Drilling Company: HCl Driller's Name: Ken Cooper Drilling Method: Air Rotary Sampling Method: discrete/grab Rig Type: Air Rotary							Northing: Easting: Casing Elevation: Borehole Depth: 20' Surface Elevation: Descriptions By: JS	Client: Che	oring ID: SB-23 : Chevron on: Candelario 24-1					
DЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DID	USCS Code	apo SC SC SC SC SC SC SC SC SC SC SC SC SC								
-	1	0- 0.5'	0.5'		sw		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, moderately s loose, dry, with granules to pebbles, poorly sorted throughout, litt calcareous. sand 2.5YR light reddish brown, fine, well sorted, subrounded to	e to some, hard,						
-5 -	2	4-5'	1'		SP		caliche conglomerate 5YR 8/2 pinkish white caliche, with some sorted, subrounded, well cemented, very hard, with some to abur pebbles to cobbles, poorly sorted throughout, hard, chert, dry.							
-	3		1'				sandy caliche 10YR 8/2 very pale brown caliche, with some to at well sorted, subrounded, well cemented in calcareous caliche m							
0 -10 -	4	9-10'	1'				beds of moderately comented, firm, and well cemented very hard little cherty pebbles in beds throughout.							
5 -15 -		14- 15'												
-	5		1'											
:0 <u>20</u>		19- 20'					End of boring at 20' bgs							
A A		CA	DI	S	<mark>Design &</mark> for natura built asse	<mark>Consultar</mark> I and ts	Remarks: 1. Below Ground Surface (bgs) 2. Below Top of Casing (btoc) 3. Northing and Easting State Plan conform to the 'New Mexico Coordi American Datum of 1983. 4. Elevations shown reference the l	nate System", Ne	ew Mexico Central Zone, North					

Data File: SB-23 Released to Imaging: 3/21/2023 9:11:22 AM

PAGE 1 OF 2

WELL TAG ID NO.



WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

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NO	ose pod no POD 1	. (WELL NO	.)	WELL 1	ose file no(s). C-4564								
GENERAL AND WELL LOCATION	WELL OWNI Arcadis	ER NAME(S)		I	PHONE (OPTIONAL)								
	WELL OWNI 1004 N Big	ER MAILING g Spring S	ADDRESS Street, Suite 121		CITY Midland	TX 79701	ZIP						
	WELL		DE 32.	GREES MINUTES SECONDS 292690									
ERAL	LOCATIO (FROM GP	S)	TITUDE -104 NGITUDE	4.047266		<u>N</u> W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84						
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE												
LICENSE NO. WD-1731 NAME OF LICENSED DRILLER Ken Cooper								NAME OF WELL DRILLING COMPANY Harrison & Cooper, Inc. (DBA HCI Drilling)					
	DRILLING STARTED 08/17/2021 DRILLING ENDED 08/17/2021			DEPTH OF COMPLETED WELL (FT) BORE HO			LE DEPTH (FT) 40	H (FT) DEPTH WATER FIRST ENCOUNTERED (FT)					
7	COMPLETE	O WELL IS:	ARTESIAN	T DRY HOLE T SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)					
OIL	DRILLING F	LUID:	AIR	MUD	ADDITIVES – SPECIFY:								
CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMMER	HAMMER CABLE TOOL OTHER - SPECIFY:								
INFC	DEPTH (feet bgl)		BORE HOLE	CASING MATERIAL AND/OR		CA	ASING	CASING	CASING WALL	SLOT			
ING	FROM TO		DIAM	GRADE (include each casing string, and		CON	VECTION YPE	INSIDE DIAM.	THICKNESS (inches)	SIZE (inches)			
CAS	0	30	(inches) 6	note sections PVC	,		ling diameter) FJ	(inches)	Sch 40				
G&	30	40	6		PVC		FJ	2	Sch 40	.010			
DRILLING &										1			
DRIL										1			
2. I													
	DEPTH	(feet bgl)	BORE HOLE	LIST ANN	IULAR SEAL MA	TERIAL A	AND	AMOUNT	METHO	D OF			
IAL	FROM	ТО	DIAM. (inches)	GRAVEL PA	CK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACEN				
rer	0	28	6		Open								
MA'	28	40	6		Sand			3 Bags	Pour	ed			
AR													
ANNULAR MATERIAL										.,,,,			
3. AN													
Ċ,		n fi na mar a na manana na mbo ang											
EOP		NAL LICE	<u> </u>	1			WD 1			0/10)			
FILE	OSE INTER NO.	INAL USE			POD NO.	******	TRN		& LOG (Version 04/3	(19)			

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LOCATION

	DEPTH (feet bgl) THICKNESS FROM TO (feet)			COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)					ER NG? NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)			
	0	1	1		Topsoil			Y	N	Lor(Do (Bhil)			
	1	4	3		Sand			Y	N				
	4	14	10		Caliche	*******		Y	N				
	14	17	3		Sand	••••••••••••••••••••••••••••••••••••••		Y	N				
	17	25	8		Caliche			Y	N				
	25	36	9		Sand			Y	N				
4. HYDROGEOLOGIC LOG OF WELL	36	40	4	Clay					N				
JF W					;			Y Y	N				
0 0					· · · · · · · · · · · · · · · · · · ·			Y	N				
стс								Y					
0610								Y Y	N				
OLO						······································		Y Y	N				
OGI								Y	N				
YDR								Y	N N				
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	METHOD U	SEDTOES		OF WATER-BEARIN			TTOT	AL ESTIMA					
					WI					0.00			
	PUM	<u>, П</u> ч	IR LIFT	BAILER	THER – SPECIFY:								
ION	WELL TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.												
SIVS	MISCELLA	NEOUS INF	ORMATION:				4						
TEST; RIG SUPERVISIO													
IG SI													
ľ; RI													
TES	PRINT NAM	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:											
S.													
	BV SIGNIN	G BELOW	I CEPTIEV TU	AT TO THE BEST O	E MY KNOWLEDC	E AND BELIEF, THE FO	DECOU			ND CORRECT			
RE	RECORD OF	F THE ABO	VE DESCRIBED	WELL. I ALSO CERT	TIFY THAT THE WE	LL TAG, IF REQUIRED, H	IAS BEE	N INSTALI	LED AN	ID THAT THIS			
6. SIGNATURE		DRD WILL	ALSO BE FILED			DAYS AFTER THE COM	PLETIO	N OF WELL	. DRILL	ING.			
IGN	() ()	71			Ken Cooper			09/13/2	2021				
6. S	KM	$\prec \downarrow$		~ (ooPEC									
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME			E	DATE				
FOF	OSE INTERN	AL USE				WR-20 W	ELL RE	CORD & LO	DG (Ver	sion 04/30/2019)			
	e no.				POD NO.	TRN NO.							
LOC	CATION					WELL TAG ID NO).			PAGE 2 OF 2			

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WELL RECORD & LOG office of the state engineer

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NO	ose pod no. POD 2	(WELL NO	.)	WELL	OSE FILE NO(S). C-4564							
GENERAL AND WELL LOCATION	WELL OWNE Arcadis	R NAME(S)					PHONE (OPTIONAL)					
	well owne 1004 N Big	r mailing Spring S	ADDRESS treet, Suite 121				CITY Midland		TX 79701	ZIP		
	WELL LOCATION (FROM GPS	5)	32. TITUDE -10	GREES MI 292332 4.047121	NUTES SECO	NDS N W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84					
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE											
	LICENSE NO. WD-1	731	NAME OF LICENSED	DRILLER Ken Cooper				NAME OF WELL DRILLING COMPANY Harrison & Cooper, Inc. (DBA HCI Drilling)				
	DRILLING STARTED 08/18/2021		DRILLING ENDED 08/18/2021	DEPTH OF COMPLET 4(ED WELL (FT))	BORE HO	LE DEPTH (FT) 40	DEPTH WATER FIRST ENCOUNTERED (FT)				
Z	COMPLETED	WELL IS:	ARTESIAN	DRY HOLE				STATIC WATER LEVEL IN COMPLETED WELL (FT)				
VIIO	DRILLING FL	UID:	AIR	MUD	ADDITIVES – SPE	CIFY:						
JRM	DRILLING MI	ETHOD:	ROTARY	HAMMER	CABLE TOOL	C OTHE	R - SPECIFY:					
INFO	DEPTH (feet bgl)		BORE HOLE	CASING MATERIA		CA	ASING	CASING	CASING WALL	SLOT		
CASING INFORMATION	FROM TO		DIAM (inches)	(include each ca note section	(include each casing string, and note sections of screen) (add coupl		NECTION YPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)		
ઝ	0 30		6		PVC PVC		FJ	2	Sch 40	010		
DRILLING	30	40	6	rvc			FJ	2	Sch 40	.010		
RIL												
2. D												
								· · · · · · · · · · · · · · · · · · ·				
		- Taffafa an Ministra an Anna Anna					n yara mang meningkan piniki mang					
	DEPTH (feet bgl)	BORE HOLE	LIST AN	LIST ANNULAR SEAL MATERIAL AND			AMOUNT METHOD OF				
IAL	FROM	ТО	DIAM. (inches)		GRAVEL PACK SIZE-RANGE BY INTER			(cubic feet)	PLACEM			
TER	0	28	6		Open							
ANNULAR MATERIAL	28	40	6		Sand			3 Bags	Poure	:d		
JLAF												
INN							******					
3. A												
	l			l								
FOR FILE	OSE INTERN	NAL USE			POD NO.		WR-20		& LOG (Version 04/3)/19)		
J	ATION						WELL TAG II		PAGE	1 OF 2		

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	DEPTH (f	reet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	s	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)						
	0	1	1	Topsoil		Y N	Lor(Lo (gpm)						
	1	4	3	Sand		Y N							
	4	14	10	Caliche		Y N							
	14	17	3	Sand		Y N							
	17	25	8	Caliche		Y N							
	25	36	9	Sand									
4. HYDROGEOLOGIC LOG OF WELL	36	40	4	Clay									
FW		+0		Ciay									
0.0						Y N							
01						Y N							
OGIC						Y N							
OLC						Y N							
OGE						Y N							
DR						Y N							
E						Y N							
ч						Y N							
						Y N							
						Y N							
						Y N							
						Y N							
						Y N							
			l			Y N							
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:		LESTIMATED YIELD (gpm):	0.00						
	PUMI	° □A	IR LIFT		(gpin).	0.00							
N	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.												
VISI	MISCELLA	NEOUS INI	FORMATION:										
TEST; RIG SUPERVISIO													
INS													
RIG													
EST;					OTDUO	NON OTHER TI							
5. TI	PRINT NAM	IE(5) OF D	KILL KIG SUPEK	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	SIRUCI	TION OTHER TH	IAN LICENSEE:						
	BY SIGNIN	G BELOW	, I CERTIFY TH	AT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOR	EGOIN	G IS A TRUE A	ND CORRECT						
URE				WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HA WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPI									
6. SIGNATURE	$ \land \land$	$\neg \land$		Ken Cooper		09/13/2021							
sig (/ {)]	ta KEN (.	-		07/15/2021							
6				CONTRACTOR NAME	4	DATE							
	OSE INTERI	NAL USE		T	LL RECO	ORD & LOG (Ve	rsion 04/30/2019)						
	E NO.			POD NO. TRN NO.									
$\pm LOC$	CATION			WELL TAG ID NO			PAGE 2 OF 2						

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PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State En	gineer Well Number: C-4564 POD 1			·····	
Well ow	/ner: Arcadis		Phone	No.:	
Mailing	address: 1004 Big Spring Street, Suite 12				
City:	lidland	State:	TX	Zip code:	79701
<u>II. WE</u>	LL PLUGGING INFORMATION:				
1)	Name of well drilling company that plugg	ged well: _	Harrison & Cooper, Inc. (DB	BA HCI Drilling)	
2)	New Mexico Well Driller License No.:				
3)	Well plugging activities were supervised Ken Cooper	by the follo	wing well driller(s)/rig su	pervisor(s):	
4)	Date well plugging began:08/20/202	1	_ Date well plugging co	oncluded: 08/20/202	1
5)	GPS Well Location: Latitude:3 Longitude:	2.292690 104.047266	_deg, min,	sec sec, WGS 8	4
6)	Depth of well confirmed at initiation of p by the following manner: weighted tape	lugging as:		nd level (bgl),	
7)	Static water level measured at initiation o	f plugging:	ft bgl		
8)	Date well plugging plan of operations wa	s approved	by the State Engineer:	7/22/2021	
9)	Were all plugging activities consistent wi differences between the approved pluggin				ease describe s as needed):

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0-3 3-40	Clean fill (dirt) Bentonite cement slurry	100	Shoveled Grouted	
-					
-					
-					
]	MULTIPLY E cubic feet x 7.4 cubic yards x 201.5	3Y AND OBTAIN 1805 = gallons 97 = gallons		
HI. SIGN		, say ti	hat I am familiar with	the rules of t this Plugging	he Office of the State Record and attachments

For each interval plugged, describe within the following columns:

II

I, Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief

For KEN Coopee 09/13/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

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PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

	e Engineer Well Number:C-4564 POD 2				
Maili	l owner: Arcadis ling address: 1004 Big Spring Street, Suite 121		Phone		
City:	.: Midland S	tate:	ТХ		79701 Zip code:
<u>II. V</u>	WELL PLUGGING INFORMATION:	Ца			الم
1)	Name of well drilling company that plugged we	ell:	rrison & Cooper, Inc. (E		
2)	New Mexico Well Driller License No.:	31		Expiration	n Date:
3)	Well plugging activities were supervised by the Ken Cooper	followi	ing well driller(s)/rig s	upervisor(s):	
4)	Date well plugging began: 08/20/2021		Date well plugging c	concluded:	/20/2021
5)	GPS Well Location: Latitude: <u>32.2923</u> Longitude: <u>-104.04</u>	<u>.32</u> d 7121_d	leg, min, leg, min,	S(ec ec, WGS 84
6)	Depth of well confirmed at initiation of pluggin by the following manner: weighted tape	.g as:	ft below gro	und level (bgl)),
7)	Static water level measured at initiation of plug	ging: _	ft bgl		
8)	Date well plugging plan of operations was appr	oved by	y the State Engineer: _	07/22/2021	
9)	Were all plugging activities consistent with an a differences between the approved plugging plan				f not, please describe ional pages as needed):
		n			

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-3 3-40	Clean fill (dirt) Bentonite cement slurry	100	Shoveled Grouted	
-					
-					
-					
II. SIGN	J Ature:	I MULTIPLY I cubic feet x 7,4 cubic yards x 201,9	l 3Y AND OBTAIN 1805 = gallons 97 = gallons	I	
Ken Coc					

For each interval plugged, describe within the following columns:

II

Ken Cooper I.

