



received 09/29/2013
Complaint 200387998
and
Project 2130

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Peter Gintautas
Colorado Oil & Gas Conservation
213 Corundum Road
Trinidad, CO 81082

Report Summary

Tuesday September 17, 2013

Report Number: L657097

Samples Received: 09/12/13

Client Project: 2130

Description: TBAL

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Peter Gintautas
Colorado Oil & Gas Conservation
213 Corundum Road
Trinidad, CO 81082

September 17, 2013

Date Received : September 12, 2013
Description : TBAL

Sample ID : 752831 SZWAJA

Collected By : Gintautas
Collection Date : 09/11/13 09:20

ESC Sample # : L657097-01

Site ID :

Project # : 2130

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/15/13	1
Acrolein	BDL	0.050	mg/l	8260B	09/15/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/15/13	1
Benzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromoform	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/15/13	1
Carbon disulfide	BDL	0.0010	mg/l	8260B	09/15/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/15/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/15/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/15/13	1
Chloroform	BDL	0.0050	mg/l	8260B	09/15/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/15/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/15/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/15/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/15/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/15/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
2-Hexanone	BDL	0.010	mg/l	8260B	09/15/13	1
Iodomethane	BDL	0.010	mg/l	8260B	09/15/13	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/15/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/15/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/15/13	1
Pentachloroethane	BDL	0.050	mg/l	8260B	09/15/13	1
Styrene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
Toluene	BDL	0.0050	mg/l	8260B	09/15/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

Peter Gintautas
Colorado Oil & Gas Conservation
213 Corundum Road
Trinidad, CO 81082

September 17, 2013

Date Received : September 12, 2013
Description : TBAL
Sample ID : 752831 SZWAJA
Collected By : Gintautas
Collection Date : 09/11/13 09:20

ESC Sample # : L657097-01

Site ID :

Project # : 2130

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/15/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/15/13	1
Vinyl acetate	BDL	0.010	mg/l	8260B	09/15/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/15/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/15/13	1
Allyl chloride	BDL	0.050	mg/l	8260B	09/15/13	1
Chloroprene	BDL	0.050	mg/l	8260B	09/15/13	1
trans-1,4-Dichloro-2-butene	BDL	0.0025	mg/l	8260B	09/15/13	1
Isobutanol	BDL	0.10	mg/l	8260B	09/15/13	1
1,4-Dioxane	BDL	0.10	mg/l	8260B	09/15/13	1
Methacrylonitrile	BDL	0.050	mg/l	8260B	09/15/13	1
Methyl methacrylate	BDL	0.050	mg/l	8260B	09/15/13	1
Ethyl methacrylate	BDL	0.0050	mg/l	8260B	09/15/13	1
Propionitrile	BDL	0.050	mg/l	8260B	09/15/13	1
Ethanol	BDL	0.10	mg/l	8260B	09/15/13	1
tert-Butyl alcohol	BDL	0.0050	mg/l	8260B	09/15/13	1
n-Butanol	BDL	0.20	mg/l	8260B	09/15/13	1
t-Amyl Alcohol	BDL	0.050	mg/l	8260B	09/15/13	1
Methyl Cyclohexane	BDL	0.0010	mg/l	8260B	09/15/13	1
Cyclohexane	BDL	0.0010	mg/l	8260B	09/15/13	1
n-Octane	BDL	0.010	mg/l	8260	09/15/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	09/15/13	1
Dibromofluoromethane	99.6		% Rec.	8260B	09/15/13	1
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	09/15/13	1
4-Bromofluorobenzene	106.		% Rec.	8260B	09/15/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/17/13 09:01 Printed: 09/17/13 09:01



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REPORT OF ANALYSIS

Peter Gintautas
Colorado Oil & Gas Conservation
213 Corundum Road
Trinidad, CO 81082

September 17, 2013

Date Received : September 12, 2013
Description : TBAL

Sample ID : TRIP BLANK

Collected By : Gintautas
Collection Date : 09/11/13 06:00

ESC Sample # : L657097-02

Site ID :

Project # : 2130

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	09/15/13	1
Acrolein	BDL	0.050	mg/l	8260B	09/15/13	1
Acrylonitrile	BDL	0.010	mg/l	8260B	09/15/13	1
Benzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromoform	BDL	0.0010	mg/l	8260B	09/15/13	1
Bromomethane	BDL	0.0050	mg/l	8260B	09/15/13	1
Carbon disulfide	BDL	0.0010	mg/l	8260B	09/15/13	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	09/15/13	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Chloroethane	BDL	0.0050	mg/l	8260B	09/15/13	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	09/15/13	1
Chloroform	BDL	0.0050	mg/l	8260B	09/15/13	1
Chloromethane	BDL	0.0025	mg/l	8260B	09/15/13	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Dibromomethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	09/15/13	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	09/15/13	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/15/13	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	09/15/13	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	09/15/13	1
2-Hexanone	BDL	0.010	mg/l	8260B	09/15/13	1
Iodomethane	BDL	0.010	mg/l	8260B	09/15/13	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	09/15/13	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	09/15/13	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	09/15/13	1
Pentachloroethane	BDL	0.050	mg/l	8260B	09/15/13	1
Styrene	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1
Toluene	BDL	0.0050	mg/l	8260B	09/15/13	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	09/15/13	1
Trichloroethene	BDL	0.0010	mg/l	8260B	09/15/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



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REPORT OF ANALYSIS

September 17, 2013

Peter Gintautas
Colorado Oil & Gas Conservation
213 Corundum Road
Trinidad, CO 81082

ESC Sample # : L657097-02

Date Received : September 12, 2013
Description : TBAL

Site ID :

