

Report to:
David McKinney



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



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Analytical Report

Morningstar Operating LLC.

Project Name: Navajo Indian #6E

Work Order: E104036

Job Number: 20100-0001

Received: 4/9/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/16/21

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: 4/16/21

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



Project Name: Navajo Indian #6E
Workorder: E104036
Date Received: 4/9/2021 9:27:00AM

David McKinney,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/9/2021 9:27:00AM, under the Project Name: Navajo Indian #6E.

The analytical test results summarized in this report with the Project Name: Navajo Indian #6E 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,

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Sample Summary

Morningstar Operating LLC.	Project Name:	Navajo Indian #6E	Reported:
811 S. Main Ave.	Project Number:	20100-0001	
Aztec NM, 87410	Project Manager:	David McKinney	04/16/21 10:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Navajo Indian #6E API # 3004525044	E104036-01A	Aqueous	04/08/21	04/09/21	Poly 500mL



Sample Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Navajo Indian #6E Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/16/2021 10:23:09AM
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Navajo Indian #6E API # 3004525044

E104036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: RAS		Batch: 2115026	
Total Dissolved Solids	1430	10.0	1	04/13/21	04/15/21	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: RAS		Batch: 2116002	
pH @25°C	11.8		1	04/12/21 09:51	04/12/21 13:20	H5
Wet Chemistry by SM2320B	mg/L	mg/L	Analyst: JL		Batch: 2116010	
Total Alkalinity (as CaCO ₃ at pH 4.5)	926	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)	3120	10.0	1	04/09/21	04/09/21	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analyst: AC		Batch: 2116007	
Calcium	ND	10.0	10	04/12/21	04/13/21	
Iron	ND	20.0	10	04/12/21	04/13/21	
Magnesium	ND	10.0	10	04/12/21	04/13/21	
Potassium	ND	10.0	10	04/12/21	04/13/21	
Sodium	571	20.0	10	04/12/21	04/13/21	
Sodium Absorption Ratio	0.00		1	04/14/21	04/14/21	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: RAS		Batch: 2115036	
Fluoride	ND	2.50	10	04/09/21	04/09/21	
Chloride	ND	20.0	10	04/09/21	04/09/21	
Nitrite-N	ND	2.50	10	04/09/21 15:08	04/09/21 17:23	
Nitrate-N	ND	2.50	10	04/09/21 15:08	04/09/21 17:23	
o-Phosphate-P	ND	2.50	10	04/09/21 15:08	04/09/21 17:23	
Sulfate	113	20.0	10	04/09/21	04/09/21	



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Navajo Indian #6E Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/16/2021 10:23:09AM
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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: Navajo Indian #6E Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/16/2021 10:23:09AM
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Wet Chemistry by 9040C/4500H+B

Analyst: RAS

Analyte	Result pH Units	Reporting Limit pH Units	Spike Level pH Units	Source Result pH Units	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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LCS (2116002-BS1) Prepared: 04/12/21 Analyzed: 04/12/21

pH	7.96		8.00		99.8	98.75-101.25			
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Duplicate (2116002-DUP1) Source: E104020-01 Prepared: 04/12/21 Analyzed: 04/12/21

pH	8.64			8.57		0.813	20		
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QC Summary Data

Morningstar Operating LLC.	Project Name:	Navajo Indian #6E	Reported:
811 S. Main Ave.	Project Number:	20100-0001	
Aztec NM, 87410	Project Manager:	David McKinney	4/16/2021 10:23:09AM

Wet Chemistry by SM2320B

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

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.	Project Name:	Navajo Indian #6E	Reported:
811 S. Main Ave.	Project Number:	20100-0001	
Aztec NM, 87410	Project Manager:	David McKinney	4/16/2021 10:23:09AM

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: Navajo Indian #6E Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/16/2021 10:23:09AM
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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 (2116007-BLK1)

Prepared: 04/12/21 Analyzed: 04/13/21

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

LCS (2116007-BS1)

Prepared: 04/12/21 Analyzed: 04/13/21

Calcium	49.0	1.00	50.0	97.9	80-120
Iron	96.5	2.00	100	96.5	80-120
Magnesium	49.1	1.00	50.0	98.3	80-120
Potassium	4.69	1.00	5.00	93.7	80-120
Sodium	18.6	2.00	20.0	93.0	80-120

Matrix Spike (2116007-MS1)

Source: E104037-01 Prepared: 04/12/21 Analyzed: 04/13/21

Calcium	51.6	1.00	50.0	1.03	101	75-125
Iron	101	2.00	100	ND	101	75-125
Magnesium	50.4	1.00	50.0	ND	101	75-125
Potassium	5.75	1.00	5.00	ND	115	75-125
Sodium	22.4	2.00	20.0	3.29	95.7	75-125

Matrix Spike Dup (2116007-MSD1)

Source: E104037-01 Prepared: 04/12/21 Analyzed: 04/13/21

Calcium	52.0	1.00	50.0	1.03	102	75-125	0.908	20
Iron	102	2.00	100	ND	102	75-125	0.592	20
Magnesium	50.8	1.00	50.0	ND	102	75-125	0.692	20
Potassium	5.80	1.00	5.00	ND	116	75-125	0.727	20
Sodium	22.7	2.00	20.0	3.29	97.2	75-125	1.33	20



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Navajo Indian #6E Project Number: 20100-0001 Project Manager: David McKinney	Reported: 4/16/2021 10:23:09AM
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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 (2115036-BLK1)

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

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 (2115036-BS1)

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

Fluoride	2.49	0.250	2.50	99.8	90-110
Chloride	24.5	2.00	25.0	97.9	90-110
Nitrite-N	2.45	0.250	2.50	98.2	90-110
Nitrate-N	2.49	0.250	2.50	99.6	90-110
o-Phosphate-P	12.4	0.250	12.5	99.4	90-110
Sulfate	24.2	2.00	25.0	96.7	90-110

LCS Dup (2115036-BSD1)

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

Fluoride	2.50	0.250	2.50	100	90-110	0.280	20
Chloride	24.6	2.00	25.0	98.5	90-110	0.652	20
Nitrite-N	2.48	0.250	2.50	99.3	90-110	1.17	20
Nitrate-N	2.49	0.250	2.50	99.7	90-110	0.0803	20
o-Phosphate-P	12.5	0.250	12.5	100	90-110	0.761	20
Sulfate	24.4	2.00	25.0	97.4	90-110	0.729	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:	Navajo Indian #6E	
811 S. Main Ave.	Project Number:	20100-0001	Reported:
Aztec NM, 87410	Project Manager:	David McKinney	04/16/21 10:23

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.



Chain of Custody

[illegible]

Envirotech Analytical Laboratory

Printed: 4/9/2021 9:38:12AM

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:	04/09/21 09:27	Work Order ID:	E104036
Phone:	(505) 419-6055	Date Logged In:	04/09/21 09:31	Logged In By:	Alexa Michaels
Email:	david@walsheng.net	Due Date:	04/16/21 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 McKinney**Comments/Resolution****Sample 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: 9.5°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?	Yes
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.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
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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 25020

CONDITIONS OF APPROVAL

Operator:	MORNINGSTAR OPERATING LLC	400 W 7th St	Fort Worth, TX76102	OGRID:	330132	Action Number:	25020	Action Type:	GAS ANALYSIS
OCD Reviewer	Condition								
mkuehling	None								