

APPENDIX E

PRESCO 2005 ANNUAL WATER QUALITY DATA



Case Narrative

Method: OP-DCL-MEE
Analysis: Methane, Ethane, and Ethene
DCL Set Ids: 05E-0571-01

Client: Cordilleran Compliance Ser.
Account: 8002
Matrix: Water
SDG: NR

General Set Information: The field samples were received and batched for analysis.

Method Summary: This method is used to determine the concentrations of methane in water using a headspace analyzer integrated with a GC equipped with an Rt-UPLLOT column and flame ionization detector.

Sample Preparation: A 5.0 mL sample aliquot was drawn through the septa of the sample vial and injected into the auto-sampler vial filled with helium and then analyzed.

Holding Times: Holding time requirements were met for sample analyses.

Dilutions: No dilutions were required.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank greater than the CRDL.

Laboratory Control Samples: All recoveries were within established limits.

Matrix Spike and Matrix Spike: MS and MSD were prepared from 05E04224.

Instrument QC:

Continuing Calibration Verification: All continuing calibration verification standards passed the average percent difference criteria described in 8000B (rev. 1, Dec 1996). See the Continuing Calibration Verification Forms for a list of any analytes that exceeded the + or - 15% limit.

NC/CAR: No NC/CAR's were issued.

This report contains

23 pages

Flagging Codes: A "B" qualifier indicates the analyte was found in the method blank. A "J" qualifier indicates the value is between the MDL and CRDL.

Sample Calculation: Analyte concentrations in the sample extracts were determined by interpolation from 1st order regressions of standard responses (peak heights) vs. concentrations. Final concentrations in ug/L were determined from the equation:

$$\text{Result} = (x-b)/a$$

Where:

x = analyte response

a = slope of the x-y plot of standard responses versus concentrations

b = y-intercept of the plot

Standard target calculations and examples are included in the calibration section.

Miscellaneous Comments: None.

Mila V. Potekhin



October 27, 2005



Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results	Yellow
Sample Tracking Documentation	Pink
Analytical Documentation	Blue
Raw Data	Green



Analytical Results



COVER PAGE OCT 27 2005

ANALYTICAL REPORT FOR
Cordilleran Compliance Services

Phone (303) 237-2072 Fax (303) 237-2659
E-mail: jameshix@cordcomp.com

Form COVER-V1.4
10260518140677

Page 1



G059L01K

DCL Report Group.: 05E-0571-01

Date Printed.....: 26-OCT-05 18:14

Project Protocol #: P059L003


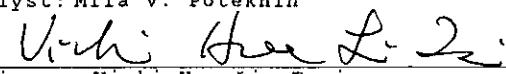
Client Ref Number.: E04243

Release Number....: E04243

Analysis Method(s): OV-DCL-MEE

Cordilleran Compliance Services
Attention: James Hix
5550 Marshall Street
Arvada, CO 80002

<u>Client Sample Name</u>	<u>Laboratory Sample Name</u>	<u>Date Sampled</u>	<u>Date Received</u>
CW-W2	05E04124	17-OCT-05	19-OCT-05
EG-SP2	05E04125	17-OCT-05	19-OCT-05
HC-S2	05E04126	17-OCT-05	19-OCT-05
WK-SP3	05E04127	17-OCT-05	19-OCT-05
WK-SP3D	05E04128	17-OCT-05	19-OCT-05
USGS-BC1	05E04129	17-OCT-05	19-OCT-05
LJS-W3	05E04130	17-OCT-05	19-OCT-05
PW-W7	05E04131	17-OCT-05	19-OCT-05
LH96-SP4	05E04132	17-OCT-05	19-OCT-05
GUS-SP1	05E04133	18-OCT-05	19-OCT-05
TJ-W6	05E04134	18-OCT-05	19-OCT-05
CK-W5	05E04135	18-OCT-05	19-OCT-05
CK-W5D	05E04136	18-OCT-05	19-OCT-05
JLS-W1	05E04137	18-OCT-05	19-OCT-05
MC-S3	05E04138	18-OCT-05	19-OCT-05
Method Blank	BL-237544-1	NA	NA
LCS	QC-237544-1	NA	NA


 Analyst: Mila V. Potekhin 10/26/05
 Date Date

 Reviewer: Vicki Hoe-Lin Tsai 10/27/05
 Date Date



FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.4
10260518140677

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SAMPLE GROUP COMMENTS



G059L01K

DCL Report Group...: 05E-0571-01
Date Printed.....: 26-OCT-05 18:14

Client Name...: Cordilleran Compliance Services

Release Number....: EO4243

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

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Report generation options: PX

Result Symbol Definitions

ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10260518140677

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:14
Client Name.....: Cordilleran Compliance Services
Client Ref Number....: EO4243
Sampling Site.....: EO4243
Release Number.....: EO4243

Date Received.....: 19-OCT-05 00:00

Client Sample Name: CW-W2
DCL Sample Name....: 05E04124
DCL Report Group...: 05E-0571-01

Matrix.....: WATER
Date Sampled.....: 17-OCT-05 09:29
Reporting Units....: µg/L
Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 5 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G059T00C
Analysis Method....: OV-DCL-MEE
Instrument Type....: GC/FID
Instrument ID.....: GC17
Column Type.....: RT-U PLOT
 Primary
 Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 12:49	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06B

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: EG-SP2

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04125

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 10:06

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

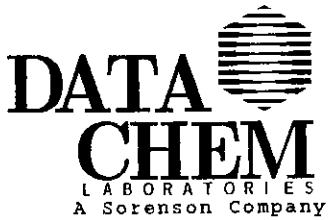
Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 13:00	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
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SAMPLE ANALYSIS DATA SHEET



S059L06C

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: HC-S2

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04126

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 10:39

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 13:10	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
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SAMPLE ANALYSIS DATA SHEET



S059L06D

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: **WK-SP3**

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: **05E04127**

Client Ref Number....: EO4243

DCL Report Group...: **05E-0571-01**

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 11:17

Date Received.....: 19-OCT-05 00:00

Reporting Units...: $\mu\text{g/L}$

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 13:21	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06F

Date Printed.....: 26-OCT-05 18:14

Client Name.....: Cordilleran Compliance Services
Client Ref Number....: EO4243
Sampling Site.....: EO4243
Release Number.....: EO4243

Date Received.....: 19-OCT-05 00:00

Client Sample Name: **WK-SP3D**
DCL Sample Name...: **05E04128**
DCL Report Group...: **05E-0571-01**

Matrix.....: WATER
Date Sampled.....: 17-OCT-05 11:19
Reporting Units...: $\mu\text{g/L}$
Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 5 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G059T00C
Analysis Method...: OV-DCL-MEE
Instrument Type...: GC/FID
Instrument ID.....: GC17
Column Type.....: RT-U PLOT
 Primary
 Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 13:32	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:14

Client Sample Name: USGS-BC1

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04129

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 12:12

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: [X]As Received []Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

[X] Primary

[] Confirmation

Analytical Results

Table with 8 columns: Analyte, Date Analyzed, MDL, Result, Comment, Qual., Dilution, CRDL. Row 1: Methane, 26-OCT-05 14:03, 0.505, ND, , , 1, 2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:14

Client Sample Name: LJS-W3
DCL Sample Name...: 05E04130
DCL Report Group...: 05E-0571-01

Client Name.....: Cordilleran Compliance Services
Client Ref Number....: E04243
Sampling Site.....: E04243
Release Number.....: E04243

