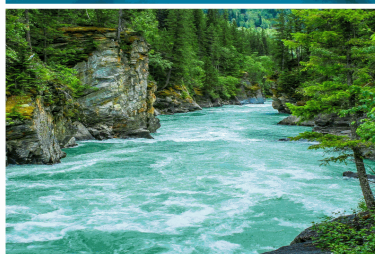


Report to:
David McKinney



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Morningstar Operating LLC.

Project Name: Candelario E + A1 #1

Work Order: E104013

Job Number: 20100-0001

Received: 4/7/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/13/21

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/13/21

David McKinney
811 S. Main Ave.
Aztec, NM 87410



Project Name: Candelario E + A1 #1
Workorder: E104013
Date Received: 4/7/2021 8:54:00AM

David McKinney,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/7/2021 8:54:00AM, under the Project Name: Candelario E + A1 #1.

The analytical test results summarized in this report with the Project Name: Candelario E + A1 #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Sample Summary

Morningstar Operating LLC.	Project Name:	Candelario E + A1 #1	Reported: 04/13/21 12:51
811 S. Main Ave.	Project Number:	20100-0001	
Aztec NM, 87410	Project Manager:	David McKinney	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Candelario E + A1 #1 API#3004506809	E104013-01A	Aqueous	04/06/21	04/07/21	Poly 500mL



Sample Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Candelario E + A1 #1 API#3004506809

E104013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS		Batch: 2115026	
Total Dissolved Solids	7220	25.0	1	04/08/21	04/12/21	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: JL		Batch: 2115020	
pH @25°C	7.05		1	04/07/21 10:48	04/07/21 12:13	H5
Wet Chemistry by SM2320B	mg/L	mg/L	Analyst: JL		Batch: 2116010	
Total Alkalinity (as CaCO ₃ at pH 4.5)	22.0	10.0	1	04/12/21	04/12/21	
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm	Analyst: RAS		Batch: 2115012	
Specific Conductance (@ 25 C)	8940	10.0	1	04/09/21	04/09/21	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analyst: AC		Batch: 2115022	
Calcium	192	2.00	2	04/07/21	04/07/21	
Iron	5.04	4.00	2	04/07/21	04/07/21	
Magnesium	9.16	2.00	2	04/07/21	04/07/21	
Potassium	6.03	5.00	5	04/07/21	04/08/21	
Sodium	2320	40.0	20	04/07/21	04/08/21	
Sodium Absorption Ratio	44.3		1	04/09/21	04/09/21	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS		Batch: 2115027	
Fluoride	ND	25.0	100	04/08/21	04/08/21	
Chloride	ND	200	100	04/08/21	04/08/21	
Nitrite-N	ND	25.0	100	04/08/21 11:47	04/08/21 14:07	
Nitrate-N	ND	25.0	100	04/08/21 11:47	04/08/21 14:07	
o-Phosphate-P	ND	25.0	100	04/08/21 11:47	04/08/21 14:07	
Sulfate	4960	200	100	04/08/21	04/08/21	



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Wet Chem/Gravimetric by SM2540C

Analyst: RAS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2115026-BLK1)

Prepared: 04/08/21 Analyzed: 04/12/21

Total Dissolved Solids	ND	10.0							
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LCS (2115026-BS1)

Prepared: 04/08/21 Analyzed: 04/12/21

Total Dissolved Solids	111	10.0	100	111	55-134				
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Duplicate (2115026-DUP1)

Source: E104011-01 Prepared: 04/08/21 Analyzed: 04/12/21

Total Dissolved Solids	3300	10.0		3310	0.227	5			
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QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Wet Chemistry by 9040C/4500H+B

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	

LCS (2115020-BS1) Prepared: 04/07/21 Analyzed: 04/07/21

pH	7.94	8.00	99.6	98.75-101.25
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Duplicate (2115020-DUP1) Source: E104011-01 Prepared: 04/07/21 Analyzed: 04/07/21

pH	11.0	11.0	0.00	20
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QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Wet Chemistry by SM2320B

Analyst: JL

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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LCS (2116010-BS1)

Prepared: 04/12/21 Analyzed: 04/12/21

Total Alkalinity (as CaCO3 at pH 4.5)	237	10.0	250		94.8	70-130			
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Duplicate (2116010-DUP1)

Source: E104011-01 Prepared: 04/12/21 Analyzed: 04/12/21

Total Alkalinity (as CaCO3 at pH 4.5)	99.0	10.0		107			7.77	20	
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QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Wet Chemistry by 9050A/2510B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	

Blank (2115012-BLK1)

Prepared: 04/09/21 Analyzed: 04/09/21

Specific Conductance (@ 25 C) ND 10.0

LCS (2115012-BS1)

