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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

## IKAV Energy Inc.

Project Name:

Bradenhead

Work Order: E410136

Job Number: 20095-0001

Received: 10/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/23/24

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: 10/23/24

Jay Rector 1199 Main Ave. Suite 242 Durango, CO 81301

Project Name: Bradenhead Workorder: E410136 Date Received: 10/14/2024 12:17:00PM

Jay Rector,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2024 12:17:00PM, under the Project Name: Bradenhead.

The analytical test results summarized in this report with the Project Name: Bradenhead 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 reguarding 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 Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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		Sample Sum	mary		
IKAV Energy Inc.		Project Name:	Bradenhead		Reported:
1199 Main Ave. Suite 242		Project Number:	20095-0001		Reporteu:
Durango CO, 81301		Project Manager:	Jay Rector		10/23/24 10:05
			~		~ · · ·
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Tapp Com #5	E410136-01A	Aqueous	10/14/24	10/14/24	Poly 500mL

C



		pic Dat				
IKAV Energy Inc.	Project Name:	Bradenl	nead			
1199 Main Ave. Suite 242	Project Number:	20095-0	0001			Reported:
Durango CO, 81301	Project Manager:	Jay Rec	tor			10/23/2024 10:05:07AM
	Тарр	o Com #5				
	E41	0136-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analys	st: RAS		Batch: 2442161
Total Dissolved Solids	4460	25.0	1	10/18/24	10/23/24	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analys	st: WF		Batch: 2442157
рН @25°С	9.98		1	10/18/24 10:15	10/18/24 14:49	Н5
Wet Chemistry by SM2320B	mg/L	mg/L	Analys	st: KH		Batch: 2442030
Total Alkalinity (as CaCO3 at pH 4.5)	110	10.0	1	10/14/24	10/15/24	
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm	Analys	st: BA		Batch: 2442059
Specific Conductance (@ 25 C)	6310	10.0	1	10/15/24	10/15/24	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analys	st: LS		Batch: 2442110
Calcium	9.87	5.00	5	10/16/24	10/16/24	
Iron	ND	10.0	5	10/16/24	10/16/24	
Magnesium	ND	5.00	5	10/16/24	10/16/24	
Potassium	8.51	5.00	5	10/16/24	10/16/24	
Sodium	1730	50.0	30	10/16/24	10/18/24	
Sodium Absorption Ratio (CALC)	152		1	10/23/24	10/23/24	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analys	st: IY		Batch: 2442029
Fluoride	ND	5.00	20	10/14/24	10/14/24	
Chloride	ND	40.0	20	10/14/24	10/14/24	
Nitrite-N	ND	5.00	20	10/14/24 13:03	10/14/24 16:02	
Nitrate-N	ND	5.00	20	10/14/24 13:03	10/14/24 16:02	
p-Phosphate-P	ND	5.00	20	10/14/24 13:03	10/14/24 16:02	
Sulfate	2940	40.0	20	10/14/24	10/14/24	

## Sample Data



## QC Summary Data

		$\mathbf{x} \in \mathbf{v}$		ary Dav					
IKAV Energy Inc. 1199 Main Ave. Suite 242 Durango CO, 81301		Project Name: Project Number: Project Manager	2	bradenhead 0095-0001 ay Rector					<b>Reported:</b> 10/23/2024 10:05:07AM
		Wet Chem/C	Gravimet	tric by SM2	2540C				Analyst: RAS
Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	
Blank (2442161-BLK1)							Prepared: 1	10/18/24	Analyzed: 10/23/24
Total Dissolved Solids	ND	10.0							
LCS (2442161-BS1)							Prepared: 1	0/18/24	Analyzed: 10/23/24
Total Dissolved Solids	96.0	10.0	100		96.0	55-134			
Duplicate (2442161-DUP1)				Source:	E410155-	02	Prepared: 1	0/18/24	Analyzed: 10/23/24
Total Dissolved Solids	4100	25.0		4060			0.797	5	



## **QC Summary Data**

		¥		v					
IKAV Energy Inc.		Project Name:	Bi	radenhead					Reported:
1199 Main Ave. Suite 242		Project Number		095-0001					
Durango CO, 81301		Project Manage	r: Ja	y Rector				1	10/23/2024 10:05:07AM
		Wet Chem	istry by 9	040C/4500	H+B				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	Notes
LCS (2442157-BS1)							Prepared: 1	0/18/24 A	nalyzed: 10/18/24
Н	8.01		8.00		100	98.75-101.2	5		
Duplicate (2442157-DUP1)				Source:	E410135	5-01	Prepared: 1	0/18/24 A	nalyzed: 10/18/24
эн	0.407			0.421			3.38	20	