Matrix.....: WATER
Date Sampled.....: 17-OCT-05 13:47
Reporting Units...: µg/L
Report Basis.....: As Received Dried

Date Received.....: 19-OCT-05 00:00

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 5 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G059T00C
Analysis Method...: OV-DCL-MEE
Instrument Type...: GC/FID
Instrument ID.....: GC17
Column Type.....: RT-U PLOT
 Primary
 Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 14:14	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06J

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: PW-W7

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04131

Client Ref Number...: EO4243

DCL Report Group..: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 14:24

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume...: Not Required

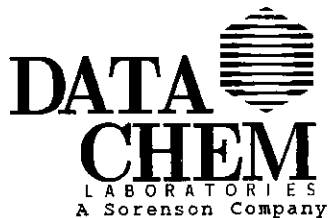
Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 14:24	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06K

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: LH96--SP4

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04132

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 17-OCT-05 15:15

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: [X]As Received []Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

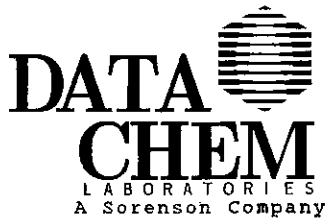
Column Type.....: RT-U PLOT

[X]Primary

[]Confirmation

Analytical Results

Table with 8 columns: Analyte, Date Analyzed, MDL, Result, Comment, Qual., Dilution, CRDL. Row 1: Methane, 26-OCT-05 14:35, 0.505, ND, , , 1, 2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10260518140677

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SAMPLE ANALYSIS DATA SHEET



S059L06L

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: GUS-SP1

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04133

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 18-OCT-05 08:45

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 14:45	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:14

Client Sample Name: TJ-W6

Client Name.....: Cordilleran Compliance Services

DCL Sample Name....: 05E04134

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 18-OCT-05 09:37

Date Received.....: 19-OCT-05 00:00

Reporting Units....: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method....: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type....: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 14:56	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
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SAMPLE ANALYSIS DATA SHEET



S059L06N

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: CK-W5

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04135

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 18-OCT-05 10:35

Date Received.....: 19-OCT-05 00:00

Reporting Units...: µg/L

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

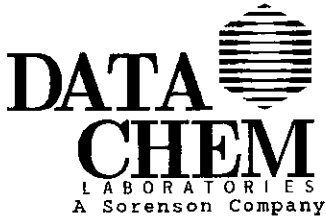
Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 15:06	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06P

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: **CK-W5D**

Client Name.....: Cordilleran Compliance Services

DCL Sample Name....: **05E04136**

Client Ref Number....: EO4243

DCL Report Group...: **05E-0571-01**

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 18-OCT-05 10:40

Date Received.....: 19-OCT-05 00:00

Reporting Units....: $\mu\text{g/L}$

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method....: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type....: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 15:17	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:14

Client Sample Name: JLS-W1
DCL Sample Name...: 05E04137
DCL Report Group...: 05E-0571-01

Client Name.....: Cordilleran Compliance Services
Client Ref Number....: EO4243
Sampling Site.....: EO4243
Release Number.....: EO4243

Matrix.....: WATER
Date Sampled.....: 18-OCT-05 12:20
Reporting Units...: µg/L
Report Basis.....: As Received Dried

Date Received.....: 19-OCT-05 00:00

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable
Aliquot Weight/Volume: 5 mL
Net Weight/Volume....: Not Required

DCL Analysis Group: G059T00C
Analysis Method...: OV-DCL-MEE
Instrument Type...: GC/FID
Instrument ID.....: GC17
Column Type.....: RT-U PLOT
Primary
Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 15:27	0.505	ND			1	2.27



FORM A (TYPE I)
SINGLE METHOD ANALYSES

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SAMPLE ANALYSIS DATA SHEET



S059L06R

Date Printed.....: 26-OCT-05 18:14

Client Sample Name: MC-S3

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: 05E04138

Client Ref Number....: EO4243

DCL Report Group...: 05E-0571-01

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: EO4243

Date Sampled.....: 18-OCT-05 13:05

Reporting Units...: µg/L

Date Received.....: 19-OCT-05 00:00

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC17

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 15:28	0.505	ND			1	2.27



FORM B (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63B-V1.4
10260518140677

Page 18



S059T004

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)

Client Name.....: Cordilleran Compliance Services
Release Number.....: E04243

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

DCL Sample Name...: QC-237544-1
Date Printed.....: 26-OCT-05 18:14

DCL Analysis Group: G059T00C
Analysis Method...: GASES
Instrument Type...: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Methane	26-OCT-05 11:57	568.	557.	98.1	73.8/117.	



FORM C (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63C-V1.4
10260518140677

Page 19

QUALITY CONTROL DATA SHEET
BLANK SAMPLE



S059T003

Client Name.....: Cordilleran Compliance Services
Release Number.....: EO4243

DCL Sample Name...: BL-237544-1
Date Printed.....: 26-OCT-05 18:14

Matrix.....: WATER
Reporting Units.....: µg/L

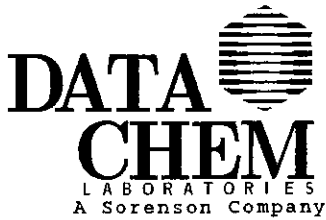
DCL Analysis Group: G059T00C
Analysis Method...: OV-DCL-MEE
Instrument Type...: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Methane	26-OCT-05 11:46	ND	0.505	2.27



FORM F (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63F-V1.4
10260518140677
Page 20

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE



Client Name.....: Cordilleran Compliance Services
Release Number.....: EO4243

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Sample Name....: 05E04224MS
Date Printed.....: 26-OCT-05 18:14

DCL Analysis Group: G059T00C
Analysis Method....: GASES
Instrument Type....: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Methane	26-OCT-05 12:07	0.00	555.	568.	97.7		



DCL Sample Name....: 05E04224MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Methane	26-OCT-05 12:18	591.	104.	573.	36.0	6.3		

DataChem Laboratories CHAIN-OF-CUSTODY

Earliest Sampling Date: 17-Oct-2005

Project/Job/Task: P059L003		Split:		Root Set ID: 05E-0571 *		Reporting Group		#
Client: Cordilleran Compliance Services		Account: 08002						Bottles
Comments:								
Verified: <i>AS</i>								
Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis	
17-Oct-2005	CW-W2	05E04124			WATER			2
17-Oct-2005	EG-SP2	05E04125			WATER			2
17-Oct-2005	HC-S2	05E04126			WATER			2
17-Oct-2005	WK-SP3	05E04127			WATER			2
17-Oct-2005	WK-SP3D	05E04128			WATER			2
17-Oct-2005	USGS-BC1	05E04129			WATER			2
17-Oct-2005	LJS-W3	05E04130			WATER			2
17-Oct-2005	PW-W7	05E04131			WATER			2
17-Oct-2005	LH96-SP4	05E04132			WATER			2
18-Oct-2005	GUS-SP1	05E04133			WATER			2

01 Methane in Water by RSKSOP178

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY				SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY			
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location	Sample Prep/Analysis for: Prepared/Analyzed by:	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
<i>AS</i>	10/26/05 10:22am	<i>AS</i>	for analysis				
<i>AS</i>	10/26/05 7:00pm	<i>AS</i>	for storage				