I, <u>Ken Cooper</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

FOR KEN (OOPAR 09/13/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

Received by OCD: 4/18/2022 7:09:02 AM

Date Start/Finish: 8/17/2021 Drilling Company: HCl Driller's Name: Ken Cooper Drilling Method: Air Rotary Sampling Method: discrete/grab Rig Type: Air Rotary							Northing: Easting: Casing Elevation: Borehole Depth: 40' Surface Elevation: Descriptions By: JS	Well/Boring ID: TMW-1 Client: Chevron Location: Candelario 24-1		
DЕРТН	Sample Run Number	Sample/Int/Type	Recovery (feet)	DIA	USCS Code	Geologic Column	Stratigraphic Description		Well/Boring Construction	
	1	0- 0.5'	0.5		sw	. () . () . () . () . () . ()	gravelly sand (pad fill) 5YR4/3 reddish brown very fine to fine sand, n sorted, loose, subrounded, with fine gravel, little to some, throughout clay throughout.	noderately t. trace to little		
 5 -5- 	2	4-5'	1'				caliche conglomerate (cap rock) 5YR 8/2 pinkish white caliche matri cemented, hard with little to some pebbles to cobbles, chert, siliceou rounded, poorly sorted throughout.	x, sandy, well s, very hard,		
	3	9-10'	1'		GP					
- 10 <i>-10</i> -	4		1'		SP		sand 5YR 7/4 pink fine sand, well sorted, rounded, loose, dry.			
 - 15 -15 -		14- 15'					sandy caliche 5YR 8/2 pinkish white very fine to fine sand, well sorte cemented in calcareous matrix, dry.	d, silty, well		
	5	19- 20'	1'							
sed to Im	agin		1/202	23 9:1	1:22	2 AM				



ARCADIS			2. Below Top of C 3. Northing and E conform to the 'Ne American Datum	asing (btoc) asting State Plane ew Mexico Coordina of 1983.	Coordinates shown are Tra ate System", New Mexico C orth American Vertical Datu	Central Zone, North
Project: 30094129	Template: LPT	EMPLATE3.ldf>	5			Page: 2 of 2
Data File: TMW-1		Date: 9/13/	2021	Created/Edited by:	AD	

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ARCADIS		Remarks:		ordinates shown are Transverse Mercator and System", New Mexico Central Zone, North n American Vertical Datum of 1983
Project: 30094129	Template: LPT	EMPLATE3.ldf		Page: 2 of 2
Data File: TMW-2		Date: 9/13/	Created/Edited by: AE	



Cumulative Soil Analytical Results

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride
			(mg/kg)
	NMAC Standards		600
			mg/Kg
	0-0.5'	09/29/20	9,500
	4'-5'	09/29/20	2,880
SB-1	9'-10'	09/29/20	2,950
30-1	14'-15'	09/29/20	388
	19'-20'	09/29/20	179 F1
	0-0.5'	09/29/20	14,600
	4'-5'	09/29/20	874
60.0	9'-10'	09/29/20	1,380 F1
SB-2	14'-15'	09/29/20	450
	19'-20'	09/29/20	571
	0-0.5'	09/29/20	16,500
	4'-5'	09/29/20	1,300
	9'-10'	09/29/20	155
SB-3	14'-15'	09/29/20	638
	19'-20'	09/29/20	102
		00.20.20	
	0-0.5'	09/29/20	2,050 B
	4'-5'	09/29/20	1,200 B
	9'-10'	09/29/20	320 B
SB-4	14'-15'	09/29/20	169 B
	19'-20'	09/29/20	8.69 B
	13-20	03/23/20	0.09 B
	0-0.5'	09/29/20	5,920 B
	4'-5'	09/29/20	143 B
	9'-10'	09/29/20	495 B
SB-5	14'-15'	09/29/20	87.8 B
	19'-20'		193 B
	19-20	09/29/20	193 B
	0-0.5'	00/20/20	0 500 F4 D
		09/30/20	8,580 F1 B
	4'-5' 9'-10'	09/30/20	3,270 B
SB-6	9'-10' 14'-15'	09/30/20	1,030 B
		09/30/20	316 B
	19'-20'	09/30/20	86.1 B
	0.0.5	00/00/00	540 D
	0-0.5'	09/30/20	519 B
	4'-5'	09/30/20	2,910 B
SB-7	9'-10'	09/30/20	405 B
	14'-15'	09/30/20	814 B
	19'-20'	09/30/20	105 B
		00/00/20	0.000
	0-0.5'	09/29/20	8,800
	4'-5'	09/29/20	1,110
SB-8	9'-10'	09/29/20	107
	14'-15'	09/29/20	124
	19'-20'	09/29/20	124



	Sample Depth		
Sample I.D. No.	(feet bgs)	Date	Chloride
			(mg/kg)
	NMAC Standards		600
			mg/Kg
	0-0.5'	09/29/20	7,210
	4'-5'	09/29/20	228
SB-9	9'-10'	09/29/20	125
000	14'-15'	09/29/20	618
	19'-20'	09/29/20	124 F1
	0-0.5'	09/29/20	5,160
	4'-5'	09/29/20	1,480
SB-10	9'-10'	09/29/20	1,260
30-10	14'-15'	09/29/20	445
	19'-20'	09/29/20	243
	0-0.5'	09/30/20	1,080 B
	4'-5'	09/30/20	715 B
	9'-10'	09/30/20	371 B
SB-11	14'-15'	09/30/20	126
	19'-20'	09/30/20	244
	0-0.5'	09/30/20	4,570 B
	4'-5'	09/30/20	943 B
SB-12	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
	13-20	03/30/20	1,200 B
	0-0.5'	08/18/21	974
	4'-5'	08/18/21	69.3
	9'-10'	08/18/21	90.6
SB-13	14'-15'	08/18/21	385
	19'-20'	08/18/21	138
	19-20	00/10/21	130
	0-0.5'	00/40/04	11,000 V
		08/18/21	-
	4'-5'	08/18/21	7,350
SB-14	9'-10'	08/18/21	1,160
	14'-15'	08/18/21	283
	19'-20'	08/18/21	219
		00/40/04	554
	0-0.5'	08/18/21	554
	4'-5'	08/18/21	287
SB-15	9'-10'	08/18/21	97.8
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	65.4
	0-0.5'	08/19/04	172
	0-0.5 4'-5'	08/18/21	172
		08/18/21	21.4
	01.401		
SB-16	9'-10'		
SB-16	9'-10' 14'-15' 19'-20'	08/18/21 08/18/21 08/18/21	26.5 31.0



	Sample Depth		
Sample I.D. No.	(feet bgs)	Date	Chloride
			(mg/kg)
	NMAC Standards		600
			mg/Kg
	0-0.5'	08/18/21	172
	4'-5'	08/18/21	75.1
SB-17	9'-10'	08/18/21	193
00 11	14'-15'	08/18/21	63.2
	19'-20'	08/18/21	138
	0.0.5	00/40/04	00.4
	0-0.5'	08/19/21	83.1
	4'-5'	08/19/21	118
SB-18	9'-10'	08/19/21	37.1
	14'-15'	08/19/21	104
	19'-20'	08/19/21	89.1
	0-0.5'	08/19/21	329
	4'-5'	08/19/21	253
	9'-10'	08/19/21	78.9
SB-19	14'-15'	08/19/21	130
	19'-20'	08/19/21	293
	10 10	00/10/21	200
	0-0.5'	08/19/21	1,340
	4'-5'	08/19/21	724
	9'-10'	08/19/21	580
SB-20	14'-15'	08/19/21	288
	19'-20'	08/19/21	555
	0-0.5'	08/19/21	795
	4'-5'	08/19/21	4,050
SB-21	9'-10'	08/19/21	1,250
30-21	14'-15'	08/19/21	3,530 J3 V
	19'-20'	08/19/21	1,420
	0-0.5'	08/19/21	<9.89
	4'-5'	08/19/21	73.5
SB-22	9'-10'	08/19/21	1,190
	14'-15'	08/19/21	333
	19'-20'	08/19/21	137
	0-0.5'	08/19/21	68.9
	4'-5'	08/19/21	1,540
	9'-10'	08/19/21	404
SB-23	14'-15'	08/19/21	680
	19'-20'	08/19/21	491
		55 O/L 1	
	0-0.5'	08/17/21	31.8
	4'-5'	08/17/21	1,570
	9'-10'	08/17/21	721
T1014 4	14'-15'	08/17/21	1,980
TMW-1	19'-20'	08/17/21	81.8
	24'-25'	08/17/21	231
	29'-30'	08/17/21	97.0



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Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride	
			(mg/kg)	
	600			
			mg/Kg	
	0-0.5'	08/18/21	<11.6	
	4'-5'	08/18/21	82.6	
	9'-10'	08/18/21	38.3	
TMW-2	14'-15'	08/18/21	44.4	
110100-2	19'-20'	08/18/21	559	
	24'-25'	08/18/21	202	
	29'-30'	08/18/21	1,030	

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.

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

Notes:

1. Chloride analyzed by United States Environmental Protection Agency Method 300.0

2. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Sample ID: SB-SB-13 8/18/2021									
Analyte		Result							
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'				
Chloride	974 69.3 90.6 385 138								

Sample ID:SB-14 8/18/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	11,000 V 7,350 1,160 283 219						

Sample ID: SB-15 8/18/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	554 287 97.8 26.5 65.4						

Sample ID: SB-16 8/18/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	172	172 175 21.4 26.5 31.0					

Sample ID: SB-17 8/18/2021								
Analyte		Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'			
Chloride	172	172 75.1 193 63.2 138						

Sample ID: SB-18 8/19/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	83.1 118 37.1 104 89.1						

Sample ID: SB-19 8/19/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	329	329 253 78.9 130 293					

Sample ID: SB-20 8/19/2021								
Analyte		Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'			
Chloride	1,340	1,340 724 580 288 555						

Sample ID: SB-21 8/19/2021							
Analyte		Result					
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'		
Chloride	795 4,050 1,250 3,530 J3 V 1,420						

Sample ID: SB-22 8/19/2021								
Analyte		Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'			
Chloride	<9.89	<9.89 73.5 1,190 333 137						

Sample ID: SB-23 8/19/2021								
Analyte		Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'			
Chloride	68.9	68.9 1,540 404 680 491						

•

	Sample ID: TMW-1 8/18/2021									
Analyte	alyte Result									
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'	24'-25'	29'-30'			
Chloride										

	Sample ID: TMW-2 8/18/2021									
Analyte	Analyte Result									
Depth	0-0.5'	0-0.5' 4'-5' 9'-10' 14'-15' 19'-20' 24'-25' 29'-30'								
Chloride										



Soil Laboratory Reports

Received by OCD: 4/18/2022 7:09:02 AM

Pace Analy	vtical® ANALYT	ICAL REPORT	¹ Cp
			² Tc
	ARCADIS US - New	Mexico	³ Ss
	Sample Delivery Group:	L1392626	⁴ Cr
	Samples Received:	08/19/2021	⁵ Sr
	Project Number:	30094129	
	Description:	Candelario 24-1 Battery	⁶ Qc
	Site:	CANDELARIO 24-1 SWD	7
	Report To:	Sarah Johnson	Í GI
		1004 N Big Spring Street	⁸ AI
		Suite 121	
		Midland, TX 79701	[°] Sc

Entire Report Reviewed By: Chu, forf men

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 Analytical National is performed per guidance provided in 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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PROJECT: 30094129

SDG: L1392626

DATE/TIME: 08/30/21 21:21 PAGE: 1 of 17

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Ss

Cn

Sr

[´]Qc

GI

Â

Sc

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PROJECT: 30094129

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DATE/TIME: 08/30/21 21:21

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SAMPLE SUMMARY

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Tc

Ss

Cn

Sr

[´]Qc

GI

ΆI

Sc

TMW-1-S-0-0.5-210817 L1392626-01 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 13:35	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 1	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 17:14	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-4-5-210817 L1392626-02 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 13:42	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 5	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 17:24	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-9-10-210817 L1392626-03 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 13:47	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 1	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 17:33	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-14-15-210817 L1392626-04 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 13:55	Received date/time 08/19/21 08:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 5	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 17:43	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-19-20-210817 L1392626-05 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 14:00	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 1	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 17:52	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-24-25-210817 L1392626-06 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 14:05	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1728642	1 1	08/27/21 09:12 08/25/21 11:29	08/27/21 09:29 08/25/21 18:02	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN
TMW-1-S-29-30-210817 L1392626-07 Solid			Collected by Justin Steinmann	Collected date/time 08/17/21 14:10	Received da 08/19/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1729166 WG1729538	1 1	08/27/21 09:12 08/25/21 19:40	08/27/21 09:29 08/25/21 22:18	KDW ELN	Mt. Juliet, TN Mt. Juliet, TN