## **QC Summary Data**

		<u> </u>		v					
IKAV Energy Inc.		Project Name:	B	radenhead					Reported:
1199 Main Ave. Suite 242		Project Number:		0095-0001					
Durango CO, 81301		Project Manager	: Ja	y Rector				1	0/23/2024 10:05:07AM
		Wet Ch	emistry b	y SM2320	В				Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	Notes
LCS (2442030-BS1)							Prepared: 1	0/14/24 Ar	nalyzed: 10/15/24
Fotal Alkalinity (as CaCO3 at pH 4.5)	252	10.0	250		101	70-130			
Duplicate (2442030-DUP1)				Source:	E410134-	01	Prepared: 1	0/14/24 Ar	nalyzed: 10/15/24
Fotal Alkalinity (as CaCO3 at pH 4.5)	232	10.0		232			0.00	20	



## QC Summary Data

IKAV Energy Inc. 1199 Main Ave. Suite 242		Project Name: Project Number:	20	radenhead 0095-0001					<b>Reported:</b>
Durango CO, 81301		Project Manager:	Ja	y Rector					10/23/2024 10:05:07AM
		Wet Chem	istry by	9050A/251	0B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	Notes
Blank (2442059-BLK1)							Prepared: 1	0/15/24	Analyzed: 10/15/24
Specific Conductance (@ 25 C)	ND	10.0							
LCS (2442059-BS1)							Prepared: 1	0/15/24	Analyzed: 10/15/24
Specific Conductance (@ 25 C)	1420	10.0	1410		101	98-102			
Duplicate (2442059-DUP1)				Source:	E410134-(	01	Prepared: 1	0/15/24	Analyzed: 10/15/24
Specific Conductance (@ 25 C)	6850	10.0		6700			2.18	20	



## QC Summary Data

		QC SI	umma	iry Dat	a				
IKAV Energy Inc. 1199 Main Ave. Suite 242 Durango CO, 81301		Project Name: Project Number: Project Manager:	20	radenhead 0095-0001 y Rector					<b>Reported:</b> 10/23/2024 10:05:07AM
		Dissolved	Metals b	y EPA 601	0C				Analyst: LS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	Notes
Blank (2442110-BLK1)							Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Calcium	ND	1.00							
Iron	ND	2.00							
Magnesium	ND	1.00							
Potassium	ND	1.00							
Sodium	ND	2.00							
LCS (2442110-BS1)							Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Calcium	53.8	1.00	50.0		108	80-120			
Iron	110	2.00	100		110	80-120			
Magnesium	53.8	1.00	50.0		108	80-120			
Potassium	5.75	1.00	5.00		115	80-120			
Sodium	20.5	2.00	20.0		102	80-120			
Matrix Spike (2442110-MS1)				Source:	E410155-	01	Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Calcium	114	5.00	50.0	48.6	131	75-125			M2
iron	122	10.0	100	ND	122	75-125			
Magnesium	56.6	5.00	50.0	ND	113	75-125			
Potassium	16.5	5.00	5.00	6.55	198	75-125			M2
Sodium	1530	50.0	20.0	1450	416	75-125			M4
Matrix Spike Dup (2442110-MSD1)				Source:	E410155-	01	Prepared: 1	0/16/24 A	nalyzed: 10/16/24
Calcium	110	5.00	50.0	48.6	122	75-125	3.93	20	
Iron	119	10.0	100	ND	119	75-125	3.07	20	
Magnesium	55.1	5.00	50.0	ND	110	75-125	2.60	20	
Potassium	16.7	5.00	5.00	6.55	202	75-125	1.24	20	M2
Sodium	1510	50.0	20.0	1450	320	75-125	1.27	20	M4

## QC Summary Data

		QC SI		ry Data	a				
IKAV Energy Inc. 1199 Main Ave. Suite 242		Project Name: Project Number:		adenhead 095-0001					Reported:
Durango CO, 81301		Project Manager:	Ja	y Rector				10	/23/2024 10:05:07AN
		Anions b	oy EPA 3	00.0/9056A	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	Notes
Blank (2442029-BLK1)							Prepared: 10	0/14/24 Ana	alyzed: 10/14/24
Fluoride	ND	0.250							
Chloride	ND	2.00							
Nitrite-N	ND	0.250							
Nitrate-N	ND	0.250							
p-Phosphate-P	ND	0.250							
Sulfate	ND	2.00							
LCS (2442029-BS1)							Prepared: 10	0/14/24 Ana	alyzed: 10/14/24
Fluoride	2.64	0.250	2.50		106	90-110			
Chloride	25.2	2.00	25.0		101	90-110			
Nitrite-N	2.58	0.250	2.50		103	90-110			
Nitrate-N	2.58	0.250	2.50		103	90-110			
p-Phosphate-P	13.0	0.250	12.5		104	90-110			
Sulfate	24.4	2.00	25.0		97.6	90-110			
LCS Dup (2442029-BSD1)							Prepared: 10	0/14/24 Ana	alyzed: 10/14/24
Fluoride	2.62	0.250	2.50		105	90-110	0.981	20	
Chloride	24.9	2.00	25.0		99.6	90-110	1.01	20	
Nitrite-N	2.52	0.250	2.50		101	90-110	2.09	20	
Nitrate-N	2.55	0.250	2.50		102	90-110	1.08	20	
o-Phosphate-P	12.9	0.250	12.5		103	90-110	0.652	20	
Sulfate	24.2	2.00	25.0		96.7	90-110	0.921	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.