Lab Notebook No.: _____ Date/Time: _____ Reason for Transfer/Storage Location

Check box if there is a continuation page

Form: COFC1-01-SWV2.30 Printed 10/19/2005 15:03

DataChem Laboratories CHAIN-OF-CUSTODY

Earliest Sampling Date: 17-Oct-2005

Project/Job/Task: P059L003		Split:		Root Set ID: 05E-0571 *		Reporting Group		#	
Client: Cordilleran Compliance Services				Account: 08002					
Comments:									
Verified:									
Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis		
18-Oct-2005	TJ-W6	05E04134			WATER			X	01
18-Oct-2005	CK-W5	05E04135			WATER			X	
18-Oct-2005	CK-W5D	05E04136			WATER			X	
18-Oct-2005	JLS-W1	05E04137			WATER			X	
18-Oct-2005	MC-S3	05E04138			WATER			X	

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY					SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY				
Relinquished By: (Signature) _____ Date/Time: _____ Walk-in/ Room/ Shelf/ Fridge _____					Sample Prep/Analysis for: _____ Lab Notebook No.: _____ Prepared/Analyzed by: _____ Date/Time: _____				
					Relinquished By: (Signature) _____ Date/Time: _____		Received By: (Signature) _____ Date/Time: _____		Reason for Transfer/ Storage Location _____

Check box if there is a continuation page

Printed 10/19/2005 15:03

Form: COPCL01-SWV2.30



Paragon Analytics

A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

05E-0571

Accession Number (LAB ID)

Page _____ of _____ Date _____

Chain-of-Custody

Originator: Retain pink copy

Project Name / No.: EC 4243 Sampler(s): James Hix Turnaround (circle one): Standard or Rush (Due _____) Dispose: Date _____ or Return to Client _____

Report To: James Hix
 Phone: 303 237-2672
 Fax: 303 237-2659
 E-mail: James.hix@cord.com
 Company: Cordilleran Compliance Services
 Address: 5550 Marshall Street
Arvada, CO 80002

Circle method (right); provide additional information as needed (comments).

Sample ID	Date	Time *	Lab ID	Matrix	Preservative	(Indicate type)	No. of Containers
GW-W2	10/17/05	0929		W	φ	φ	2
FG-SFA	10/17/05	1006		W	φ	φ	2
HC-Sa	10/17/05	1039		W	φ	φ	2
WK-SFS	10/17/05	1117		W	φ	φ	2
WK-SFS-D	10/17/05	1119		W	φ	φ	2
WSES-BC1	10/17/05	1212		W	φ	φ	2
LJS-W3	10/17/05	1347		W	φ	φ	2
P10-W17	10/17/05	1424		W	φ	φ	2
LH96-SF4	10/17/05	1515		W	φ	φ	2

Additional handwritten notes in table:
 Vocs: SW8260B E624 E524.2
 BTEX (only): SW8021B
 SVOCs: SW8270C E625
 OC Pesticides: SW8081A E608
 PCBs: SW8082 E608
 Herbicides: SW8151A
 Explosives: SW8330
 TCLP Organics SW1311
 TCLP Metals SW1311
 Total Metals by ICP: SW6010B 7470 7471 E200 ILMO
 Dissolved Metals by ICP: SW6010B 7470 E200 ILMO
 Total Metals by ICP/MMS: SW6020 E200 B ILMO
 Dissolved Metals by ICP/MMS: SW6020 E200 B ILMO
 Hexavalent Chromium: SW7196A Alkaline Digest? Y / N
 Inorganic Anions: SW9056 E300.0 (specify in comments)
 Solids: Total E160.3 TDS E160.1 TSS E160.2
 pH: SW9040B SW9045C
 TPH: GRO DRO SW8015B (both)
 Gross Alpha / Beta: SW9310 E900.0
 Actinides by Paragon SOP: Pu / U / Am / Th / Cm /
 Tritium: E906.0
 Total Alpha-Emitting Radium: SW9315 E903.0
 Radium 226 E903.1
 Radium 228 SW9320 E904.0
 Strontium 89 D5811-00
 Radium 226 SW9320 E904.0
 Gamma Isotopes: E901.1

Relinquished By: (1) Signature: James Hix Printed Name: James Hix Date: 10/18/05 Time: 1405 Company: Cordilleran
 Relinquished By: (2) Signature: [Signature] Printed Name: [Name] Date: _____ Time: _____ Company: _____

Received By: (1) Signature: [Signature] Printed Name: [Name] Date: _____ Time: _____ Company: _____
 Received By: (2) Signature: [Signature] Printed Name: [Name] Date: _____ Time: _____ Company: _____

Comments:
 * Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter
 o Please report one sample per page
 o stored on ice.



Paragon Analyticals

A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

USE-387
USE-0571

Accession Number (LAB ID) _____

Chain-of-Custody Date 10/18/05 Page 1 of 1

Originator: Retain pink copy

Project Name / No.: _____ Sampler(s): James Hix Turnaround (circle one): Standard or Rush (Due _____) Dispose: Date _____ or Return to Client _____

Report To: James Hix
 Phone: 303 237 2072
 Fax: 303 237-2659
 E-mail: james.hix@cardcomp.com
 Company: Cardi-Herion Compliance Services
 Address: 555C Marshall Street
Arvada, CO 80002

Circle method (right); provide additional information as needed (comments).

Sample ID	Date	Time *	Lab ID	Matrix	Preservative	(indicate type)	No. of Containers
<u>CVS-SF1</u>	<u>10/18/05</u>	<u>0845</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>2</u>
<u>TJ-W6</u>	<u>10/18/05</u>	<u>0937</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>Ø</u>
<u>CK-W5</u>	<u>10/18/05</u>	<u>1035</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>2</u>
<u>CK-W5D</u>	<u>10/18/05</u>	<u>1040</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>2</u>
<u>VLS-W1</u>	<u>10/18/05</u>	<u>1220</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>2</u>
<u>MC-S3</u>	<u>10/18/05</u>	<u>1325</u>		<u>W</u>	<u>Ø</u>	<u>Ø</u>	<u>Ø</u>

Method	SW#	Method	SW#	Method	SW#	Method	SW#
VOCs	SW2608 E624 E524.2	BTEX (only)	SW8021B	SVOCs	SW9270C E825	OC Pesticides	SW8081A E608
PCBs	SW8082 E608	Herbicides	SW8151A	Explosives	SW8330	TCLP Organics	SW1311 SW8260B 8270C 8081A 8151A
TCLP Metals	SW6108 SW7471	TCLP Metals	SW6108 SW7471	Total Metals by ICP	SW6108 7470 7471 E200 ILMO	Dissolved Metals by ICP	SW6108 7470 E200 ILMO
Total Metals by ICP/MS	SW6020 E200.8 ILMO	Total Metals by ICP/MS	SW6020 E200.8 ILMO	Dissolved Metals by ICP/MS	SW6020 E200.8 ILMO	Hexavalent Chromium	SW7198A Alkaline Digest? Y / N
Inorganic Anions	SW9056 E300.0 (specify in comments)	Solids:	Total E160.3 TOS E160.1 TSS E160.2	pH	SW9040B SW9045C	TPH	GFO DFO SW8015B (both)
Gross Alpha / Beta	SW9310 E900.0	Actinides by Paragon SOP	Pu / U / Am / Th / Cm /	Tritium	E906.0	Total Alpha-Emitting Radium	SW9315 E903.0
Radium 226 E903.1	Radium 228 SW9320 E904.0	Strontium 89 D5811-00	Strontium 90 D5811-00	Gamma Isotopes	E901.1		

Relinquished By: James Hix Signature James Hix (1)
 Printed Name James Hix
 Date 10/18/05 Time 1403
 Company Cardi-Herion

Relinquished By: Michelle Edwards Signature Michelle Edwards (2)
 Printed Name Michelle Edwards
 Date 10/18/05 Time 1000
 Company Paragon Labs

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter
 Comments: Please report one sample per page
stored on ice.