PROJECT: 30094129

SDG: L1392626 DATE/TIME: 08/30/21 21:21

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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.

ue, forel S

Chris McCord Project Manager

Released to Imaging: 3/21/2023 9:11:22 AM ARCADIS US - New Mexico PROJECT: 30094129

SDG: L1392626

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SAMPLE RESULTS - 01 L1392626

Total Solids by Method 2540 G-2011

Total Solids by Method 2540 G-2011								
	Result	Qualifier	Dilution	Analysis	Batch			
Analyte	%			date / time		i		
Total Solids	82.6		1	08/27/2021 09:29	<u>WG1729166</u>			

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	31.8		11.1	24.2	1	08/25/2021 17:14	WG1728642		CII



SAMPLE RESULTS - 02 L1392626

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	86.9		1	08/27/2021 09:29	WG1729166	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1570		53.0	115	5	08/25/2021 17:24	WG1728642		СП



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SAMPLE RESULTS - 03

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.5		1	08/27/2021 09:29	<u>WG1729166</u>	тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	721		10.5	22.9	1	08/25/2021 17:33	WG1728642



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SAMPLE RESULTS - 04 L1392626

Total Solids by Method 2540 G-2011

Total Solids by Method 2540 G-2011									
	Result	Qualifier	Dilution	Analysis	Batch				
Analyte	%			date / time		2			
Total Solids	90.6		1	08/27/2021 09:29	<u>WG1729166</u>		Тс		

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1980		50.8	110	5	08/25/2021 17:43	WG1728642



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SAMPLE RESULTS - 05

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1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	91.4		1	08/27/2021 09:29	WG1729166	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	81.8		10.1	21.9	1	08/25/2021 17:52	WG1728642	



Ss

SAMPLE RESULTS - 06

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	80.1		1	08/27/2021 09:29	<u>WG1729166</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	231		11.5	25.0	1	08/25/2021 18:02	WG1728642



SDG: L1392626

SAMPLE RESULTS - 07 L1392626

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	81.8		1	08/27/2021 09:29	WG1729166	¯Тс

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	97.0		11.2	24.4	1	08/25/2021 22:18	WG1729538	CII



SDG: L1392626

Rece	ived l	by OCD: ∼	4/18/4	2022 7 5	-09	:02 ی س	4 <i>M</i>	6 C C	Ū	c	کّ	C	ວ ທ	f 181	l
														PAGE:	12 of 17
														DATE/TIME:	08/30/21 21:21
TY CONTROL SUMMARY 113922626-01.02.03.04.05.06.02														SDG:	L1392626
QUALITY CON 11332626-01.0		MB RDL %				DUP Qualifier DUP RPD Limits	%	10		Doc Limite LCC Audition		85.0-115		PROJECT:	30094129
		MB MDL %		cate (DUP)	8/27/21 09:29	Dilution DUP RPD	%	1 6.52				100 85.			
Ξ		Qualifier		(OS) • Duplic	⁻⁾ R3697558-3 C	DUP Result	%	2	(2)		KCJ NESUL	50.0 1			0
6 sthod 2540 G-201	MB)	s/27/21 09:29 MB Result %	0.00200	riginal Sample	3/27/21 09:29 • (DUF	Original Result DUP Result	%	85.6 85.6 2000 10 11	III OI SAMPIE (L	08/27/21 09:29 Soils: Amount		50.0		ACCOUNT:	ARCADIS US - New Mexico
WG172916	pass Method Blank (o (MB) R3697558-1 08/27/21 09:29 MB Result MB Result MB	<i>B</i> Total Solids	72/1392616-22 Original Sample (OS) • Duplicate (DUP)	(OS) L1392616-22 05	11:2	Analyte	WTotal Solids		(LCS) R3697558-2 08/27/2109:29 5011/2 4m	Analyte	Total Solids			ARC

WG17286 Wet Chemistry b	WG1728642			0	QUALITY	<u> </u>	20L SI	CONTROL SUMMARY 92626-01.02.03.04.05.06	27				Rec
ethod Blank	< (MB)												eived
B) R3696597-1 alyte	0 MB) R3696597-1 08/25/2112:57 MB Result Malyte mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg									by OCD:
loride	D		9.20	20.0									4/18/2 "
392616-10 (Driginal Sample	(OS) • Dup	licate (DL	(AL									022 7
s) L1392616-10	OS) L1392616-10 08/25/2113:54 • (DUP) R3696597-3 08/25/2114:04 Original Result DUP Result Dilution DUP (drv)) R3696597-3 t DUP Result (drv)	08/25/2114:04 Dilution DUP RPD	RPD	DUP Qualifier	DUP RPD Limits							-09:02
Analyte	mg/kg	mg/kg	•	%	δ	% 00							AM
992616-20 -	L1392616-20 Original Sample (OS) • Duplicate (DUP)	+.vc	olicate (D	(UD)	ΞĮ	D N							6 Gl
s) L1392616-20	(OS) L1392616-20 08/25/21 15:58 • (DUP) R3696597-4 08/25/21 16:08) R3696597-4	. 08/25/2116	3:08									<u>)</u>
Analvte	Original Result (dry) ma/ka	t DUP Result (dry) ma/ka	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %							"Al
Chloride	60.0	81.4	~	30.3	٤I	20							°Sc
aboratory Co	Laboratory Control Sample (LCS)	CS)											
S) R3696597-2	(LCS) R3696597-2 08/25/21 13:06												
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	s LCS Qualifier	lifier							
Chloride	200	197	98.6	90.0-110									
392616-20	L1392616-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	(OS) • Mai	trix Spike	(MS) • Ma	trix Spike	Duplicate (M	SD)						
() L1392616-20	(OS) L1392616-20 08/25/2115:58 • (MS) R3696597-5 08/25/2116:17 • (MSD) R3696597-6 08/25/2116:27	R3696597-5	08/25/2116:	17 • (MSD) R36	396597-6 08	/25/21 16:27							
	Spike Amount (dry)		It MS Result (Original Result MS Result (dry) MSD Result (dry) (dry)			Dilution		MS Qualifier	MSD Qualifier RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%		%	%		
Chloride	643	0.0	730	683	104	90 90	-	80.0-120		8 9 9 9	20		Page 65
													of 18
4	ACCOUNT: ARCADIS US - New Mexico	0		,	PROJECT: 30094129		L13	SDG: L1392626		DATE/TIME: 08/30/21 21:21		PAGE: 13 of 17	81

WG1729538	338 by Method 300.0			Ø	QUALITY	<pre>CONTROL</pre>		SUMMARY	۲۲					Rece
Method Blank	< (MB)													ived [
MB) R3696699-1	08/25/21 21:29 MB Result	MB Qualifier	MB MDL	MB RDL										by OCI ⁺ [−]
Chloride	mg/kg		9 20	mg/kg 20.0										<u>):</u> 4/
: 3/21														18/20
20-1392633-04	21392633-04 Original Sample (OS) • Duplicate (DUP)	(OS) • DL	uplicate (D	(AUC))22 7
C(OS) L1392633-04	08/26/21 00:26 • (DU	P) R3696699	-3 08/26/21	00:36										509
:11:.	Original Result DUP Result	DUP Result	Dilution	D	DUP Qualifier	DUP RPD Limits								;02 س
Analyte	mg/kg	mg/kg	Ū	%		%								4M
Chloride	10.4	11.4	~	9.46		20								6 Qc
L1393250-01	L1393250-01 Original Sample (OS) • Duplicate (DUP)	(OS) • Du	plicate (D	(P)										ل] ۲
(OS) L1393250-01	(OS) L1393250-01 08/26/21 01:51 • (DUP) R3696699-7 08/26/21 02:01	R3696699-7	08/26/210	2:01										5
	Original Result DUP Result	DUP Result	Dilution		DUP Qualifier	DUP RPD Limits								٦ ال
Analyte	mg/kg	mg/kg	Ū	%		%								
Chloride	3710	3740	2 2	0.728		20								SC
l aboratory C	l aboratory Control Sample (LCS)	(S.)												
II CSI R3696699-7 08/75/21 21:39	08/25/21 21:39													
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	er								
Analyte	mg/kg	mg/kg	%	%										
Chloride	200	214	107	90.0-110										
L1393250-01	L1393250-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	(OS) • Ma	ıtrix Spike	(MS) • Mati	ix Spike [Juplicate (M	SD)							
(OS) L1393250-01	(OS) L1393250-01 08/26/21 00:46 • (MS) R3696699-5 08/26/21 01:06 • (MSD) R3696699-6 08/26/21 01:36	R3696699-5	08/26/210	1:06 • (MSD) R3(996699-6 08	/26/21 01:36								I
Analyte	Spike Amount mg/kg	Original Result mg/kg	It MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	er % RPD	RPD Limits %		
Chloride	500	3610	4230	4210	124	120	-	80.0-120	> Ш	ш	0.538	20		I
														Page 66 o j
	ACCOUNT:			đ	PROJECT:			SDG:		DA	DATE/TIME:		PAGE:	f 181
A	ARCADIS US - New Mexico	0		3(30094129		L13	L1392626		08/3	08/30/21 21:21		14 of 17	

GLOSSARY OF TERMS

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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

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.
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.

SDG: L1392626

Received by OCD: 4/18/2022 7:09:02 AMCCREDITATIONS & LOCATIONS

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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
ldaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
_ouisiana	AI30792	Tennessee ¹⁴	2006
_ouisiana	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.

SDG: L1392626 DATE/TIME: 08/30/21 21:21 PAGE: 16 of 17

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ARCADIS US - New Mexico	•	~ 11	Accounts Payable 1004 N Big Spring	Accounts Payable 1004 N Big Spring Street		Pres Chk					Pac	ace Analytical
1004 N Big Spring Street Suite 121			Suite 121 Midland, TX 79701	X 79701			THE COMPANY					•
Midland. TX 79701 Report to: Sarah Johnson		1	Email To: sarah.johnson@arcadis.		com;william.foord@arc		A CONTRACTOR				12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample van the chain of custody constitutes acknowledgment and acceptance o Pace Terms and Conditions found at:	non Rd Mount Juliet, TN 37122 a sample via this chain of custody acknowledgment and acceptance of the and Conditions found at:
Project Description: Candelario 24-1 Batterv	City	City/State Collected:	louing, NM	MN	Please Circle:		er an de				https://mop.pacelabs.co	m/nuors/pas-standard-
Phone: 432-687-5400	Client Project # 30094129		No. AND	Lab Project # CHEVARCNM-CANDEL24-1	1-CANDEL24			s			SDG # C	37.0000 189
Collected by (print):	Site/Facility ID # CANDELARIO 24-1 SWD	24-1 SW		P.O.#		I IIIII		орге			Acctnum: CHEVARCNM	VARCNM
Collected by (signature):	Rush? (Lab MUST Be Notified)	AUST Be N	lotified)	Quote #				-34C			Prelogin: P862625	2625
Ammediately Parked on tee N	Same Day Next Day Two Day	Five Day 5 Day (Ra 10 Day (Five Day 5 Day (Rad Only) 10 Day (Rad Only)	Date Results Needed	ts Needed	र हे हे है)HIm022			PM: 526 - Chris McCord PB: NS 873 Shipped Via: FedEX G	PM: 526 - Chris McCord PB: US 813/21
ample	Comp/Grab	Matrix *	Depth	Date	Time	Critrs	New York	sot			Remarks	Sample # (lab only)
L18012	1.1	SS	0-5	RINA	1335	1				1.2		01
TMW-1-S-0	>	SS	5-1		ENE1	1	×			A STATE		20-
TMU3-1-5-9-10-210817		SS	01-6		1347	1	×		Same and			-03
118012 - 51-14-15 - 210817		SS	1-1-1		1355	1	×					101
1901-05-01-2-1-CIM-		SS	19-20		1400	1	×					-05
T18012-25-24-2-2-1- (147		SS	24-25		1405	1	×					200
TNU-1-S-29-30-210817		SS	29-30	1	011-1	-	×					1.0-
A STATE OF A		SS		Same		1	×	1		/		
	K	SS				1	×					
	1	F	S	12/11/2			×					
F - Filter B - Bioassay	Remarks:								PH Temp. Flow Other		Sample Receipt Ch COC Seal Present/Intact COC Signed/Accurate: Bottles arrive intact:	ct: Lup Y N
WW - WasteWater DW - Drinking Water OT - Other	Samples returned via: UPSFedEx	a: Courier		Traci	Tracking #				- HEVERBOWNER		ent vo	
Relinquished by : (Signature)		Date: 8/17/21	Time: 1810	C Rede	Eived W. TSBnature	ture)	F	≻	Yes// No HCL7MeoH TBR	Preservation Correct/Checked RAD Screen <0.5 mR/hr:	
Rennfogshed by -(Signature)	- BUX	Date:	1 1 1 1 1	1	Received by: (Signature)	ture)		F	o no	Bottles Received:	If preservation required by Login: Date/Time	gin: Date/Time
Relinquished by : (Signature)	Date:		3	Received	eived for lab by: (Signature	: (Signature	V		Date: 2/19/2	OKAD	Hold:	Condition: NCF / OK