Г				
L	IKAV Energy Inc.	Project Name:	Bradenhead	
	1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
	Durango CO, 81301	Project Manager:	Jay Rector	10/23/24 10:05

- H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample analysis was performed as quickly as possible.
- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The M4 associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- Not Reported NR
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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



Page 12 of 15

#### **Chain of Custody**

	Clier	nt Inform	ation			Invoice Information					Lal	b Use	Onl	ly				TA	T	State
lient: T	KAVIS	Simco	2		Co	ompany:		1	ab	WO#		2 Le	de N	Numb	er	~	1D	2D	3D St	MM CO UT TX
roject Na	me: Br	aden	head		<u>Ac</u>	ldress:			E4	101	31	9 x	0e	85	ŝ	100			X	
roject Ma	anager:	Tay F	ecto	51	Ci	ty, State, Zip:					1011.00									
ddress:		· / ·	- 10		Pł	none:			[			A	Ana	lysis a	nd	Meth	nod			EPA Program
ity, State	, Zip:				Em	ail:														SDWA CWA RCRA
none:						cellaneous:														
nail:					-	centreous.				S	2									Compliance Y or N
			1 1 1 1 1 1	100 100 100 100 100 100 100 100 100 100			1.00			801	801			0	-		s	Pkg		PWSID #
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Time				Jan	ne mormati	011	h 1	1 1 21	h	ORC	DRC	3 Aq	by 8	ide	ÿ	1005	8 N	/An		Remarks
Time ampled	Date Sampled	Matrix	No. of Container	s		Sample ID	Field	Lat Num		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Cation/Ar		Kennarks
1.50	10-14-24	A	)	Ta	p Com -	#5		1										~		
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Received by OCD: 12/16/2024 10:26:34 AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Client:	IKAV Energy Inc. D	ate Received:	10/14/24 1	2:17	Work Order ID:	E410136
Phone:	505-793-2834 D	ate Logged In:	10/14/24 1	2:34	Logged In By:	Caitlin Mars
Email:		Due Date:		17:00 (5 day TAT)		
Chain o	f 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	Carrier: Heather Al	exander	
4. Was t	he COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th		Yes		Common	ts/Resolution
~ .	i.e, 15 minute hold time, are not included in this disucssion.				Commen	is/Resolution
	Turn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		No			
-	, was cooler received in good condition?		NA			
	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re-		No			
		eceived w/115				
13. If no	minutes of sampling		'.1° <u>C</u>			
	minutes of sampling visible ice, record the temperature. Actual sample te		'.1°C			
<u>Sample</u>	minutes of sampling visible ice, record the temperature. Actual sample te Container		<u>′.1°C</u> No			
Sample 14. Are	minutes of sampling visible ice, record the temperature. Actual sample te					
<u>Sample</u> 14. Are 15. Are	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present?		No			
Sample 14. Are 15. Are 16. Is th	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials?		No NA			
Sample 14. Are 15. Are 16. Is th 17. Was	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)?		No NA NA			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are	minutes of sampling visible ice, record the temperature. Actual sample te Container aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?	mperature: <u>17</u>	No NA NA NA			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container	mperature: <u>17</u>	No NA NA Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container	mperature: <u>17</u> s collected?	No NA NA Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La 20. Were	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID?	mperature: <u>17</u> s collected?	No NA NA Yes Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La 20. Were	minutes of sampling visible ice, record the temperature. Actual sample te <u>Container</u> aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected?	mperature: <u>17</u> s collected?	No NA NA Yes Yes Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La 20. Were	minutes of sampling visible ice, record the temperature. Actual sample te Container aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name?	mperature: <u>17</u> s collected?	No NA NA Yes Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La 20. Were Sample	minutes of sampling visible ice, record the temperature. Actual sample te Container aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation	mperature: <u>17</u> s collected? nation:	No NA NA Yes Yes Yes Yes			
Sample 14. Are 15. Are 16. Is th 17. Was 18. Are 19. Is the Field La 20. Were Sample 21. Does	minutes of sampling visible ice, record the temperature. Actual sample te Container aqueous VOC samples present? VOC samples collected in VOA Vials? e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample container thel e field sample labels filled out with the minimum inform Sample ID? Date/Time Collected? Collectors name? Preservation s the COC or field labels indicate the samples were pres	mperature: <u>17</u> s collected? nation:	No NA NA Yes Yes Yes Yes Yes			
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Signature of client authorizing changes to the COC or sample disposition.



Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:	
SIMCOE LLC	329736	
1199 Main Ave., Suite 101	Action Number:	
Durango, CO 81301	412160	
	Action Type:	
	[UF-GA] Gas Analysis (GAS ANALYSIS)	
CONDITIONS		

Created By	Condition	Condition Date
mkuehling	TDS 4460 - produced water on bradenhead	12/16/2024
mkuehling	for record only	12/16/2024

CONDITIONS

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Action 412160