Case Narrative

Method: OP-DCL-MEE
Analysis: Methane, Ethane, and Ethene
DCL Set Ids: 05E-0641-01

Client: Cordillerian Compliance
Services
Account: 8002
Matrix: Water
SDG: NA

General Set Information: The field sample was received and batched for analysis.

Method Summary: This method is used to determine the concentrations of methane in water using a headspace analyzer integrated with a GC equipped with an Rt-UPLOT column and flame ionization detector.

Sample Preparation: A 5.0 mL sample aliquot was drawn through the septa of the sample vial and injected into the auto-sampler vial filled with helium and then analyzed.

Holding Times: Holding time requirements were met for sample analyses.

Dilutions: None.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank greater than ½ the CRDL.

Laboratory Control Samples: All recoveries were within established limits.

Matrix Spike and Matrix Spike: MS and MSD were prepared from 05C04594.

Instrument QC:

Continuing Calibration Verification: All continuing calibration verification standards passed the average percent difference criteria described in 8000B (rev. 1, Dec 1996). See the Continuing Calibration Verification Forms for a list of any analytes that exceeded the + or - 15% limit.

NC/CAR: No NC/CAR's were issued.

This report contains
12 pages

001

Flagging Codes: A "B" qualifier indicates the analyte was found in the method blank. A "J" qualifier indicates the value is between the MDL and CRDL.

Sample Calculation: Analyte concentrations in the sample extracts were determined by interpolation from 1st order regressions of standard responses (peak heights) vs. concentrations. Final concentrations in ug/L were determined from the equation:

$$\text{Result} = (x-b)/a$$

Where:

x = analyte response

a = slope of the x-y plot of standard responses versus concentrations

b = y-intercept of the plot

Standard target calculations and examples are included in the calibration section.

Miscellaneous Comments: None.



Mila V. Potekhin

December 1, 2005



Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results	Yellow
Sample Tracking Documentation	Pink
Analytical Documentation	Blue
Raw Data	Green



Analytical Results



COVER PAGE

DEC 01 2005

Form COVER-V1.4
12010512052153
Page 1

ANALYTICAL REPORT FOR
Cordilleran Compliance Services

Phone (303) 237-2072 Fax (303) 237-2659
E-mail: jameshix@cordcomp.com



DCL Report Group...: 05E-0641-01


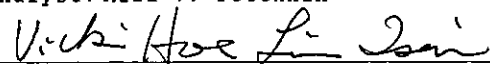
Date Printed.....: 01-DEC-05 12:05

Project Protocol #: P059L003
Client Ref Number..: EO4243
Release Number....: EO4243

Analysis Method(s): DCL SOP

Cordilleran Compliance Services
Attention: James Hix
5550 Marshall Street
Arvada, CO 80002

<u>Client Sample Name</u>	<u>Laboratory Sample Name</u>	<u>Date Sampled</u>	<u>Date Received</u>
Method Blank	BL-238528-1	NA	NA
LCS	QC-238528-1	NA	NA
RS-W4	05E04594	18-NOV-05	19-NOV-05
RS-W4	05E04594MS	18-NOV-05	19-NOV-05
RS-W4	05E04594MSD	18-NOV-05	19-NOV-05


 Analyst: Mila V. Potekhin 12/11/05
 Date

 Reviewer: Vicki Hoe-Lin Tsai 12/11/05
 Date



FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.4
12010512013598
Page 2

SAMPLE GROUP COMMENTS



G05BN01Y

Client Name...: Cordilleran Compliance Services

DCL Report Group...: 05E-0641-01
Date Printed.....: 01-DEC-05 12:01

Release Number....: E04243

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

DataChem Laboratories, Inc. is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at <http://hlunix.hl.state.ut.us/els/labimp/labcertification/labsutahcert.mdb>. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

Report generation options: FX

Result Symbol Definitions

- ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
- ** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

- U - Not Detected above the MDL (LLD or MDC for radiochemistry).
- B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
- J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

- * - Parameter outside of specified QC limits.



**FORM A (TYPE I)
SINGLE METHOD ANALYSES**

Form RLIMS63A-V1.4
12010512013598
Page 3

SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 01-DEC-05 12:01
 Client Name.....: Cordilleran Compliance Services
 Client Ref Number.....: EO4243
 Sampling Site.....: EO4243
 Release Number.....: EO4243
 Date Received.....: 19-NOV-05 00:00

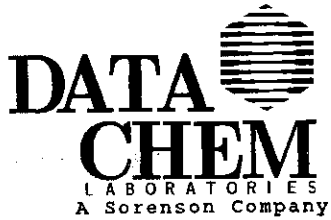
Client Sample Name: RS-W4
 DCL Sample Name...: 05E04594
 DCL Report Group...: 05E-0641-01
 Matrix.....: WATER
 Date Sampled.....: 18-NOV-05 08:40
 Reporting Units...: µg/L
 Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable
 Date Prepared.....: 30-NOV-05 00:00
 Preparation Method...: Not Applicable
 Aliquot Weight/Volume: 5 mL
 Net Weight/Volume....: Not Required

DCL Analysis Group: G05C0008
 Analysis Method...: DCL SOP
 Instrument Type...: HEADSPAC
 Instrument ID.....: GC17
 Column Type.....: Rt-U PLOT
 Primary
 Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	30-NOV-05 18:36	0.432	ND			1	2.27



FORM B (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63B-V1.4
12010512013598
Page 4

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)



Client Name.....: Cordilleran Compliance Services
Release Number.....: EO4243

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Sample Name....: QC-238528-1
Date Printed.....: 01-DEC-05 12:01

DCL Analysis Group: G05C0008
Analysis Method...: GASES
Instrument Type...: HEADSPAC
Instrument ID.....: GC17
Column Type.....: Rt-U PLOT
 Primary
 Confirmation

DCL Preparation Group: Not Applicable
Date Prepared.....: 30-NOV-05 00:00
Preparation Method...: Not Applicable

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Methane	30-NOV-05 18:02	568.	554.	97.5	73.8/117.	



FORM C (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63C-V1.4
12010512013598
Page 5

QUALITY CONTROL DATA SHEET
BLANK SAMPLE



S05C000S

Client Name.....: Cordilleran Compliance Services
Release Number.....: EO4243

Matrix.....: WATER
Reporting Units.....: µg/L

DCL Preparation Group: Not Applicable
Date Prepared.....: 30-NOV-05 00:00
Preparation Method...: Not Applicable

DCL Sample Name....: BL-238528-1
Date Printed.....: 01-DEC-05 12:01

DCL Analysis Group: G05C0008
Analysis Method...: DCL SOP
Instrument Type...: HEADSPAC
Instrument ID.....: GC17
Column Type.....: Rt-U PLOT
 Primary
 Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Methane	30-NOV-05 17:52	ND	0.432	2.27



FORM F (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63F-V1.4
12010512013598
Page 6

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE



Client Name.....: Cordilleran Compliance Services
Release Number.....: EO4243

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: Not Applicable
Date Prepared.....: 30-NOV-05 00:00
Preparation Method...: Not Applicable

DCL Sample Name....: 05E04594MS
Date Printed.....: 01-DEC-05 12:01

DCL Analysis Group: G05C0008
Analysis Method...: GASES
Instrument Type...: HEADSPAC
Instrument ID.....: GC17
Column Type.....: Rt-U PLOT
 Primary
 Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Methane	30-NOV-05 18:14	0.00	570.	568.	100.		