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Pace Ana	lytical [®] ANALYT	JCAL REPORT	¹ Cp
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	ARCADIS US - New	Mexico	³ Ss
	Sample Delivery Group:	L1393397	⁴ Cn
	Samples Received:	08/20/2021	⁵ Sr
	Project Number:	30094129	
	Description:	Candelario 24-1 Battery	⁶ Qc
	Site:	CANDELARIO 24-1 SWD	7
	Report To:	Sarah Johnson	Í GI
		1004 N Big Spring Street	⁸ AI
		Suite 121	
		Midland, TX 79701	ီSc

Entire Report Reviewed By: Chu, faph J men

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 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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SB-15-S-14-15-210818 L1393397-01 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:28	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730126 WG1729564	1 1	08/30/21 09:08 08/26/21 18:07	08/30/21 09:16 08/27/21 01:29	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN
SB-15-S-19-20-210818 L1393397-02 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:30	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:08	MCG	Mt. Juliet, TN
SB-16-S-05-210818 L1393397-03 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:33	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:17	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-16-S-4-5-210818 L1393397-04 Solid			Justin Steinmann	08/18/21 10:35	08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:27	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-16-S-9-10-210818 L1393397-05 Solid			Justin Steinmann	08/18/21 10:38	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:36	MCG	Mt. Juliet, TN
			Collected by Justin Steinmann	Collected date/time 08/18/21 10:42	Received da 08/20/21 08	
SB-16-S-14-15-210818 L1393397-06 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	.9124088	08/26/21 18:07	08/27/21 02:46	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-16-S-19-20-210818 L1393397-07 Solid			Justin Steinmann	08/18/21 10:45	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:55	MCG	Mt. Juliet, TN

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SB-17-S-05-210818 L1393397-08 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:48	08/20/21 08:		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730126	1	date/time 08/30/21 09:08	date/time 08/30/21 09:16	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:05	MCG	Mt. Juliet, TN	
SB-17-S-4-5-210818 L1393397-09 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:52	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:14	MCG	Mt. Juliet, TN	
SB-17-S-9-10-210818 L1393397-10 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:54	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:24	MCG	Mt. Juliet, TN	
			Collected by	Collected date/time		Received date/time 08/20/21 08:00	
SB-13-S-14-15-210818 L1393397-11 Solid			Justin Steinmann	08/18/21 09:50	08/20/21 08:	00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:52	MCG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
SB-13-S-19-20-210818 L1393397-12 Solid			Justin Steinmann	08/18/21 09:58	08/20/21 08	00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 04:02	MCG	Mt. Juliet, TN	
			Collected by Justin Steinmann	Collected date/time 08/18/21 10:00	Received da 08/20/21 08		
SB-14-S-05-210818 L1393397-13 Solid					00/20/21/00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729564	10	08/26/21 18:07	08/27/21 04:11	MCG	Mt. Juliet, TN	
SB-14-S-4-5-210818 L1393397-14 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:03	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730128	1	date/time 08/30/21 08:11	date/time 08/30/21 08:20	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729565	10	08/26/21 18:10	08/26/21 21:48	MCG	Mt. Juliet, TN	

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SB-14-S-9-10-210818 L1393397-15 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:05	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730128 WG1729565	1 4.62963	08/30/21 08:11 08/26/21 18:10	08/30/21 08:20 08/26/21 21:57	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-14-S-14-15-210818 L1393397-16 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:08	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730128 WG1729565	1 1	08/30/21 08:11 08/26/21 18:10	08/30/21 08:20 08/26/21 22:06	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-14-S-19-20-210818 L1393397-17 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:12	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730128 WG1729565	1 1	08/30/21 08:11 08/26/21 18:10	08/30/21 08:20 08/26/21 22:15	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-15-S-05-210818 L1393397-18 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:22		Received date/time 08/20/21 08:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730128 WG1729565	1 1	08/30/21 08:11 08/26/21 18:10	08/30/21 08:20 08/26/21 22:51	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-15-S-4-5-210818 L1393397-19 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:23	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730128 WG1729565	1 1	08/30/21 08:11 08/26/21 18:10	08/30/21 08:20 08/26/21 23:18	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-15-S-9-10-210818 L1393397-20 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:25	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 1	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/26/21 23:26	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
TMW-2-S-05-210818 L1393397-21 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 08:51	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 1	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/26/21 23:35	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	

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			Collected by	Collected date/time	Received da	te/time	
TMW-2-S-4-5-210818 L1393397-22 Solid			Justin Steinmann	08/18/21 08:55	08/20/21 08	:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 .9090909	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/26/21 23:44	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
TMW-2-S-9-10-210818 L1393397-23 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 08:59	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	СМК	Mt. Juliet, TN	
Net Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 23:53	MCG	Mt. Juliet, TN	
TMW-2-S-14-15-210818 L1393397-24 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:03	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 00:02	MCG	Mt. Juliet, TN	
TMW-2-S-19-20-210818 L1393397-25 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:05		Received date/time 08/20/21 08:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 .9157509	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/27/21 00:11	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
TMW-2-S-24-25-210818 L1393397-26 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:06	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	СМК	Mt. Juliet, TN	
Net Chemistry by Method 300.0	WG1729565	.907441	08/26/21 18:10	08/27/21 00:20	MCG	Mt. Juliet, TN	
TMW-2-S-29-30-210818 L1393397-27 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:10	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 1	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/27/21 00:29	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-13-S-05-210818 L1393397-28 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:45	Received da 08/20/21 08:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 01:05	MCG	Mt. Juliet, TN	

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SB-13-S-4-5-210818 L1393397-29 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:46	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730130 WG1729565	1 .9242144	08/30/21 07:59 08/26/21 18:10	08/30/21 08:09 08/27/21 01:14	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-13-S-9-10-210818 L1393397-30 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 09:48	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729565	1 .9242144	08/30/21 07:44 08/26/21 18:10	08/30/21 07:56 08/27/21 01:23	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-17-S-14-15-210818 L1393397-31 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:56	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729565	1 .9124088	08/30/21 07:44 08/26/21 18:10	08/30/21 07:56 08/27/21 01:32	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-17-S-19-20-210818 L1393397-32 Solid			Collected by Justin Steinmann	Collected date/time 08/18/21 10:59		Received date/time 08/20/21 08:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729565	1 .9328358	08/30/21 07:44 08/26/21 18:10	08/30/21 07:56 08/27/21 01:41	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-18-S-05-210819 L1393397-33 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 08:45	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729565	1 1	08/30/21 07:44 08/26/21 18:10	08/30/21 07:56 08/27/21 01:50	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-18-S-4-5-210819 L1393397-34 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 08:47	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729567	1 1	08/30/21 07:44 08/26/21 17:03	08/30/21 07:56 08/26/21 19:16	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-18-S-9-10-210819 L1393397-35 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 08:49	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729567	1	08/30/21 07:44 08/26/21 17:03	08/30/21 07:56 08/26/21 19:25	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	

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SB-18-S-14-15-210819 L1393397-36 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 08:52	Received da 08/20/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729567	1 1	08/30/21 07:44 08/26/21 17:03	08/30/21 07:56 08/26/21 19:35	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN
SB-18-S-19-20-210819 L1393397-37 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 08:55	Received da 08/20/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:44	MCG	Mt. Juliet, TN
SB-19-S-05-210819 L1393397-38 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:00	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:54	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-19-S-4-5-210819 L1393397-39 Solid			Justin Steinmann	08/19/21 09:03	08/20/21 08:	.00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730131 WG1729567	1 1	08/30/21 07:44 08/26/21 17:03	08/30/21 07:56 08/26/21 20:03	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN
			Collected by	Collected date/time		
SB-19-S-9-10-210819 L1393397-40 Solid			Justin Steinmann	08/19/21 09:05	08/20/21 08:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:13	MCG	Mt. Juliet, TN
SB-19-S-14-15-210819 L1393397-41 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:08	Received da 08/20/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:22	MCG	Mt. Juliet, TN
SB-19-S-19-20-210819 L1393397-42 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:10	Received da 08/20/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN
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SB-20-S-05-210819 L1393397-43 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:12	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1730132 WG1729567	1 5	08/30/21 07:37 08/26/21 17:03	08/30/21 07:43 08/26/21 21:01	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN	
SB-20-S-4-5-210819 L1393397-44 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:15	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Net Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:20	MCG	Mt. Juliet, TN	
SB-20-S-9-10-210819 L1393397-45 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:18	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:29	MCG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
SB-20-S-14-15-210819 L1393397-46 Solid			Justin Steinmann	08/19/21 09:20	08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:41	MCG	Mt. Juliet, TN	
			Collected by Justin Steinmann	Collected date/time 08/19/21 09:24	Received da 08/20/21 08		
SB-20-S-19-20-210819 L1393397-47 Solid					00/20/2100	.00	
Vethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:50	MCG	Mt. Juliet, TN	
SB-21-S-05-210819 L1393397-48 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:28	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Net Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 22:00	MCG	Mt. Juliet, TN	
SB-21-S-4-5-210819 L1393397-49 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:30	Received da 08/20/21 08		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	СМК	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1729567	10	08/26/21 17:03	08/26/21 22:09	MCG	Mt. Juliet, TN	

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			Collected by	Collected date/time	Received da	te/time
SB-21-S-9-10-210819 L1393397-50 Solid			Justin Steinmann	08/19/21 09:33	08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	5	08/26/21 17:03	08/26/21 22:19	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-21-S-14-15-210819 L1393397-51 Solid			Justin Steinmann	08/19/21 09:35	08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1729567	10	08/26/21 17:03	08/26/21 22:48	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-21-S-19-20-210819 L1393397-52 Solid			Justin Steinmann	08/19/21 09:40	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	5	08/26/21 17:03	08/26/21 23:26	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-22-S-05-210819 L1393397-53 Solid			Justin Steinmann	08/19/21 09:42	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 23:35	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-22-S-4-5-210819 L1393397-54 Solid			Justin Steinmann	08/19/21 09:45	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:00	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-22-S-9-10-210819 L1393397-55 Solid			Justin Steinmann	08/19/21 09:47	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	5	08/26/21 23:50	08/27/21 05:09	MCG	Mt. Juliet, TN
SB-22-S-14-15-210819 L1393397-56 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:49	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:18	MCG	Mt. Juliet, TN

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SB-22-S-19-20-210819 L1393397-57 Solid			Collected by Justin Steinmann	Collected date/time 08/19/21 09:52	Received da 08/20/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:27	MCG	Mt. Juliet, Th
			Collected by	Collected date/time	Received da	
SB-23-S-05-210819 L1393397-58 Solid			Justin Steinmann	08/19/21 09:54	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:36	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
SB-23-S-4-5-210819 L1393397-59 Solid			Justin Steinmann	08/19/21 09:56	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	5	08/26/21 23:50	08/27/21 06:20	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-23-S-9-10-210819 L1393397-60 Solid			Justin Steinmann	08/19/21 09:59	08/20/21 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730134	1	08/30/21 09:11	08/30/21 09:19	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 06:29	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-23-S-14-15-210819 L1393397-61 Solid			Justin Steinmann	08/19/21 10:02	08/20/21 08	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	_	
Total Solids by Method 2540 G-2011	WG1730134	1	08/30/21 09:11	08/30/21 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 06:38	MCG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
SB-23-S-19-20-210819 L1393397-62 Solid			Justin Steinmann	08/19/21 10:06	08/20/21 08	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	W/C1720124	1	date/time	date/time 08/30/21 09:19	CMU	Mt Indiat Th
Vet Chemistry by Method 300.0	WG1730134 WG1729568	1 1	08/30/21 09:11 08/26/21 23:50	08/30/21 09:19 08/27/21 06:56	CMK MCG	Mt. Juliet, TN Mt. Juliet, TN
wer chemistry by Method 500.0	WG1/29000	1	00/20/2123.30	00/2//21 00.00	INICO	wit. Juliet, TN

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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.

ue, topl S

Chris McCord Project Manager



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SAMPLE RESULTS - 01 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.2		1	08/30/2021 09:16	<u>WG1730126</u>	Тс

Wet Chemistry	by Method 300	0.C						Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	26.5		10.2	22.2	1	08/27/2021 01:29	WG1729564	CII



SAMPLE RESULTS - 02 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.0		1	08/30/2021 09:16	<u>WG1730126</u>	¯Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	65.4		9.79	21.3	1	08/27/2021 02:08	WG1729564		



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SAMPLE RESULTS - 03

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	77.0		1	08/30/2021 09:16	<u>WG1730126</u>	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	172		11.9	26.0	1	08/27/2021 02:17	WG1729564

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SAMPLE RESULTS - 04 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	84.7		1	08/30/2021 09:16	<u>WG1730126</u>	^ˆ Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	175		10.9	23.6	1	08/27/2021 02:27	WG1729564		



SDG: L1393397

SAMPLE RESULTS - 05 L1393397

Total Solids by Method 2540 G-2011

l otal Solids by Method 2540 G-2011									
	Result	Qualifier	Dilution	Analysis	Batch	Cp			
Analyte	%			date / time		2			
Total Solids	89.7		1	08/30/2021 09:16	WG1730126	Tc			

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	21.4	J	10.3	22.3	1	08/27/2021 02:36	WG1729564		CII

SDG: L1393397

SAMPLE RESULTS - 06

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.0		1	08/30/2021 09:16	<u>WG1730126</u>	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	26.5		9.54	20.7	.9124088	08/27/2021 02:46	WG1729564



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SAMPLE RESULTS - 07

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.7		1	08/30/2021 09:16	<u>WG1730126</u>	² Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	L
Analyte	mg/kg		mg/kg	mg/kg		date / time		4
Chloride	31.0		9.72	21.1	1	08/27/2021 02:55	WG1729564	L

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SAMPLE RESULTS - 08 L1393397

