

This report includes results from several different wells including the John Charles 6C, even though the title page is labeled as John Charles 7A. John Charles 6C results can be found on page 7, for document integrity it was not separated.



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Danny Burns  
Ensolum LLC  
776 E 2nd Avenue  
Durango, Colorado 81301  
Generated 10/4/2024 2:49:14 PM

## JOB DESCRIPTION

Jhon Charles #7A

## JOB NUMBER

885-12395-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



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Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Laboratory Job ID: 885-12395-1

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## Definitions/Glossary

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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## Case Narrative

Client: Ensolum LLC  
Project: Jhon Charles #7A

Job ID: 885-12395-1

**Job ID: 885-12395-1**

**Eurofins Albuquerque**

### Job Narrative 885-12395-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 9/24/2024 7:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

#### GC VOA

Method 8021B: Selected samples analyzed with analytes over calibration range (Benzene and Toluene), insufficient samples to reanalyze:

Jhon Charles #7A (885-12395-1) and Jhon Charles #6A (885-12395-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Client Sample ID: Jhon Charles #7A  
Date Collected: 09/20/24 09:26  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-1  
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.5	ug/L			09/28/24 12:58	1
Benzene	1300	E	1.0	ug/L			09/28/24 12:58	1
Ethylbenzene	1.2		1.0	ug/L			09/28/24 12:58	1
Toluene	3600	E	1.0	ug/L			09/28/24 12:58	1
Xylenes, Total	5.6		2.0	ug/L			09/28/24 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		43 - 158				09/28/24 12:58	1

Client Sample Results

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Client Sample ID: Jhon Charles #6C  
Date Collected: 09/20/24 09:14  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-2  
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		250	ug/L			09/30/24 18:01	100
Benzene	1900		100	ug/L			09/30/24 18:01	100
Ethylbenzene	350		100	ug/L			09/30/24 18:01	100
Toluene	5300		100	ug/L			09/30/24 18:01	100
Xylenes, Total	3200		200	ug/L			09/30/24 18:01	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		43 - 158				09/30/24 18:01	100



Client Sample Results

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Client Sample ID: Jhon Charles #6A  
Date Collected: 09/20/24 09:05  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-3  
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.5	ug/L			09/28/24 13:41	1
Benzene	5100	E	1.0	ug/L			09/28/24 13:41	1
Ethylbenzene	27		1.0	ug/L			09/28/24 13:41	1
Toluene	5100	E	1.0	ug/L			09/28/24 13:41	1
Xylenes, Total	73		2.0	ug/L			09/28/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		43 - 158				09/28/24 13:41	1

Client Sample Results

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Client Sample ID: Jhon Charles #6  
Date Collected: 09/20/24 08:53  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-4  
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		25	ug/L			09/28/24 14:25	10
Benzene	55		10	ug/L			09/28/24 14:25	10
Ethylbenzene	36		10	ug/L			09/28/24 14:25	10
Toluene	110		10	ug/L			09/28/24 14:25	10
Xylenes, Total	130		20	ug/L			09/28/24 14:25	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		43 - 158				09/28/24 14:25	10

## QC Sample Results

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13301/3

Matrix: Water

Analysis Batch: 13301

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.5	ug/L			09/28/24 08:36	1
Benzene	ND		1.0	ug/L			09/28/24 08:36	1
Ethylbenzene	ND		1.0	ug/L			09/28/24 08:36	1
Toluene	ND		1.0	ug/L			09/28/24 08:36	1
Xylenes, Total	ND		2.0	ug/L			09/28/24 08:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		43 - 158		09/28/24 08:36	1

Lab Sample ID: LCS 885-13301/2

Matrix: Water

Analysis Batch: 13301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl-tert-butyl Ether (MTBE)	20.0	18.7		ug/L		94	70 - 130
Benzene	20.0	19.2		ug/L		96	70 - 130
Ethylbenzene	20.0	19.3		ug/L		96	70 - 130
Toluene	20.0	19.5		ug/L		97	70 - 130
m,p-Xylene	40.0	38.0		ug/L		95	70 - 130
o-Xylene	20.0	18.7		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	20.0	17.4		ug/L		87	70 - 130
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		89	70 - 130
Xylenes, Total	60.0	56.6		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		43 - 158

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QC Association Summary

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

GC VOA

Analysis Batch: 13301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12395-1	Jhon Charles #7A	Total/NA	Water	8021B	
885-12395-3	Jhon Charles #6A	Total/NA	Water	8021B	
885-12395-4	Jhon Charles #6	Total/NA	Water	8021B	
MB 885-13301/3	Method Blank	Total/NA	Water	8021B	
LCS 885-13301/2	Lab Control Sample	Total/NA	Water	8021B	

Analysis Batch: 13372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12395-2	Jhon Charles #6C	Total/NA	Water	8021B	

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Lab Chronicle

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Client Sample ID: Jhon Charles #7A  
Date Collected: 09/20/24 09:26  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-1  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	13301	AT	EET ALB	09/28/24 12:58

Client Sample ID: Jhon Charles #6C  
Date Collected: 09/20/24 09:14  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-2  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		100	13372	AT	EET ALB	09/30/24 18:01

Client Sample ID: Jhon Charles #6A  
Date Collected: 09/20/24 09:05  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-3  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		1	13301	AT	EET ALB	09/28/24 13:41

Client Sample ID: Jhon Charles #6  
Date Collected: 09/20/24 08:53  
Date Received: 09/24/24 07:32

Lab Sample ID: 885-12395-4  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8021B		10	13301	AT	EET ALB	09/28/24 14:25

Laboratory References:  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC  
Project/Site: Jhon Charles #7A

Job ID: 885-12395-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8021B		Water	Benzene
8021B		Water	Ethylbenzene
8021B		Water	Methyl-tert-butyl Ether (MTBE)
8021B		Water	Toluene
8021B		Water	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25

## Chain-of-Custody Record

Client: Enduring ResourcesMailing Address: Montoya@enduringresources.comPhone #: 505 402-1140 or 419-7039

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

John Charles #7A

Project #:

Project Manager:

Sampler: Danny MontoyaOn Ice: ☒ Yes ☐ No major# of Coolers: 1Cooler Temp (including CF): 4.0-4.5 (°C)

Date Time Matrix Sample Name

9-20-24 9:20A H<sub>2</sub>O John Charles #7A

9-20 9:44A ↓ John Charles 6c

9-20 9:05A ↓ John Charles 6A

9-20 8:53A ↓ John Charles 6

Container Type and #

100ml 100A

100ml 100A

100ml 100A

100ml 100A

Preservative Type

HCl

HCl

HCl

HCl

HEAL No.

1

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## Analysis Request

BTEx / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Relinquished by: Danny Montoya Date: 9/23/24 Time: 8:18Received by: John Charles Date: 9/23/24 Time: 7:32Relinquished by: John Charles Date: 9/23/24 Time: 7:32Received by: John Charles Date: 9/23/24 Time: 7:32

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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## Login Sample Receipt Checklist

Client: Ensolum LLC

Job Number: 885-12395-1

Login Number: 12395

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	



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

Action 408983

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 408983
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only - have requested a general chemistry analysis	12/12/2024