DCL Sample Name....: 05E04594MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Methane	30-NOV-05 18:25	598.	105.	584.	28.0	4.8		

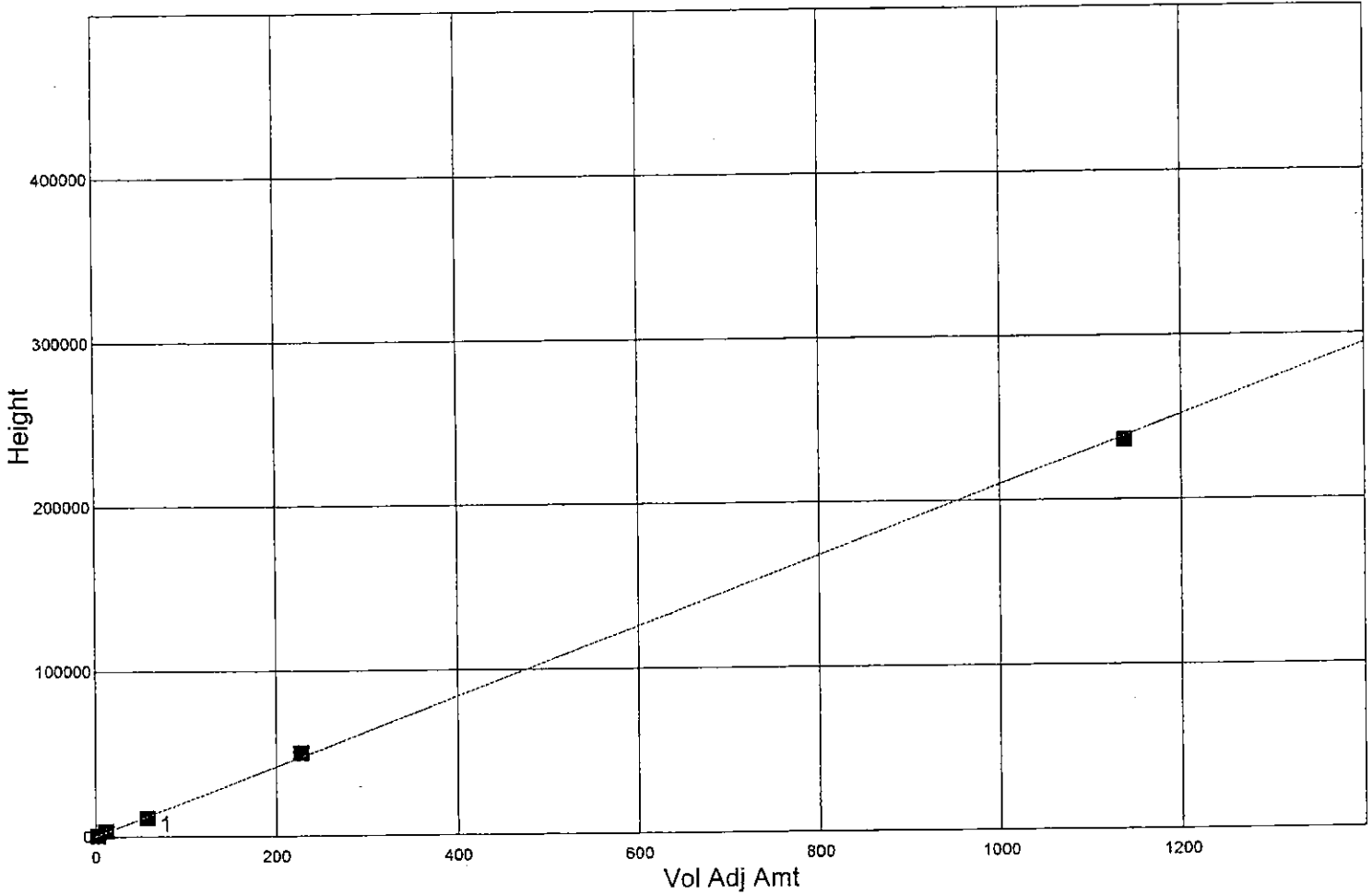
Component Name: "Methane"

Date: 09/21/04 Time: 22:18

Curve Parameters:

Curve #1 : 1st Order
 Weighting Factor = 1/x $r^2 = 0.998423$
 Calibration Curve = $(481.941542) + (209.918978)X$

Methane



Level Name	Observed X-Value	Calculated X-Value	Delta	%Diff.	Observed Y-Value	Calculated Y-Value	Delta	%Diff.
5	2.270000	1.695740	0.574260	33.865	837.910	958.458	-120.548	-12.577
4	11.400000	14.533505	-3.133505	-21.561	3532.800	2875.018	657.782	22.879
3	56.800000	52.818006	3.981994	7.539	11569.443	12405.339	-835.896	-6.738
2	227.000000	240.322590	-13.322590	-5.544	50930.214	48133.549	2796.665	5.810
1	1136.000000	1124.100159	11.899841	1.059	236451.898	238949.900	-2498.003	-1.045