Total Solids by Method 2540 G-2011

I otal Solids by N	I otal Solids by Method 2540 G-2011								
	Result	Qualifier	Dilution	Analysis	Batch		Ср		
Analyte	%			date / time		2	,		
Total Solids	80.6		1	08/30/2021 09:16	WG1730126	2.	Тс		

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	172		11.4	24.8	1	08/27/2021 03:05	WG1729564



SAMPLE RESULTS - 09 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.1		1	08/30/2021 09:16	<u>WG1730126</u>	¯Тс

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	75.1		9.67	21.0	1	08/27/2021 03:14	WG1729564		



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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.1		1	08/30/2021 08:20	<u>WG1730128</u>	тс

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	193		9.78	21.3	1	08/27/2021 03:24	WG1729564		



SAMPLE RESULTS - 11

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.9		1	08/30/2021 08:20	WG1730128	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	385		9.60	20.9	1	08/27/2021 03:52	WG1729564



Ss

SAMPLE RESULTS - 12 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.8		1	08/30/2021 08:20	<u>WG1730128</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	138		10.7	23.3	1	08/27/2021 04:02	WG1729564		

SDG: L1393397

SAMPLE RESULTS - 13

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1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	80.6		1	08/30/2021 08:20	<u>WG1730128</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11000	V	114	248	10	08/27/2021 04:11	WG1729564

Ss

SAMPLE RESULTS - 14 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	93.7		1	08/30/2021 08:20	<u>WG1730128</u>	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	7350		98.2	213	10	08/26/2021 21:48	WG1729565		СП

SAMPLE RESULTS - 15 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	97.5		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1160		43.7	95.0	4.62963	08/26/2021 21:57	WG1729565		СП

SDG: L1393397

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SAMPLE RESULTS - 16

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.3		1	08/30/2021 08:20	<u>WG1730128</u>	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	283		9.46	20.6	1	08/26/2021 22:06	WG1729565	



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SDG: L1393397

SAMPLE RESULTS - 17 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.7		1	08/30/2021 08:20	WG1730128	Тс

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	219	<u>J6</u>	9.51	20.7	1	08/26/2021 22:15	WG1729565	СП

SDG: L1393397

SAMPLE RESULTS - 18 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	81.0		1	08/30/2021 08:20	<u>WG1730128</u>	тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	554		11.4	24.7	1	08/26/2021 22:51	WG1729565		

SAMPLE RESULTS - 19 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.9		1	08/30/2021 08:20	<u>WG1730128</u>	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	287		9.91	21.5	1	08/26/2021 23:18	WG1729565		



SAMPLE RESULTS - 20 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.3		1	08/30/2021 08:09	<u>WG1730130</u>	Тс

Wet Chemistry	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	97.8		10.4	22.7	1	08/26/2021 23:26	WG1729565	CII

SAMPLE RESULTS - 21 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	79.4		1	08/30/2021 08:09	<u>WG1730130</u>	Tc

Wet Chemistry	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	U		11.6	25.2	1	08/26/2021 23:35	WG1729565	

SAMPLE RESULTS - 22 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2)
Total Solids	98.0		1	08/30/2021 08:09	<u>WG1730130</u>	2	Тс

Wet Chemistry by Method 300.0

Wet Chemistry	y by Method 300	0.0						Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	82.6		8.53	18.6	.909090 9	08/26/2021 23:44	WG1729565	СП

SDG: L1393397



SAMPLE RESULTS - 23 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.8		1	08/30/2021 08:09	<u>WG1730130</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	38.3		10.2	22.3	1	08/26/2021 23:53	WG1729565	

SDG: L1393397

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1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	91.0		1	08/30/2021 08:09	WG1730130	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	44.4		10.1	22.0	1	08/27/2021 00:02	WG1729565	



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SDG: L1393397

SAMPLE RESULTS - 25 L1393397

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	70.9		1	08/30/2021 08:09	<u>WG1730130</u>	² Тс

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	559		11.9	25.8	.9157509	08/27/2021 00:11	WG1729565	CII

SDG: L1393397

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Total Solids by Method 2540 G-2011

I otal Solids by N	Method 2540 G-2	2011				1
	Result	Qualifier	Dilution	Analysis	Batch	Cp
Analyte	%			date / time		2
Total Solids	97.3		1	08/30/2021 08:09	<u>WG1730130</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	202		8.59	18.7	.907441	08/27/2021 00:20	WG1729565		СП



SDG: L1393397

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SAMPLE RESULTS - 27

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	66.7		1	08/30/2021 08:09	<u>WG1730130</u>	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	1030		13.8	30.0	1	08/27/2021 00:29	WG1729565	



SAMPLE RESULTS - 28 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.9		1	08/30/2021 08:09	<u>WG1730130</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	974		10.5	22.8	1	08/27/2021 01:05	WG1729565		CII	

SDG: L1393397

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SAMPLE RESULTS - 29 L1393397

Total Solids by Method 2540 G-2011

Total Solids by N	Method 2540 G-2	2011				1 C p
	Result	Qualifier	Dilution	Analysis	Batch	- Cp
Analyte	%			date / time		2
Total Solids	86.6		1	08/30/2021 08:09	<u>WG1730130</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	69.3		9.81	21.3	.9242144	08/27/2021 01:14	WG1729565	



SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 30 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.8		1	08/30/2021 07:56	<u>WG1730131</u>	¯Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	90.6		9.68	21.1	.9242144	08/27/2021 01:23	WG1729565		



SDG: L1393397

SAMPLE RESULTS - 31 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.1		1	08/30/2021 07:56	WG1730131	тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	63.2		9.42	20.5	.9124088	08/27/2021 01:32	WG1729565		



SAMPLE RESULTS - 32 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	%			date / time		F
Total Solids	96.7		1	08/30/2021 07:56	<u>WG1730131</u>	

Wet Chemistry by Method 300.0 Result (dry) Qualifier MDL (dry) RDL (dry) Dilution Analysis Batch									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time		4	'n
Chloride	138		8.87	19.3	.932835 8	08/27/2021 01:41	WG1729565		-11

SAMPLE RESULTS - 33 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	86.6		1	08/30/2021 07:56	WG1730131	ŤС

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	83.1		10.6	23.1	1	08/27/2021 01:50	WG1729565		CII



SDG: L1393397

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Received by QCD: 211882132 7:09:02 AM Collected date/time: 08/19/21 08:47

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.1		1	08/30/2021 07:56	WG1730131	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	118		10.8	23.5	1	08/26/2021 19:16	WG1729567	



SAMPLE RESULTS - 35 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.5		1	08/30/2021 07:56	<u>WG1730131</u>	Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	37.1		9.94	21.6	1	08/26/2021 19:25	WG1729567		СП



SAMPLE RESULTS - 36 L1393397

1

Total Solids by Method 2540 G-2011

	Result	Qualifier Dilut	on Analysis	Batch		Ср
Analyte	%		date / time		2	
Total Solids	94.0	1	08/30/2021 07:56	6 <u>WG1730131</u>	ŤΤ	Гс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	104		9.79	21.3	1	08/26/2021 19:35	WG1729567		CII



SAMPLE RESULTS - 37 L1393397

Total Solids by Method 2540 G-2011

I otal Solids by N	l otal Solids by Method 2540 G-2011									
	Result	Qualifier	Dilution	Analysis	Batch					
Analyte	%			date / time		2				
Total Solids	98.4		1	08/30/2021 07:56	WG1730131	Tc				

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	89.1		9.35	20.3	1	08/26/2021 19:44	WG1729567

SDG: L1393397

SAMPLE RESULTS - 38 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.9		1	08/30/2021 07:56	<u>WG1730131</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	329		10.5	22.8	1	08/26/2021 19:54	<u>WG1729567</u>		

SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 39

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.4		1	08/30/2021 07:56	<u>WG1730131</u>	тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	253		9.54	20.7	1	08/26/2021 20:03	<u>WG1729567</u>	



SAMPLE RESULTS - 40 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.0		1	08/30/2021 07:43	WG1730132	¯Тс

Wet Chemistry by Method 300.0

Wet Chemist	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	78.9		9.49	20.6	1	08/26/2021 20:13	<u>WG1729567</u>		СП	



SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 41

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.8		1	08/30/2021 07:43	WG1730132	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	130		9.51	20.7	1	08/26/2021 20:22	WG1729567	



SAMPLE RESULTS - 42 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.9		1	08/30/2021 07:43	WG1730132	¯Тс

Wet Chemistry	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	293		9.50	20.6	1	08/26/2021 20:51	WG1729567		CII	



SAMPLE RESULTS - 43 L1393397

Total Solids by Method 2540 G-2011

	Resu	lt Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	86.4		1	08/30/2021 07:43	<u>WG1730132</u>	^² Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1340		53.3	116	5	08/26/2021 21:01	WG1729567		



SAMPLE RESULTS - 44 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.9		1	08/30/2021 07:43	<u>WG1730132</u>	¯Тс

Wet Chemistry I	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	724		9.59	20.9	1	08/26/2021 21:20	WG1729567		CII	



SAMPLE RESULTS - 45 L1393397

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	91.5		1	08/30/2021 07:43	WG1730132	ЪС

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	580		10.1	21.9	1	08/26/2021 21:29	<u>WG1729567</u>		

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.3		1	08/30/2021 07:43	WG1730132	ŤС

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		 ⁴ Cn
Chloride	288		9.46	20.6	1	08/26/2021 21:41	WG1729567	CII

SDG: L1393397

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SAMPLE RESULTS - 47 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.2		1	08/30/2021 07:43	WG1730132	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	555		9.56	20.8	1	08/26/2021 21:50	<u>WG1729567</u>		CII



SAMPLE RESULTS - 48

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.3		1	08/30/2021 07:43	WG1730132	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	795		10.4	22.7	1	08/26/2021 22:00	WG1729567



SAMPLE RESULTS - 49

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.9		1	08/30/2021 07:43	WG1730132	¯Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	4050		102	222	10	08/26/2021 22:09	<u>WG1729567</u>	



SAMPLE RESULTS - 50 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.4		1	08/30/2021 07:33	WG1730133	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1250		52.0	113	5	08/26/2021 22:19	WG1729567		CII



SDG: L1393397

DATE/TIME: 08/31/21 22:01

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Repeized by 0CD 54/28/302207:09:02 AM Collected date/time: 08/19/21 09:35

SAMPLE RESULTS - 51 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.7		1	08/30/2021 07:33	WG1730133	ŤС

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	L	
Analyte	mg/kg		mg/kg	mg/kg		date / time		2	⁴ Cn
Chloride	3530	<u>J3 V</u>	101	220	10	08/26/2021 22:48	WG1729567		CII

SAMPLE RESULTS - 52 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.5		1	08/30/2021 07:33	<u>WG1730133</u>	^ˆ Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1420		47.7	104	5	08/26/2021 23:26	WG1729567		CII



SDG: L1393397

SAMPLE RESULTS - 53 L1393397

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	93.1		1	08/30/2021 07:33	WG1730133	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	U		9.89	21.5	1	08/26/2021 23:35	WG1729567		СП

SAMPLE RESULTS - 54

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	84.6		1	08/30/2021 07:33	WG1730133	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	-
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	73.5		10.9	23.6	1	08/27/2021 05:00	<u>WG1729568</u>	_



SAMPLE RESULTS - 55

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	93.2		1	08/30/2021 07:33	<u>WG1730133</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1190		49.3	107	5	08/27/2021 05:09	WG1729568



SAMPLE RESULTS - 56 L1393397

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.6		1	08/30/2021 07:33	<u>WG1730133</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	333		10.3	22.3	1	08/27/2021 05:18	WG1729568		

SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 57 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.8		1	08/30/2021 07:33	WG1730133	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	137		10.5	22.8	1	08/27/2021 05:27	WG1729568		CII



SAMPLE RESULTS - 58

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.4		1	08/30/2021 07:33	WG1730133	ЪС

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	68.9		9.96	21.6	1	08/27/2021 05:36	WG1729568



SAMPLE RESULTS - 59 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.4		1	08/30/2021 07:33	WG1730133	¯Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	1540		49.8	108	5	08/27/2021 06:20	WG1729568		CII



SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 60 L1393397

1

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.7		1	08/30/2021 09:19	WG1730134	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	404		9.32	20.3	1	08/27/2021 06:29	WG1729568		



SAMPLE RESULTS - 61 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.4		1	08/30/2021 09:19	WG1730134	тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	680		9.54	20.7	1	08/27/2021 06:38	WG1729568		CII



SDG: L1393397

DATE/TIME: 08/31/21 22:01

SAMPLE RESULTS - 62 L1393397

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.0		1	08/30/2021 09:19	<u>WG1730134</u>	¯Тс

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	491		9.39	20.4	1	08/27/2021 06:56	WG1729568		СП


Rece	ived t	y OCD:	4/18/202	22 7. •	-09 :0	02 A 5	М	o G C	ō	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ī	Sc	Page 145 of	<i>181</i>
														PAGE: 76 of 95
														DATE/TIME: 08/31/21 22:01
ITROL SUMMARY <u>03.04.05.06.07.08.09</u>														SDG: L1393397
QUALITY CONTROL SUMP 11393397-01,02,03,04,05,06,07,08,0 <u>9</u>		MB RDL %		(c		DUP Qualifier	%			Rec. Limits LCS Qualifier	%	85.0-115		PROJECT: 30094129
		<u>MB Qualifier</u> MB MDL %) • Duplicate (DUF	98207-3 08/30/2109:16	Dilution	%	-		LCS Result LCS Rec.		100		
6 ethod 2540 G-2011	(MB)	3/30/21 09:16 MB Result MB C %	0.000	1393397-03 Original Sample (OS) • Duplicate (DUP)	8/30/21 09:16 • (DUP) R36	ginal Result	% FF	iple (LC)8/30/21 09:16	nount		50.0 50.0		ACCOUNT: ARCADIS US - New Mexico
WG173012	post Method Blank (MIB) R3698207-1 08/30/21 09:16 MB Result MB Analyte %	Total Solids 3/21/	C01233397-03 C	(OS) L1393397-03 0	11:2	Analyte		(LCS) R3698207-2 08/30/21 09:16		Analyte	Total Solids		ARC