Sample ID : TRIP BLANK

Project # : 2130

Collected By : Gintautas
Collection Date : 09/11/13 06:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	09/15/13	1
1,2,3-Trichloropropane	BDL	0.0025	mg/l	8260B	09/15/13	1
Vinyl acetate	BDL	0.010	mg/l	8260B	09/15/13	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	09/15/13	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	09/15/13	1
Allyl chloride	BDL	0.050	mg/l	8260B	09/15/13	1
Chloroprene	BDL	0.050	mg/l	8260B	09/15/13	1
trans-1,4-Dichloro-2-butene	BDL	0.0025	mg/l	8260B	09/15/13	1
Isobutanol	BDL	0.10	mg/l	8260B	09/15/13	1
1,4-Dioxane	BDL	0.10	mg/l	8260B	09/15/13	1
Methacrylonitrile	BDL	0.050	mg/l	8260B	09/15/13	1
Methyl methacrylate	BDL	0.050	mg/l	8260B	09/15/13	1
Ethyl methacrylate	BDL	0.0050	mg/l	8260B	09/15/13	1
Propionitrile	BDL	0.050	mg/l	8260B	09/15/13	1
Ethanol	BDL	0.10	mg/l	8260B	09/15/13	1
tert-Butyl alcohol	BDL	0.0050	mg/l	8260B	09/15/13	1
n-Butanol	BDL	0.20	mg/l	8260B	09/15/13	1
t-Amyl Alcohol	BDL	0.050	mg/l	8260B	09/15/13	1
Methyl Cyclohexane	BDL	0.0010	mg/l	8260B	09/15/13	1
Cyclohexane	BDL	0.0010	mg/l	8260B	09/15/13	1
n-Octane	BDL	0.010	mg/l	8260	09/15/13	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	09/15/13	1
Dibromofluoromethane	98.2		% Rec.	8260B	09/15/13	1
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	09/15/13	1
4-Bromofluorobenzene	108.		% Rec.	8260B	09/15/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/17/13 09:01 Printed: 09/17/13 09:01

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Attachment 2
List of Analytes with Q

Sample Number	Work Group	Sample Type	Analyte	ID	Qualifier
L657097-01	WG681694	SAMP	Styrene	R2817721	J4
	WG681694	SAMP	1,4-Dioxane	R2817721	B3
L657097-02	WG681694	SAMP	Styrene	R2817721	J4
	WG681694	SAMP	1,4-Dioxane	R2817721	B3

received 09/29/2013
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Project 2130

Qualifier	Meaning
B3	(ESC) - The indicated compound was found in the associated method blank, but all reported samples were non-detect.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Sa
09/17/13 at 09:0

received 09/29/2013
Complaint 200387998
and
Project 2130

TSR Signing Reports: 288
R5 - Desired TAT

COGCC EDD format needed

Sample: L657097-01 Account: COILGASRCO Received: 09/12/13 09:00 Due Date: 09/19/13 00:00 RPT Date: 09/17/13 09:01

Sample: L657097-02 Account: COILGASRCO Received: 09/12/13 09:00 Due Date: 09/19/13 00:00 RPT Date: 09/17/13 09:01

Environmental Science Corp.

Laboratory Services

VOLATILES ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	<u>Colorado Oil & Gas Conservation</u>	Client ID:	<div>752831 SZWAJA</div>
Project Desc.	<u>TBAL</u>		
Matrix:	<u>WATER</u>	ESC Sample No:	<u>L657097-01</u>
Date Collected:	<u>9/11/2013</u>	Lab File ID:	<u>0915_47</u>
Date Analyzed:	<u>9/15/2013</u>	Dilution Factor:	<u>1.00</u>

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TIC's are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TIC's are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Number of TICs Found: 0

Concentration units: _____

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
---------	----------	----	------------	----	----

Environmental Science Corp.

Laboratory Services

VOLATILES ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	<u>Colorado Oil & Gas Conservation</u>	Client ID:	<div>TRIP BLANK</div>
Project Desc.	<u>TBAL</u>		
Matrix:	<u>WATER</u>	ESC Sample No:	<u>L657097-02</u>
Date Collected:	<u>9/11/2013</u>	Lab File ID:	<u>0915_39</u>
Date Analyzed:	<u>9/15/2013</u>	Dilution Factor:	<u>1.00</u>

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TIC's are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TIC's are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Number of TICs Found: 0

Concentration units: _____

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
---------	----------	----	------------	----	----

Environmental Science Corp.

Laboratory Services

VOLATILES ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	<u>Colorado Oil & Gas Conservation</u>	Client ID:	<div>752831 SZWAJA</div>
Project Desc.	<u>TBAL</u>		
Matrix:	<u>WATER</u>	ESC Sample No:	<u>L657097-01</u>
Date Collected:	<u>9/11/2013</u>	Lab File ID:	<u>0915_47</u>
Date Analyzed:	<u>9/15/2013</u>	Dilution Factor:	<u>1.00</u>

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TIC's are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TIC's are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Number of TICs Found: 0

Concentration units: _____

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
---------	----------	----	------------	----	----

Environmental Science Corp.

Laboratory Services

VOLATILES ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	<u>Colorado Oil & Gas Conservation</u>	Client ID:	<div>TRIP BLANK</div>
Project Desc.	<u>TBAL</u>		
Matrix:	<u>WATER</u>	ESC Sample No:	<u>L657097-02</u>
Date Collected:	<u>9/11/2013</u>	Lab File ID:	<u>0915_39</u>
Date Analyzed:	<u>9/15/2013</u>	Dilution Factor:	<u>1.00</u>

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TIC's are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TIC's are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

Number of TICs Found: 0

Concentration units: _____

CAS NO.	COMPOUND	RT	EST. CONC.	QF	QA
---------	----------	----	------------	----	----