Software Version: 4.1<2F12>

Date: 12/01/05 10:10

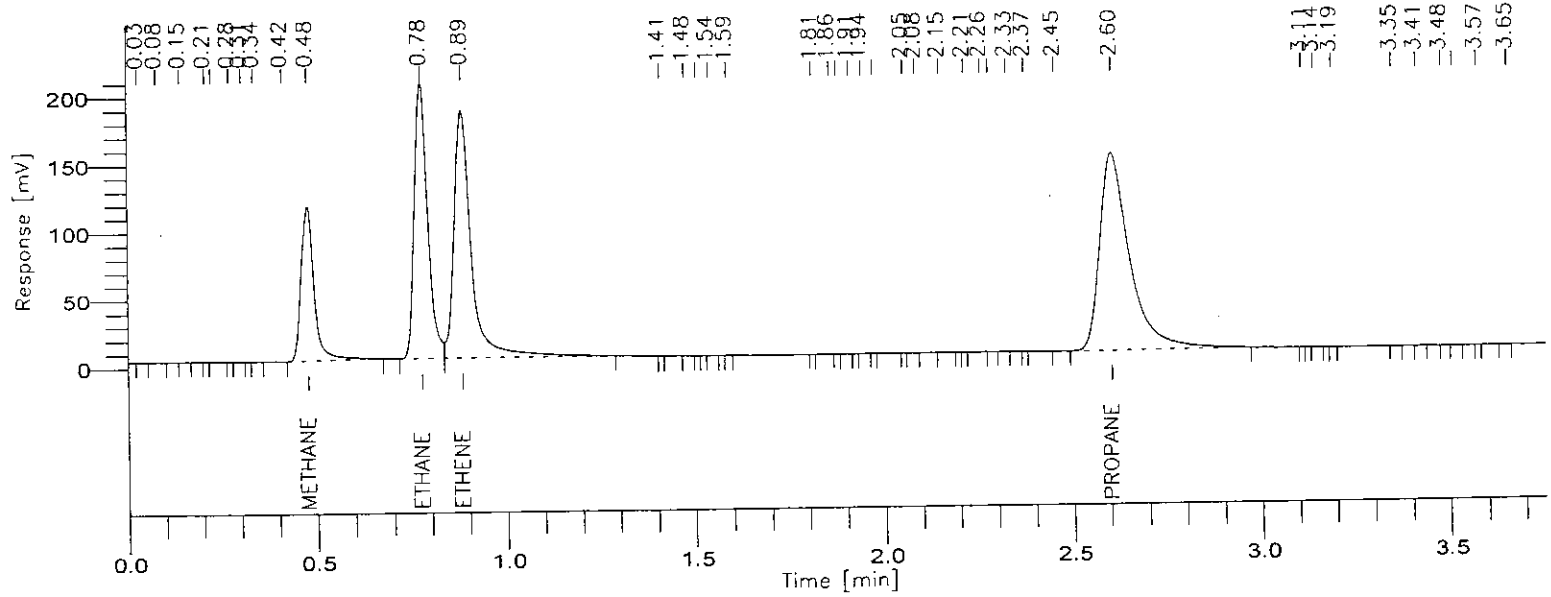
Sample Name : CCV1

Data File : D:\TC4\GC17\DATA\051130\1130002.RAW Date: 11/30/05 17:30

Sequence File: D:\TC4\GC17\SEQUENCE\051130.SEQ Cycle: 2 Channel : A

Instrument : GC17 Rack/Vial: -2304/0 Operator: MVP

Sample Amount : 1.0000 Dilution Factor : 1.00



CONTINUING CALIBRATION VERIFICATION REPORT

Time min	Component Name	Height uV	Area [pV·s]	Raw Amt ug/mL	Target Amt ug/mL	Recovery %
0.48	Methane	115899	275555	549.8163722	568.0000000	96.8
0.78	Ethane	205170	500705	1025.9599201	1065.0000000	96.3
0.89	Ethene	183524	577178	961.1864421	994.0000000	96.7
2.60	Propane	146191	804975	1459.2446803	1561.0000000	93.5

383.3

=====
All analytes <= to +/-30% and average is <= to +/-15%? YES NO
=====

Software Version: 4.1<2F12>

Date: 12/01/05 10:26

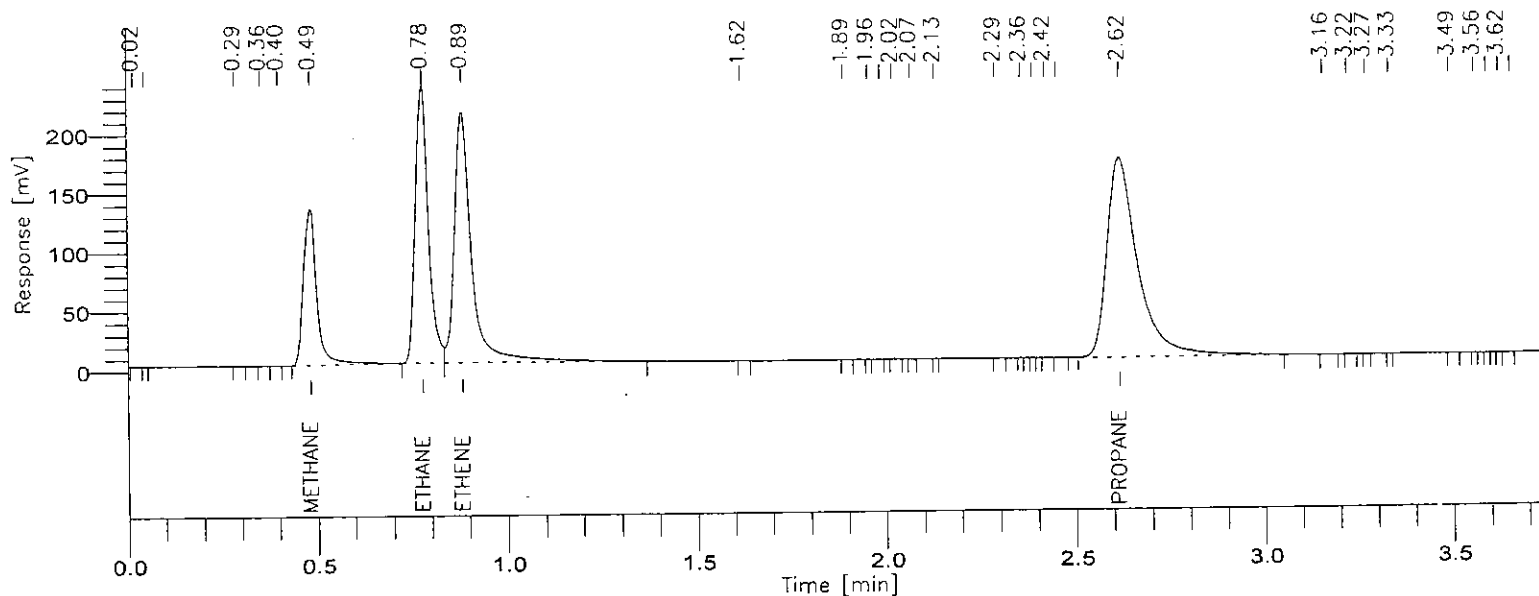
Sample Name : CCV2

Data File : D:\TC4\GC17\DATA\051130\1130010.RAW Date: 11/30/05 18:58

Sequence File: D:\TC4\GC17\SEQUENCE\051130.SEQ Cycle: 10 Channel : A

Instrument : GC17 Rack/Vial: -2304/0 Operator: MVP

Sample Amount : 1.0000 Dilution Factor : 1.00



CONTINUING CALIBRATION VERIFICATION REPORT

Time min	Component Name	Height uV	Area [$\mu\text{V}\cdot\text{s}$]	Raw Amt ug/mL	Target Amt ug/mL	Recovery %
0.49	Methane	133321	321932	632.8091974	568.0000000	111.4
0.78	Ethane	237264	570974	1186.8296459	1065.0000000	111.4
0.89	Ethene	213889	674158	1120.5916591	994.0000000	112.7
2.62	Propane	168773	946225	1685.2944486	1561.0000000	108.0

443.5

=====
All analytes \leq to $\pm 30\%$ and average is \leq to $\pm 15\%$? YES NO
=====



Paragon Analytics

A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID)

Chain-of-Custody Date _____ Page _____ of _____

Originator: Retain pink copy

Sample ID	Date	Time*	Lab ID	Matrix	Preservative	(Indicate type)	No. of Containers	Circle method (right); provide additional information as needed (comments).
RS-W4	11/18/05	0840	6A	0	0	0	2	<p>Project Name / No.: _____ Turnaround (circle one): Standard or Rush (Due) _____ or Return to Client _____</p> <p>Sampler(s): _____ Disposer: Date _____</p> <p>Report To: James Hix Phone: (303) 237-2073 Fax: (303) 237-2659 E-mail: James.hix@cordcomp.com Company: Cord Chem Compliance Services Address: 5550 Marshall St, Avada, CO 80002</p>
								<p>VOCS SW8260B E624 E524.2</p> <p>BTEX (only) SW8021B</p> <p>SVOCs SW8270C E625</p> <p>OC Pesticides SW8081A E608</p> <p>PCBs SW8082 E608</p> <p>Herbicides SW8151A</p> <p>Explosives SW8330</p> <p>TCLP Organics SW1311 SW8260B 8270C 8081A 8151A</p> <p>TCLP Metals SW1311 SW6010B SW7471</p> <p>Total Metals by ICP SW6010B 7470 7471 E200 ILMO</p> <p>Dissolved Metals by ICP SW6010B 7470 E200 ILMO</p> <p>Total Metals by ICP/MS SW6020 E200.8 ILMO</p> <p>Dissolved Metals by ICP/MS SW6020 E200.8 ILMO</p> <p>Hexavalent Chromium SW7196A Alkaline Digest? Y / N</p> <p>Inorganic Anions SW9056 E300.0 (specify in comments)</p> <p>Solids: Total E160.3 TDS E160.1 TSS E160.2 SW9040B SW9045C</p> <p>pH GRO DRO SW9015B (both)</p> <p>Gross Alpha / Beta SW9310 E900.0</p> <p>Actinides by Paragon SOP Pu / U / Am / Th / Cm / _____</p> <p>Tritium E906.0</p> <p>Total Alpha-Emitting Radium SW9315 E903.0</p> <p>Radium 226 E903.1 Radium 228 SW9320 E904.0</p> <p>Strontium 89 D5811-00 Strontium 90 D5811-00</p> <p>Gamma Isotopes E901.1</p>