WG1730128	3 1100 2540 G-2011			g	QUALITY CONTROL	0L SUMMARY 15 16 17 18 19			Rec
Method Blank (N	/B)								eived
0 MB) R3698192-1 08/30/21 08:20 MB Result	30/21 08:20 MB Result MB	Qualifier	MB MDL	MB RDL					by OCL
Suralyte Tratal Solids	%		%	%): 4
SDIIOC IBIO : 3/21	0000								/18/20
CL1393397-14 Original Sample (OS) • Duplicate (DUP)	ginal Sample (OS) • Duplic	sate (DL	(di)22 7
C(OS) L1393397-14 08/.	30/21 08:20 • (DUP) R3(598192-3 0	8/30/21 08	:20					509
:11:.	Original Result DUP Result	P Result	Dilution DUP RPD	PD	DUP Qualifier DUP RPD Limits				د 02: ن
ZZ Analyte	%		%		%				AM 0
W Total Solids	93.7 93.4		1	0.328	10				6 QC
Laboratory Cont	Laboratory Control Sample (LCS)								ے ک
(LCS) R3698192-2 08/30/21 08:20									
	ke Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				8 Al
Analyte			%	%					
Total Solids	50.0 50.0		100	85.0-115					ر م
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	ACCOUNT:			PR	PROJECT:	SDG:	DATE/TIME:	PAGE:	181
	ARCADIS US - New Mexico			30	30094129	L1393397	08/31/21 22:01	77 of 95	

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														PAGE:	78 of 95
														DATE/TIME:	08/31/21 22:01
_ITY CONTROL SUMMARY u1393397-20,21,22,23,24,25,26,27,28,29														SDG:	L1393397
QUALITY CON 11333377-20,21,2		MB RDL %		(d		PRPD DUP Qualifier DUP RPD Limits		10		Rec. Limits LCS Qualifier	%	85.0-115		PROJECT:	30094129
		<u>MB Qualifier</u> MB MDL %)S) • Duplicate (DUI	3698185-3 08/30/21 08:0	UP Result Dilution DUP RPD		89.5 1 1.61		LCS Result LCS Rec.	%	49.9 99.8			
30 Method 2540 G-2011	k (MB)	© (MB) R3698185-1 08/30/21 08:09 MB Result MB Mnalyte %	0.00100	221393397-24 Original Sample (OS) • Duplicate (DUP)	08/30/21 08:09 • (DUP) R	Original Result DUP Result		Total Solids 91.0 89. A shoratory Control Sample (LCS)		nount	%	50.0 49		ACCOUNT:	ARCADIS US - New Mexico
WG17301	period Blank	o (MB) R3698185-1 (MB) R3698185-1 (MB) R3698185-1 (Total Solids	20-203397-24	OS) L1393397-24	11:2	Analyte	Motal Solids			Analyte	Total Solids			A

MB RDL %
Ē
COST 1393397-34 OR 30/21 07:56 • (DUP) R3698180-3 08/30/21 07:56
Dilution DUP RPD DUP Qualifier
%
0.872
85.0-115
PROJECT: 30094129

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														PAGE:	80 of 95
														DATE/TIME:	08/31/21 22:01
LITY CONTROL SUMMARY L1333397-40.41.42.43.445.46.47.48.49														SDG:	L1393397
QUALITY CON ¹ 11393397-40,41,42		MB RDL %		(PD DUP Qualifier	90			Rec. Limits LCS Qualifier		85.0-115		PROJECT:	30094129
		lifier MB MDL %		Duplicate (DUP	178-3 08/30/21 07:43	sult Dilution DUP RPD	1 0.661			sult LCS Rec.		100			
od 2540 G-2011	3)	21 07:43 MB Result MB Qualifier %	0.00200	inal Sample (OS) •)/21 07:43 • (DUP) R3698	Original Result DUP Result	, % % %	I Sample (LCS)		Spike Amount LCS Result		50.0 50.0		ACCOUNT:	ARCADIS US - New Mexico
WG1730132	pase Method Blank (ME	© (MB) R3698178-1 08/30/21 07:43 MB Result MB Result MB Result %	Total Solids	21393397-45 Original Sample (OS) • Duplicate (DUP)	(OS) L1393397-45 08/30	11:22	Total Solids	aboratory Control Sample (LCS)		(LCJ) K30981/8-2 U8/31	Analyte	Total Solids			ARCADIS

Rece	ived b		4/18/202	22 7: •	99	02 A 5		⁶ C Z	5		A	6	ບ ທີ່	f 181	
														PAGE:	81 of 95
														DATE/TIME:	08/31/21 22:01
_ITY CONTROL SUMMARY 														SDG:	L1393397
QUALITY CON		ZDL				DUP Qualifier DUP RPD Limits	%	9		Rec. Limits LCS Qualifier		-115		PROJECT:	30094129
		MB MDL MB RDL %		ate (DUP)	30/21 07:33	Dilution DUP RPD	%	0.546		LCS Rec. Rec.		0 85.0-115			
		Qualifier		(OS) • Duplic	R3698176-3 08/	DUP Result Di		92.9 1	(~~	LCS Result LC		50.0 100			
3 thod 2540 G-2011	/B)	30/21 07:33 MB Result %	0.000	iginal Sample	/30/21 07:33 • (DUP)	Original Result DUP Result	%	92.4 trol Samole (I C		nount		50.0		ACCOUNT:	ARCADIS US - New Mexico
WG173013	Method Blank (N	0 (MB) R3698176-1 08/30/21 07:33 MB Result MB Analyte %	Total Solids <i>3/571</i>	22-1393397-59 Original Sample (OS) • Duplicate (DUP)	(OS) L1393397-59 08	11:2	Z Analyte	😿 Total Solids 92.4 92. Laboratory Control Sample (LCS)		(LUS) KJOJOI/0-2 UQ	Analyte	Total Solids			

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														PAGE: 82 of 95
														DATE/TIME: 08/31/21 22:01
-ROL SUMMARY														SDG: L1393397
QUALITY CONTROL 11393397-60-61-62		RDL				DUP Qualifier Limits	%	Q		Rec. Limits LCS Qualifier				PROJECT: 30094129
		MB MDL MB RDL %		uplicate (DUP)	3-3 08/30/21 09:19	Dilution DUP RPD	%	1 2.00		LCS Rec. Rec.				
2540 G-2011		09:19 MB Result MB Qualifier %	0.00200	al Sample (OS) • D	1 09:19 • (DUP) R369834:	Original Result DUP Result		91.1 92.9 Sample (LCS)	1 09:19	Spike Amount LCS Result				ACCOUNT: ARCADIS US - New Mexico
WG1730134	period Blank (MB)	© (MB) R3698343-1 08/30/2109:19 MB Result MB Result MB	Total Solids	21-1393398-05 Original Sample (OS) • Duplicate (DUP)	OS) L1393398-05 08/30/2	11:2		ds atory Control ((LCS) R3698343-2 08/30/21 09:19	~				ACC ARCADIS US

WG1729564	4 Method 300.0			g	QUALITY L1393397-01	CONTROL SUMMARY .02.03.04.05.06.07.08.09.10.11.12.13	OL SI.	JMMAF .10,11,12,13	X					Rece
post Method Blank (I	AB)													ived l
MB) R3697250-1 08/27/21 00:04 MB Result Mahahre	/27/21 00:04 MB Result ma/ka	MB Qualifier	MB MDL ma/ka	MB RDL ma/ka										y OCD
Chloride	n N		9.20	20.0										: 4/1
2/21/28 20_1393397-01 Original Sample (OS) • Duplicate (DUP)	iginal Sample (OS) • Dupl	licate (DUF	$\widehat{\mathbf{O}}$										
230 10-202302-01 08	101101 - 00-1011010	R3697750-3	101/27/01-58	~										750
9:11:2	Original Result DUP Result (dry) (dry)	DUP Result (dry)	Dilution DUI	ZPD	DUP Qualifier Li	DUP RPD Limits								ی س
Analyte	mg/kg	mg/kg	%		%									4 <i>M</i>
Chloride	26.5	31.1	1 15.9	0	2	20								6 C C
L1393397-13 Original Sample (OS) • Duplicate (DUP)	iginal Sample (OS) • Dupl	icate (DUF	(c										⁷ GI
(OS) L1393397-13 08/27/21 04:11 • (DUP) R3697250-4 08/27/21 04:21	'27/21 04:11 • (DUP) F	3697250-4 C	18/27/21 04:21											;
	Original Result DUP Result (dry) (dry)	DUP Result (dry)	Dilution DUP RPD		DUP Qualifier D	DUP RPD Limits								ها ۲
Analyte	mg/kg	mg/kg	%		%									
Chloride	11000	11200	10 1.02	5	2	20								° Sc
Laboraton/Control Sample / (S)	trol Sample (1.0	() U												
														1
(LCS) R3697250-2 08/27/21 00:13 Spike A	8/27/21 00:13 Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	, ,								
Analyte	mg/kg		%	%										
Chloride	200	196	98.2	90.0-110										
L1393397-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	iginal Sample (OS) • Matr	ix Spike (N	1S) • Matrix	< Spike Du	Iplicate (MSI	()							
(OS) L1393397-13 08/27/21 04:11 • (MS) R3697250-5 08/27/21 04:30 • (MSD) R3697250-6 08/27/21 04:40	'27/21 04:11 • (MS) R3	3697250-5 05	3/27/21 04:30	• (MSD) R3697	250-6 08/27	/21 04:40								I
	Spike Amount (dry)		Original Result MS Result (dry) (dry)	 MSD Result (dry) 	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	ier RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%		
Chloride	620	11000	11700	13900	97.2	452	0	80.0-120		> 	17.3	20		1
														Page 152 oj
	ACCOUNT:			PRC	PROJECT:		-	SDG:		DA	DATE/TIME:		PAGE:	f 181
ARC	ARCADIS US - New Mexico			30(30094129		51	L1393397		08/2	08/31/21 22:01		83 of 95	