Prepared: 04/09/21 Analyzed: 04/09/21

Specific Conductance (@ 25 C) 1430 10.0 1410 101 98-102

Duplicate (2115012-DUP1)

Source: E104006-01 Prepared: 04/09/21 Analyzed: 04/09/21

Specific Conductance (@ 25 C) 199 10.0 233 15.7 20



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Dissolved Metals by EPA 6010C

Analyst: AC

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2115022-BLK1)

Prepared: 04/07/21 Analyzed: 04/07/21

Calcium	ND	1.00
Iron	ND	2.00
Magnesium	ND	1.00
Potassium	ND	1.00
Sodium	ND	2.00

LCS (2115022-BS1)

Prepared: 04/07/21 Analyzed: 04/07/21

Calcium	50.6	1.00	50.0	101	80-120
Iron	99.5	2.00	100	99.5	80-120
Magnesium	49.3	1.00	50.0	98.6	80-120
Potassium	4.88	1.00	5.00	97.7	80-120
Sodium	18.7	2.00	20.0	93.3	80-120

LCS Dup (2115022-BSD1)

Prepared: 04/07/21 Analyzed: 04/07/21

Calcium	52.5	1.00	50.0	105	80-120	3.82	20
Iron	104	2.00	100	104	80-120	4.01	20
Magnesium	51.2	1.00	50.0	102	80-120	3.80	20
Potassium	5.07	1.00	5.00	101	80-120	3.82	20
Sodium	19.5	2.00	20.0	97.7	80-120	4.66	20



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Candelario E + A1 #1 Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/13/2021 12:51:50PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2115027-BLK1)

Prepared: 04/08/21 Analyzed: 04/08/21

Fluoride	ND	0.250
Chloride	ND	2.00
Nitrite-N	ND	0.250
Nitrate-N	ND	0.250
o-Phosphate-P	ND	0.250
Sulfate	ND	2.00

LCS (2115027-BS1)

Prepared: 04/08/21 Analyzed: 04/08/21

Fluoride	2.56	0.250	2.50	102	90-110
Chloride	24.6	2.00	25.0	98.4	90-110
Nitrite-N	2.48	0.250	2.50	99.3	90-110
Nitrate-N	2.35	0.250	2.50	94.1	90-110
o-Phosphate-P	12.6	0.250	12.5	100	90-110
Sulfate	23.6	2.00	25.0	94.4	90-110

LCS Dup (2115027-BSD1)

Prepared: 04/08/21 Analyzed: 04/08/21

Fluoride	2.61	0.250	2.50	104	90-110	2.21	20
Chloride	25.2	2.00	25.0	101	90-110	2.17	20
Nitrite-N	2.53	0.250	2.50	101	90-110	1.95	20
Nitrate-N	2.41	0.250	2.50	96.3	90-110	2.35	20
o-Phosphate-P	12.8	0.250	12.5	102	90-110	1.98	20
Sulfate	24.1	2.00	25.0	96.6	90-110	2.29	20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Morningstar Operating LLC.	Project Name:	Candelario E + A1 #1	
811 S. Main Ave.	Project Number:	20100-0001	Reported:
Aztec NM, 87410	Project Manager:	David McKinney	04/13/21 12:51

H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





Envirotech Analytical Laboratory

Printed: 4/7/2021 9:13:49AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Morningstar Operating LLC.	Date Received:	04/07/21 08:54	Work Order ID:	E104013
Phone:	(505) 419-6055	Date Logged In:	04/07/21 09:06	Logged In By:	Alexa Michaels
Email:		Due Date:	04/14/21 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: David McKinneyComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? No
8. If yes, was cooler received in good condition? NA
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C No

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 7.3°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:

Sample ID?	Yes
Date/Time Collected?	No
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Project Information

Client: Morningstar				Bill To				Lab Use Only				TAT				EPA Program			
Project: Candelario Et Al #1				Attention: Morningstar				Lab WO# E104613		Job Number 261000001		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: David McKinney				Address:															
Address:				City, State, Zip															
Phone: 505 860-0113				Phone:															
Email: Jdhampton@walsheng.net				Email: J Hampton @ ctfieldsvcs.com															
Report due by:				John Hampton															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0								
4:45 PM	4/6/21	A	1	Candelario Et Al #1 API#3004506809	1						X								
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		4/7/21	8:54 am	<i>[Signature]</i>		4.7.21	06:54	Received on ice: Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 7.4 T2 7.3 T3 7.3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 7.3											
Sample Matrix: S - Soil, sd - Solid, sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

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

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

CONDITIONS

Action 25360

CONDITIONS OF APPROVAL

Operator:	MORNINGSTAR OPERATING LLC	400 W 7th St	Fort Worth, TX76102	OGRID:	330132	Action Number:	25360	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								