DE 014

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter
Comments:

Relinquished By: (1) Signature: James Hix
Printed Name: James Hix
Date: 11/18/05 Time: 1555
Company: Cord Chem

Received By: (1) Signature: J. Hix
Printed Name: J. Hix
Date: 11/19/05 Time: 0850
Company: Cord Chem Laboratories

Relinquished By: (2) Signature: _____ Printed Name: _____ Date: _____ Time: _____ Company: _____

Received By: (2) Signature: _____ Printed Name: _____ Date: _____ Time: _____ Company: _____

(303) 589-1577 cell.



Case Narrative

Method: OP-DCL-MEE
Analysis: Methane, Ethane, and Ethene
DCL Set Ids: 05E-0581-01

Client: Cordilleran Compliance Ser.
Account: 8002
Matrix: Water
SDG: NR

General Set Information: The field sample was received and batched for analysis.

Method Summary: This method is used to determine the concentrations of methane in water using a headspace analyzer integrated with a GC equipped with an Rt-UPLOT column and flame ionization detector.

Sample Preparation: A 5.0 mL sample aliquot was drawn through the septa of the sample vial and injected into the auto-sampler vial filled with helium and then analyzed.

Holding Times: Holding time requirements were met for sample analyses.

Dilutions: No dilutions were required.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank greater than the CRDL.

Laboratory Control Samples: All recoveries were within established limits.

Matrix Spike and Matrix Spike: MS and MSD were prepared from 05E04224.

Instrument QC:

Continuing Calibration Verification: All continuing calibration verification standards passed the average percent difference criteria described in 8000B (rev. 1, Dec 1996). See the Continuing Calibration Verification Forms for a list of any analytes that exceeded the + or - 15% limit.

NC/CAR: No NC/CAR's were issued.

This report contains

9 pages

001

Flagging Codes: A "B" qualifier indicates the analyte was found in the method blank. A "J" qualifier indicates the value is between the MDL and CRDL.

Sample Calculation: Analyte concentrations in the sample extracts were determined by interpolation from 1st order regressions of standard responses (peak heights) vs. concentrations. Final concentrations in ug/L were determined from the equation:

$$\text{Result} = (x-b)/a$$

Where:


x = analyte response

a = slope of the x-y plot of standard responses versus concentrations

b = y-intercept of the plot

Standard target calculations and examples are included in the calibration section.

Miscellaneous Comments: None.


Mila V. Potekhin

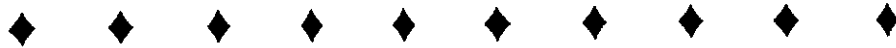
October 27, 2005



Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results	Yellow
Sample Tracking Documentation	Pink
Analytical Documentation	Blue
Raw Data	Green



Analytical Results



OCT 27 2005

COVER PAGE

ANALYTICAL REPORT FOR
Cordilleran Compliance Services
Phone (303) 237-2072 Fax (303) 237-2659
E-mail: jameshix@cordcomp.com

Form COVER-V1.4
10260518171298
Page 1



Cordilleran Compliance Services
Attention: James Hix
5550 Marshall Street
Arvada, CO 80002

DCL Report Group...: 05K-0581-01
Date Printed.....: 26-OCT-05 18:17
Project Protocol #: P059L003
Client Ref Number.: Not Provided
Release Number....: Not Provided
Analysis Method(s): OV-DCL-MEE

Table with 4 columns: Client Sample Name, Laboratory Sample Name, Date Sampled, Date Received. Rows include Method Blank, LCS, and BM36-23CULV samples.

Analyst: Mila V. Potekhin (signature) 10/26/05
Date
Reviewer: Vicki Hoe-Lin Tsai (signature) 10/27/05
Date



FORM H (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63H-V1.4
10260518171298
Page 2

SAMPLE GROUP COMMENTS



G059R039

DCL Report Group...: 05E-0581-01
Date Printed.....: 26-OCT-05 18:17

Client Name...: Cordilleran Compliance Services

Release Number...: Not Provided

General Information

The DCL QC Database maintains all numerical figures which are input from the pertinent data source. These data have not been rounded to significant figures nor have they been moisture corrected. Reports generated from the system, however, list data which have been rounded to the number of significant figures requested by the client or deemed appropriate for the method. This may create minor discrepancies between data which appear on the QC Summary Forms (Forms B-G) and those that would be calculated from rounded analytical results. Additionally, if a moisture correction is performed, differences will be observed between the QC data and the surrogate data reported on Form A (or other report forms) and corresponding data reported on QC Summary Forms. In these cases, the Form A will indicate the "Report Basis" as well as the moisture value used for making the correction.

DataChem Laboratories, Inc. is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at <http://hlunix.hl.state.ut.us/els/labimp/labcertification/labsutahcert.mdb>. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

Report generation options: PX

Result Symbol Definitions

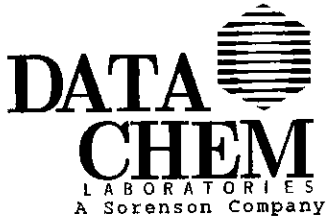
ND - Not Detected above the MDL (LLD or MDC for radiochemistry).
** - No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U - Not Detected above the MDL (LLD or MDC for radiochemistry).
B - For organic analyses the qualifier indicates that this analyte was found in the method blank. For inorganic analyses the qualifier signifies the value is between the MDL and PQL.
J - For organic analyses the qualifier indicates that the value is between the MDL and the PQL. It is also used for indicating an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

QC Flag Symbol Definitions

* - Parameter outside of specified QC limits.



FORM A (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63A-V1.4
10260518171298
Page 3

SAMPLE ANALYSIS DATA SHEET



Date Printed.....: 26-OCT-05 18:17

Client Sample Name: **BM36-23CULV**

Client Name.....: Cordilleran Compliance Services

DCL Sample Name...: **05E04224**

Client Ref Number....: Not Provided

DCL Report Group...: **05E-0581-01**

Sampling Site.....: EO4243

Matrix.....: WATER

Release Number.....: Not Provided

Date Sampled.....: 21-OCT-05 13:35

Date Received.....: 22-OCT-05 00:00

Reporting Units...: $\mu\text{g/L}$

Report Basis.....: As Received Dried

DCL Preparation Group: Not Applicable

DCL Analysis Group: G059T00C

Date Prepared.....: 26-OCT-05 00:00

Analysis Method...: OV-DCL-MEE

Preparation Method...: Not Applicable

Instrument Type...: GC/FID

Aliquot Weight/Volume: 5 mL

Instrument ID.....: GC16

Net Weight/Volume....: Not Required

Column Type.....: RT-U PLOT

Primary

Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Methane	26-OCT-05 12:39	0.505	ND			1	2.27



FORM B (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63B-V1.4
10260518171298
Page 4

QUALITY CONTROL DATA SHEET
LABORATORY CONTROL SAMPLE (LCS)



Client Name.....: Cordilleran Compliance Services
Release Number.....: Not Provided

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

DCL Sample Name....: QC-237544-1
Date Printed.....: 26-OCT-05 18:17

DCL Analysis Group: G059T00C
Analysis Method...: GASES
Instrument Type...: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Target	Result	Percent Recovery	QC Limits	QC Flag
Methane	26-OCT-05 11:57	568.	557.	98.1	73.8/117.	