WG172	WG1729565 Wet Chemistry by Method 300.0			Q L1393397	QUALITY 3397-14,15,16,17,1	QUALITY CONTROL SUMMARY 11393397-14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33	OL SL 3,24,25,26,3	SUMMARY 5,26,27,28,29,30,31,	۲ 31,32,33				Rece
Method Bl	ank (MB)												ived t
0 (MB) R3697314 2 Malvte	0 (MB) R3697314-1 08/26/21 21:31 MB Result	MB Qualifier	MB MDL	MB RDL									y OCD
Chloride	n N		9.20	20.0									: 4/1
3/21/													(8/20 /
,-2023937-, 202	21393397-17 Original Sample (OS) • Duplicate (DUP)	(OS) • Dup	licate (DL	(dr									22 7. t
C(OS) L1393397-	COS) L1393397-17 08/26/21 22:15 • (DUP) R3697314-3 08/26/21 22:24) R3697314-3	08/26/21 22:2	24									:09
:11:2	Original Resul (dry)	Original Result DUP Result (dry) (dry)	Dilution D	RPD	DUP Qualifier	DUP RPD Limits							2 یا س
Analyte	mg/kg	mg/kg	%			%							4 <i>M</i>
Chloride	219	227	1	3.72		20							° Cc
L1393397-2	L1393397-27 Original Sample (OS) • Duplicate (DUP)	و (OS) و Du _l	olicate (DI	JP)									⁷ GI
(OS) L1393397-	(OS) L1393397-27 08/27/21 00:29 • (DUP) R3697314-6 08/27/21 00:38	IP) R3697314-6	08/27/2100	:38									;
	Original Result (dry)	lt DUP Result (dry)	Dilution DUP RPD	PD	DUP Qualifier	DUP RPD Limits							"⊗ A
Analyte	mg/kg	mg/kg	%			%							
Chloride	1030	1180	1	13.9		20							°Sc
-	- - - - (((
Laboratory	Laboratory Control Sample (LCS)	(2)-											
(LCS) R369731 [,]	(LCS) R3697314-2 08/26/21 21:39												
Analito	Spike Amount	t LCS Result	LCS Rec. %	Rec. Limits	LCS Qualifier	ier							
Chlorido	6v/6···	108	00 0	00 0 110									
Unionae 1 1303307-1	uniolue zu 138 36.0 30.0 198 36.0 30.0-110 1 1 3 9 3 3 9 7 - 17 Original Samula (OS) • Matrix Snika Dunlicata (MSD)	136 Mati	^{30.0} ix Snika (MS) • Matri	× Snike D	(MS) (MS)							
(OS) L1393397-	(05) L1393397-17 08/26/21 22:15 • (MS) R3697314-4 08/26/21 22:33 • (MSD) R3697314-5 08/26/21 22:42	R3697314-4 0	3/26/21 22:33	3 • (MSD) R369	7314-5 08/26	5/21 22:42	5						
~	Spike Amount (dry)	: Original Resul (dry)	t MS Result (d	Original Result MS Result (dry) MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%		%	%		
Chloride	517	219	591	650	72.0	83.5	-	80.0-120	ନ୍ଦା	9.54	20		
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WG1729567 Wet Chemistry by Method 300.0			QI L1393397-	QUALITY 397-34,35,36,37,	QUALITY CONTROL SUMMARY 11393397-34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53	20L S1	SUMMARY 5,46,47,48,49,50,51,	く丫 0,51,52,53					Rece
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o MB R3697249-1 08/26/21 18:57 MB Result manalyte mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg										by OCD: ∼
		9.20	20.0										4/18/2
Sample	2 20133337-43 Original Sample (OS) • Duplicate (DUP)	licate (DU	(c										2022 7
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Sample	L1393397-51 Original Sample (OS) • Duplicate (DUP)	licate (DUF	(c										G
2:48 • (DUP	(OS) L1393397-51 08/26/21 22:48 • (DUP) R3697249-4 08/26/21 22:57	08/26/21 22:5	1										
Original Result (dry)	DUP Result (dry)	Dilution DUP RPD		DUP Qualifier	DUP RPD Limits								۹. «
mg/kg	mg/kg	%			%								
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Laboratory Control Sample (LCS)	CS)												
(LCS) R3697249-2 08/26/21 19:06													
Spike Amount		LCS Rec.	Rec. Limits	LCS Qualifier	fier								
mg/kg	mg/kg	%	%										
- 500	204	102	90.0-110			ĺ							
22:48 • (MS)	(05) L1393397-51 08/26/21 22:48 (MS) B3697249-5 08/26/21 23:07 (MSD) R3697249-6 08/26/21 23:16	12 JUINE (11	• (MSD) R369	97249-6 08	11333337-51 01911a1 3a111pte (03) • 141a11A 3ptre (143) • 141a11A 3ptre Dupinate (1432) 1031 11393397-51 08/26/21 22:48 • (143) B3697249-5 08/26/21 23:07 • (1450) B3697249-6 08/26/21 23:16								
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mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%		
5.51	0 23 30	5040	6420	274	525	ę	80.0-120	>I	≥ E	24.2	20		Page 154 oj
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WG1729	WG1729568			Ø	QUALITY 113933	ITY CONTROL SUMMARY 11393397-54,55,56,57,58,59,60,61,62	OL SI 7,58,59,60,	JMMAF 61,62	×≺				Rece
Method Ble	ank (MB)												ived &
o (MB) R3697315 <i>Bowl</i> Analyte	O(MB) R3697315-1 08/27/21 02:46 MB Result Malyte mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg									y OCD:
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0-6/1305479-0	2011392479-01 Original Sample (OS) • Duplicate (DUP)	dnO • (OS)	olicate (DI	(dr									8/ 2022
(OS) L1392479-	01 08/27/21 03:04 • (DUF	P) R3697315-3	08/27/21 03	Ę;									
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ZZ Analyte	mg/kg	mg/kg	0.	%		%							AM ג
Chloride	10.2	D	-	200	2	20							6 Qc
L1393397-6	L1393397-61 Original Sample (OS) • Duplicate (DUP)	(OS) • Dup	licate (DI	(dſ									G
(OS) L1393397-	(OS) L1393397-61 08/27/21 06:38 • (DUP) R3697315-6 08/27/21 06:47	P) R3697315-6	08/27/21 06	:47)
	Original Result (dry)	t DUP Result (dry)	Dilution DUP RPD	RPD	DUP Qualifier	DUP RPD Limits							"Al
Analyte	mg/kg	mg/kg	0.	%		%							
Chloride	680	635	1	6.83		20							°Sc
Laboratory	Laboratory Control Sample (LCS)	(CS)											
(LCS) R3697315	(LCS) R3697315-2 08/27/21 02:55												
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	fier							
Analyte	mg/kg	mg/kg	%	%									
Chloride	200	205	103	90.0-110									
L1393397-5	L1393397-58 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	e (OS) • Ma	trix Spike	(MS) • Mat	rix Spike	Duplicate (M:	SD)						
(OS) L1393397-	(OS) L1393397-58 08/27/21 05:36 • (MS) R3697315-4 08/27/21 05:45 • (MSD) R3697315-5 08/27/21 05:54) R3697315-4 (08/27/21 05: +	45 • (MSD) R36 MCD Docult	397315-5 08 [,]	'27/21 05:54							
	(dry)		MS Result (MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%		%	%		
Chloride	541	6.8	621	621	102	102	_	80.0-120		0.0406	20		Page 155
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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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

SDG: L1393397

Received by OCD: 4/18/2022 7:09:02 AMCCREDITATIONS & LOCATIONS

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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
daho	TN00003	Ohio–VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	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
42LA – 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.

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Litt Convention Convention </td <td>Report to: Sarah Johnson</td> <td></td> <td></td> <td>Email To: sarah.johns</td> <td>on@arcadis.co</td> <td>n;william.foo</td> <td>rd@arc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>unt Juliet, TN 37122 a this chain of custody gment and acceptance of</td> <td>ž</td>	Report to: Sarah Johnson			Email To: sarah.johns	on@arcadis.co	n;william.foo	rd@arc							unt Juliet, TN 37122 a this chain of custody gment and acceptance of	ž
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1004 N Big Spring Street Suite 121 Midland. TX 79701			Suite 121 Midland,	Suite 121 Midland, TX 79701 🦉							
Report to: Sarah Johnson			Email To: sarah.johnso	Email To: sarah.johnson@arcadis.com;william.foord@arc	n;william.foord	-	- Y				12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitute above/degament and acceptance provement/conditione fund that
Project Description: Candelario 24-1 Battery		City/State Collected:	Loving, NM	UM MD	Please Circle: PT M CT ET		CARGE CON				://info.pacelabs.com/h
Phone: 432-687-5400	Client Project # 30094129	#		Lab Project # CHEVARCNN	M-CANDEL24-1	Constant Series	Cal South	BRADE AND			SDG# 137537
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TMW-2-S-4-5-210818	0	SS	4-5	_	0855	1	×				12
TMW-2-5-9-10-210618	5	SS	9-10		0859	1	X				- 23
TMW-2-5-14-15-210818	C	SS	51-41		6903	1	×				-2,2
TMW-2-5-19-20-210818	5	SS	02-61		ofos	1	×				2-2
MW-2-5-24-25-210818	5	SS	52-h2		0406	1	×				176
TNW-2-5-29-30-210818	5	SS	29-30		0160	1	×				12-
818012-2-0-2-21-85	6	SS	0 5		5460	1	×				97-
58-13-5-4-5-210818	9	SS	4-5		opyle	1	×				22
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1004 N Big Spring Street Suite 121 Midland. TX 79701			Suite 121 Midland, TX 79701	TX 79701			and the state						
Report to: Sarah Johnson			Email To: sarah.johnso	Email To: sarah.johnson@arcadis.com	m;william.foord@arc	parc	CHINE LONG					12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via thy closinol for tostoby constitutes acknowledgment and acceptance pace Terms and Conditions found at:	e of the
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Phone: 432-687-5400	Client Project # 30094129		1	Lab Project # CHEVARCNM	M-CANDEL24-1	<u>Series areas</u>	NUCLEAR	5				SDG # 12157	1
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58-17-5-19-20-210821	5	SS	19-20	B/18/21	1059	1	×					C,	
50-18-5-0-5-210821	9	SS	05	8/19/21	2480	1	×					(C, r	
5B-18-5- 4-5-210821	C	SS	4-5	.	L180	1	×					2	
50-18-S-9-10-210821	C	SS	9-10		6480	1	×					2	
SB-18-5-14-15-210821	C	SS	14-15		082	1	×				-	2	
SB-18-5-19-20-21084	5	SS	19-20		6855	1	×					~r	
SB-19-5-05-210821	5	SS	5-0	-	0060	1	×					- 28	
58-19-5-4-5-210821	5	SS	4-5	-	0403	1	×					- 54	
58-19-5-9-10-210821	3	SS	01-6	TI	0405	1	×					21	T
F - Filter B - Bioassay	Remarks:								PH	TempOther	COC Sea COC Sign Bottles Correct	UH VHU	z z z z z
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Company Name/Address.			Billing Information:	ation:				Analvsi	Analvsis / Container / Preservative		Chain of Custody Pageof
ARCADIS US - New Mexico	co		Accounts Payabl	Accounts Payable	ŧ	Pres Chk					Para Analytical
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Report to: Sarah Johnson			Email To: sarah.johnsoi	@arcadis.com	Email To: sarah.johnson@arcadis.com;william.foord@arc	@arc				1206 Subr cons	12065 tebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Constitions found at:
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Phone: 432-687-5400	Client Project # 30094129			Lab Project # CHEVARCNN	Lab Project # CHEVARCNM-CANDEL24-1		CALIFIC PROPERTY.			SD Ta	sbG # 1 99 53 9 Table #
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58-19-5-14-15-210819	৬	SS	51-h1	12/14/21	9060	1	1000				121
SB-19-5-19-20-210819	-	SS	19-20	-	0110	1	×				52-
SB-20-5-0-:5-210819		SS	05		2160	1	×				54-
918015-2-4-2-02-B2		SS	5-4		0915	1	×				144
SB-20-5-9-10-210819		SS	9-19		0918	1	×				Sh-
5B - 20-5-14-15-210819		SS	51-NI		0420	1	×				1
5 G-20-5-19-20-210819		SS	19-20		4240	1	×				12-
58-26-5-0-3-210819		SS	٥5		8260	1	×				8/-
58-21-5-4-5. 210819		SS	4-5		0930	1	×				14
- 91-6-		SS	01-6	7	0933	1	×				C CO
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:							PH Flow	Temp	Sample Receipt COC Seal Present/Inta COC Signed/Accurate: Bottles arrive intact Correct bottles used:	Sample Receipt Checklist 1 Present/Intact: 10 Y ned/Accurate: the intact: bottles used:
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1004 N Big Spring Street Suite 121			Suite 121 Midland,								and many man	d by OC
Report to:			Email To: sarah.johns	Email To: sarah.johnson@arcadis.com	n;william.foord@arc	@arc	Tradition of				12065 tebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the	D: 4 /
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Candelario 24-1 battery Phone: 432-687-5400	Client Project #	#	•	Project #	M-CANDEL24-1		CONSTRACTOR				spe# 1593377	22 7:
							ANE NO.	sə			Table #	09:(
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P18015-21-4-15-220	U	SS	si-hf	8/9/21	0935	1	0.000				-21	
512-21-5-19-20 -210819	-	SS	19-20		0440	1	×				22-	
5B-23-5-0-5-210819		SS	05		0942	1	×				-53	
-S-4-S-		SS	4-5		0945	1	×				50-	
SB-22-5-9-10-210819		SS	01-6		1260	1	×				22	
58-27 - S- 14-15-210819	6	SS	SI-hi		6449	1	×				10-1	
SB-22-5-19-20-210819	6	SS	19-20		0952	1	×				27	
SB-23-5-0-5-210819		SS	05		ogsy	1	×				200	
SB-23-S-4-5-210819		SS	4-5		ogste	1	×				-21	
SB-23-5-9-10-210819	7 0	SS	01-10	7	0959	1	×					
* Matrix: \$5 - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:							Ľ	pH Temp Flow Other	Sample COC Seal Press COC Signed/Acc Bottles arriv Correct bottl	Samble Receipt Checklist Seal Present/Intact: APP Y N Signed/Accurate:	
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1004 N Big Spring Street Suite 121 Midland TY 79701		Suite 121 Midland,	Suite 121 Midland, TX 79701		e solo					d by OC
Report to: Sarah Johnson		Email To: sarah.john	son@arcadis.co	Email To: sarah.johnson@arcadis.com;william.foord@arc	l@arc				12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes adronweighent and acceptance page Tomax and Conditions found at:	of the
Project Description: Candelario 24-1 Battery	City/State Collected:	Louing, NM	×	Please Circle: PT CT ET		North March			https://inio.pacelabs.com/hubfs/pas-star terms.pdf	18/20. ż
Phone: 432-687-5400	Client Project # 30094129		Lab Project # CHEVARCN	Lab Project # CHEVARCNM-CANDEL24-1	1.1.1.1.1.1	ngoN-r			SDG # 15755	22 7:09
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Sample ID	Comp/Grab Matrix *	Depth	Date	Time	Cutrs	отно	7 501		Remarks Sample # (lab only)	(Aluo
SB-23-S-14-15-210819	G ss	51-H	8/19/19	2001	1	×			2	
58-23-5-19-20-210819	G ss	02-61	61/61/8	1006	1	X			62	
	SS				1	×				
	SS	4			1	×				
0% 8/14/6	SS	-			1	×		/		
1	SS				1	×	-			
	SS	-			1	×			/	
/	SS	1			1	X			4	
	SS				+	×				/
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F - Filter B - Bioassay	Remarks:						PH	TempOther	Coc Seal Present Checklist Coc Seal Present/Intact: NP Coc Signed/Accurate: Bottles arrive intact: Correct bottles used:	ZZZZZ
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Groundwater Laboratory Reports

Received by OCD: 4/18/2022 7:09:02 AM

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		2.
ARCADIS US - N	ew Mexico	3
Sample Delivery Group:	L1393509	4
Samples Received:	08/21/2021	5
Project Number:	30094129	
Description:	Candelario 24-1 Battery	6
Site:	CANDELARIO 24-1 SWD	7
Report To:	Sarah Johnson	,
	1004 N Big Spring Street	8
	Suite 121	
	Midland, TX 79701	9

Entire Report Reviewed By: Chu, faph J man

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 Analytical National is performed per guidance provided in 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

Released to Imaging: 3/21/2023 9:11:22 AM ARCADIS US - New Mexico

PROJECT: 30094129

SDG: L1393509

DATE/TIME: 08/31/21 21:13 PAGE: 1 of 14

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Sc: Sample Chain of Custody	14

SDG: L1393509 DATE/TIME: 08/31/21 21:13 PAGE: 2 of 14 Received by OCD: 4/18/2022 7:09:02 AM

SAMPLE SUMMARY

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²Tc

Ss

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TMW-1-W-210820 L1393509-01 GW			Collected by Justin Steinmann	Collected date/time 08/20/21 08:31	Received da 08/21/21 09:-	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1730231	1	08/26/21 17:54	08/26/21 19:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 00:28	08/28/21 00:28	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
TMW-1-WD-210820 L1393509-02 GW			Justin Steinmann	08/20/21 00:00	08/21/21 09:4	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729422	1	08/25/21 15:17	08/25/21 16:06	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 00:47	08/28/21 00:47	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
TMW-2-W-210820 L1393509-03 GW			Justin Steinmann	08/20/21 08:46	08/21/21 09:4	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1730966	1	08/27/21 22:39	08/27/21 23:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 01:05	08/28/21 01:05	ELN	Mt. Juliet, TN

SDG: L1393509 DATE/TIME: 08/31/21 21:13 PAGE: 3 of 14

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.

ue, forel S

Chris McCord Project Manager



SDG: L1393509 DATE/TIME:

PAGE: 4 of 14 Analyte

Chloride

SAMPLE RESULTS - 01 L1393509

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Gravimetric Analysis by Method 2540 C-2011

mg/l

1570

mg/l

7.58

mg/l

20.0

	Result	Qua	alifier R	DL	Dilution	Analysis	Batch	
Analyte	mg/l		m	ıg/l		date / time		2
Dissolved Solids	5500		10	00	1	08/26/2021 19:36	<u>WG1730231</u>	ĹΤ
Wet Chemistry by	/ Method 300.	.0						³ S
	Result	Qualifier	MDL	RDL		Dilution Analysis	<u>Batch</u>	

20

date / time

08/28/2021 00:28

WG1730859

Released to Imaging: 3/21/2023 9:11:22 AM ARCADIS US - New Mexico

SDG: L1393509

DATE/TIME: 08/31/21 21:13

SAMPLE RESULTS - 02

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1

Gravimetric Analysis by Method 2540 C-2011

1570

7.58

Chloride

	Re	sult	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg	j/l		mg/l		date / time		2
Dissolved Solids	47.	70		100	1	08/25/2021 16:06	WG1729422	² Tc
Wet Chemistry	by Method 3	300.0						³ Ss
	Result	Qualifier	MDL	RDI	-	Dilution Analysis	Batch	
Analyte	mg/l		mg/l	mg,	1	date / time		⁴ Cp
Oble data	4570		7 5 0	20	`	00/00/2024 00.4	7 WC17200E0	Cn

20

08/28/2021 00:47

20.0

WG1730859

SDG: L1393509 DATE/TIME: 08/31/21 21:13 SAMPLE RESULTS - 03

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Gravimetric Analysis by Method 2540 C-2011

1540

Chloride

7.58

20.0

	Resu	lt <u>Q</u>	ualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l			mg/l		date / time		2
Dissolved Solids	6060)		100	1	08/27/2021 23:32	<u>WG1730966</u>	¯Тс
Wet Chemistry b	y Method 30	0.0						³ Ss
	Result	Qualifier	MDL	RDL		Dilution Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		⁴ C r

20

08/28/2021 01:05

WG1730859

		QUALITY CONTROL	. SUMMARY		Receive
p Method Blank (MB)					ed by
(MB) R369/383-1 08/25/21 16:06 MB Result MB Cualifier Malyte mg/l	MB MDL MB RDL mg/l mg/l				
-	10.0				4/18/20
21333509-02 Original Sample (OS) • Duplicate (DUP)	uplicate (DUP)				922 7
116:06 • (DUP) R3697383-3	3 08/25/21 16:06				<u>59</u> 9
Original Result DUP Result	Dilution DUP RPD	DUP Qualifier DUP RPD Limits			:02 ن
mg/l mg/l	%	%			<u></u> A M እ
4770 4890	1 2.48	ى س			မ ရ ပ
L1393509-03 Original Sample (OS) • Duplicate (DUP)	Iplicate (DUP)				ے تا
(OS) L1393509-03 08/25/21 16:06 • (DUP) R3697383-4 08/25/21 16:06	4 08/25/2116:06				5
Original Result DUP Result	Dilution DUP RPD	DUP Qualifier DUP RPD Limits			"A A
mg/l mg/l	%	%			
3870 4690	1 19.2	<u>J</u> 3			Sc
Laboratory Control Sample (LCS)					
(LCS) R3697383-2 08/25/21 16:06					
Spike Amount LCS Result	LCS Rec. Rec. Limits	its LCS Qualifier			
mg/l mg/l	%				
8800 8230	93.5 77.4-123				
					Page 173 oj
ACCOUNT: ARCADIS US - New Mexico		PROJECT: 30094129	SDG : L1393509	DATE/TIME: P4 08/31/21 21:13 8 (PAGE: 8 of 14

Rece	ived (by OCI	<u>):</u> 4,	/ 18 // m	2022		9:0	2 <u>A</u>	M	Q	⁷ GI		AI		SC					
дRY																				
CONTROL SUMMARY							RPD	S					RPD s							
QUALITY C		MB RDL	10 O	2		23:32			% 0.822 5		DUP)	23:32	DUP RPD DUP Qualifier DUP RPD Limits	%	0.183 5			Rec. Limits LCS Qualifier	%	77.4-123
40 C-2011		MB Qualifier MB MDL	mg/l	0.02	(OS) • Dunlicate (COSI L1393509-03 08/27/21 23:32 • (DUP) R3698049-3 08/27/21 23:32			mg/l 6110 1		L1394402-02 Original Sample (OS) • Duplicate (DUP)	(OS) L1394402-02 08/27/21 23:32 • (DUP) R3698049-4 08/27/21 23:32	DUP Result Dilution	mg/l	729 1	CS)		Result		8490 96.5
WG1730966 Gravimetric Analysis by Method 2540 C-2011	או (MB)	I_08/27/21_23:32 MB Result	mg/l	D	3 Original Sample	3 08/27/21 23:32 • (DUF		Unginal kesuit DUP kesuit	mg/l		2 Original Sample	2 08/27/21 23:32 • (DUF	Original Result DUP Result	l/gm	728	Laboratory Control Sample (LCS)	(LCS) R3698049-2 08/27/21 23:32	Spike Amount	mg/l	8800
WG1730	Method Blan	OMB) R3698049-1 08/27/21 23:32	analyte	: 3/2	20-6092621 21/20	COS) L1393509-05	9:1.	1:2	Analyte Dissolved Solids	r	L1394402-02	(OS) L1394402-02		Analyte	Dissolved Solids	Laboratory C	(LCS) R3698049		Analyte	Dissolved Solids

WG1730859	59 V Method 300.0			Ō	QUALITY	CONTROL 11393509-01,02,03	CONTROL SUMMARY	JMMAR	≻					Reco
pased PMethod Blank (MB)	< (MB)													eived
0 (MB) R3698011-1 08/27/21 23:33 MB Resu Manalyte ma/l	8/27/21 23:33 MB Result ma/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l										
Chloride	0.398	ا ر-	0.379	1.00										: 4/1
20-2235-03 8/21/202	211393532-03 Original Sample (OS) • Duplicate (DUP)	(OS) • DL	plicate (DI	(dſ										8/2022 7
6(OS) L1393532-03	COS) L1393532-03 08/28/21 02:01 • (DUP) R3698011-3 08/28/21 02:19) R3698011-3	08/28/21 02:	19										599
:11:	Original Result DUP Result	DUP Result	Dilution DUP RPD	RPD	DUP Qualifier DI	DUP RPD Limits								: 02 10
ZZ Analyte	l/gm	mg/l	%		%									AM
Chloride	7.89	7.84	1 0.	0.568	20	0								6 Qc
L1393769-01 (L1393769-01 Original Sample (OS) • Duplicate (DUP)	(OS) • Dul	olicate (DL	(dr										7 12
(OS) L1393769-01	(OS) L1393769-01 08/28/21 06:18 • (DUP) R3698011-6 08/28/21 07:14) R3698011-6	08/28/21 07:1	4										ō
	Original Result DUP Result	DUP Result	Dilution DI		DUP Qualifier DI	DUP RPD Limits								AI AI
Analyte	l/gm	mg/l	%		%									
Chloride	55.7	55.6	1 0.	0.0661	20	0								°Sc
Laboratory Cc	Laboratory Control Sample (LCS)	CS)												
(LCS) R3698011-2 08/27/21 23:52	08/27/21 23:52													
	Spike Amount		LCS Rec.	Rec. Limits	LCS Qualifier									
Analyte	l/gm	mg/l	%	%										
Chloride	40.0	39.7	99.2	90.0-110										
L1393532-03	L1393532-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)	(OS) • Mé	itrix Spike	(MS) • Mat	rix Spike D	uplicate (I	MSD)							
(OS) L1393532-03	(OS) L1393532-03 08/28/21 02:01• (MS) R3698011-4 08/28/21 02:37• (MSD) R3698011-5 08/28/21 03:33	R3698011-4	08/28/21 02:3	7 • (MSD) R369)8011-5 08/28/ MCD	21 03:33								
Analyte	ppike Announ mg/l	Urigirial kesult MS Kesult mg/l mg/l	II mg/l	mg/l	MIS Ket.	MJDU KEC. %	Dilution	Kec. LIIIIIS %			кгu %	KPD LIIIIIS %		
Chloride	50.0	7.89	57.1	57.5	98.4	99.1	-	80.0-120			0.619	20		
L1393769-01 (L1393769-01 Original Sample (OS) • Matrix Spike (MS)	(OS) • Ma	trix Spike ((SM										
(OS) L1393769-01	(OS) L1393769-01 08/28/21 06:18 • (MS) R3698011-7 08/28/21 07:32	R3698011-7 (18/28/21 07:32											
Analvte	Spike Amount mn/l		Original Result MS Result	MS Rec. %	Dilution Re	Rec. Limits %	MS Qualifier							Pag
Chloride	50.0	55.7	104	96.8	1 80	80.0-120								e 1
	2	5	2)	-		1							76 oj
ļ	ACCOUNT:			PR	PROJECT:		N	SDG:		DATE/TIME:	ME:		PAGE:	f 181
A	ARCADIS US - New Mexico	0		30	30094129		L135	L1393509		08/31/21 21:13	21:13		11 of 14	

GLOSSARY OF TERMS

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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

ADDIEVIALIONS and	
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the resul 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

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.

SDG: L1393509

Received by OCD: 4/18/2022 7:09:02 AMCCREDITATIONS & LOCATIONS

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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
daho	TN00003	Ohio–VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
/laryland	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
42LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
PA–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.

SDG: L1393509 DATE/TIME: 08/31/21 21:13

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5400 300 Sterving Site		Suite 121 Midland, TX 79701	TX 79701								, I
strery 5400 300 1 Clier Site MacAM CAI		Email To: sarah.johnso	Email To: sarah.johnson@arcadis.com;william.foord@arc	william.foord	1000		Carles .			12055 telanon fad Mr. Submitting a sample v constitutes acknowled Pace Terms and Condi	12065 Lebanon Rd Mount Juliet, TN 0.37122 Submitting a simple via this chain of 0.37124 constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
5400 5400 5400 5400 5400 5400 5400 5400	City/State Collected:	MN BUIND	5	Please Circle: PT O CT E	e: EI	CALCULATE AND				titps://mo.pacendo.	120 2 No
): Site manu Cal ture):	#	R. S. A.	Lab Project # CHEVARCNM-CANDEL24-1	-CANDEL2						Spa# G033	4 1
)# IO 24-1 SW		P.O.#	N.						Acctnum: CHEVARCNM	:VARCNM
	MUS	Notified)	Quote #							Prelogin: P862625	2625
		Five Day 5 Day (Rad Only) 10 Day (Rad Only)	Date Results Needed	s Needed	of No.	жіре-зо				PM: 526 - Chris McCord PB: NS 8/5 Shipped Via: FedEX G	PM: 526 - Chris McCord PB: NS 8/2/21 Shipped Via: FedEX Ground
Sample ID Comp/Grab	Matrix *	Depth	Date	Time	Cutrs	STRUCTURES				Remarks	Sample # (lab only)
6	GW	1	12/20/21	0831	2						10-
00	GW	\backslash	8/20/21	1	2	×	X				-
TMU-2-W-210820 6		/	12/07/8	9180	n	X	×				-03
11021											
Co				6			1	\langle			
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				No.	1000 Control C					Sample Receipt (Checklist
* Matrix: Remarks: SS - Soil Alr - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater					37NG			PH Flow	TempOther	ent/Inta curate: e intact es used:	
DW - Drinking Water OT - OtherUPS FedEx	l via: cCourier		Tracking #	# Bu					K	VOA Zero Headspace:	
	Date:		Rece	vedtag (Signature)	() J		R	Trip Blank Received:	>	Preservation Correct/Checked: RAD Screen <0.5 mR/hr:	
Reingfuished by+fsignature)	F12-2	Lime:	S. Second	ved by: (Signature	ture)			A Game	AC Bottles Received	d: If preservation required by Login: Date/Time	gin: Date/Time
Relinquished by : (Signature)	Date:	Time:	Receiv	ved for lab by	: (Signature	4.	1	Date:	Time:	Hold:	Condition: NCF / DR

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

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

Released to Imaging: 3/21/2023 9:11:22 AM

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	99067
	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.	3/21/2023

Action 99067

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