FORM C (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63C-V1.4
10260518171298
Page 5

QUALITY CONTROL DATA SHEET
BLANK SAMPLE



Client Name.....: Cordilleran Compliance Services
Release Number.....: Not Provided

Matrix.....: WATER
Reporting Units.....: µg/L

DCL Sample Name....: BL-237544-1
Date Printed.....: 26-OCT-05 18:17

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

DCL Analysis Group: G059T00C
Analysis Method....: OV-DCL-MEE
Instrument Type....: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Result	MDL	CRDL
Methane	26-OCT-05 11:46	ND	0.505	2.27



FORM F (TYPE I)
SINGLE METHOD ANALYSES

Form RLIMS63F-V1.4
10260518171298
Page 6

QUALITY CONTROL DATA SHEET
MATRIX SPIKE SAMPLE
MATRIX SPIKE DUPLICATE SAMPLE



Client Name.....: Cordilleran Compliance Services
Release Number.....: Not Provided

Matrix.....: WATER
Reporting Units.....: ug/L

DCL Sample Name....: 05E04224MS
Date Printed.....: 26-OCT-05 18:17

DCL Analysis Group: G059T00C
Analysis Method....: GASES
Instrument Type....: GC/FID
Instrument ID.....: GC16
Column Type.....: RT-U PLOT
 Primary
 Confirmation

DCL Preparation Group: Not Applicable
Date Prepared.....: 26-OCT-05 00:00
Preparation Method...: Not Applicable

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analyzed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
Methane	26-OCT-05 12:07	0.00	555.	568.	97.7		



DCL Sample Name....: 05E04224MSD

Analytical Results

Analyte	Date Analyzed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
Methane	26-OCT-05 12:18	591.	104.	573.	36.0	6.3		

DataChem Laboratories CHAIN-OF-CUSTODY

Earliest Sampling Date: 21-Oct-2005

Project/Job/Task: P059L003		Split:		Root Set ID: 05E-0581 *		Reporting Group		#	
Client: Cordilleran Compliance Services		Account: 08002		Methane in Water by RSKSOP175		01		Bottics	
Comments:									
Verified: <i>AS</i>									
Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2	Analysis		
21-Oct-2005	BM36-23CULV	05E04224			WATER		X		2

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY						SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY	
Relinquished By: (Signature)						Sample Prep/Analysis for: _____ Date/Time: _____	
Walk-in/ Room/Shelf/ Fridge			Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
<i>AS</i>			10/26/05 10:00 a.m.	<i>AS</i>	<i>AS</i>		
<i>AS</i>			10/26/05 7:00 p.m.	<i>AS</i>	<i>AS</i>		

Printed 10/24/2005 14:43

Check box if there is a continuation page

Form: C:\PCL\01-SWV2.30

*BL-237 544-1
QC 224 ms/ms D
6059T00C*

100-0581

11/17

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

Page 1 of 1

CLIENT INFORMATION

CLIENT Carrollton Conference
ADDRESS 555C Marshall St.
CITY Arvada STATE CO ZIP 80002
PHONE 303 337 2032 FAX 303 337 2037 E-MAIL info@evergreenanalytical.com

Evergreen Analytical Laboratory Inc.

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(877) 737-4521



Report Results by: ASA (Date)

Standard 2 working weeks

UST Analyses per Fee Schedule

- * Rush: less than 24 hrs, 150% 1 - 2 work days, 100% 3 - 5 work days, 50% 6 - 9 work days, 25%

*Subject to surcharge & exceptions noted in fee schedule.

REPORT BY MAIL FAX PDF EDD

REPORT CHROMATOGRAMS YES NO

REPORT TO (Name) James H...

INVOICE TO SMS

PROJECT I.D. E04243

P.O. # EAL QUOTE #

Sampler: (signature) (sign)

NOTE: Identify Known Hazards Below

SAMPLE IDENTIFICATION DATE SAMPLED TIME
B.M 36-23 COLV 10/21/05 1335

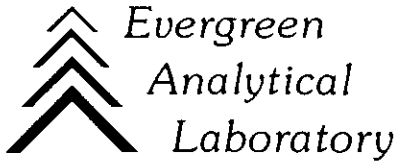
MATRIX	ANALYSES (check analysis)	For Laboratory use only
1) Drinking Water or 2) Discharge Water (circle one)	<input type="checkbox"/> TCLP VOA/BNA/Pest/Herb/Metals (circle)	W.O.# _____
Soil / Solid / Air / Gas	<input type="checkbox"/> Volatile Organics 8260/624 (circle)	B.O.F.# _____
No. of Containers	<input type="checkbox"/> Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle)	C/S (O) _____
	<input type="checkbox"/> Pesticides 8081/8270/608 (circle)	C/S (I) _____
	<input type="checkbox"/> PCBs/8082/608/screen (circle)	Cooler Temp. °C _____
	<input type="checkbox"/> Herbicides 8151	Seals Present Y / N / NA
	<input type="checkbox"/> BTEX 8021/602/8260/MTBE (circle)	Seals Intact Y / N
	<input type="checkbox"/> TPH 8015mod (Gasoline)	Samples Pres. Y / N / NA
	<input type="checkbox"/> TPH 8015mod (Diesel)	Headspace Y / N / NA
	<input type="checkbox"/> Total Metals-DW / NPDES / SW846 (circle & list metals below)	By: <u>USE 04224</u>
	<input type="checkbox"/> Dissolved Metals - DW / SW846 (circle & list metals below)	
	<input type="checkbox"/> TRPH 418.1, O&G 413.1, 1664 (circle)	
	<input type="checkbox"/> COD, NH ₃ , TOC, TP (circle)	
	<input type="checkbox"/> AIK, BOD, PH, TDS, TSS (circle)	

Does this analysis involve property transfer? Yes or No

Instructions: RELEASE RUSH!

** Important Note: See reverse side hereof for terms and conditions.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>(Signature)</u>	10/21/05 11:00	<u>Ryanne Olson</u>	10/21/05 11:00



December 28, 2005

James Hix
Cordilleran Compliance Services, Inc.
5550 Marshall Street
Arvada, CO 80002

Lab Work Order: 05-9374
Client Project ID: E04243

Dear James Hix:

Enclosed are the analytical results and invoice for the samples shown in the Laboratory Work Order Summary.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

A handwritten signature in cursive script that reads "Carl Smits".

Carl Smits
Technical Director of Chemical Analysis

WORK ORDER Summary Evergreen Analytical, Inc.

05-9374

Rpt To: James Hix
 Cordilleran Compliance Services, Inc.
 5550 Marshall Street
 Arvada, CO 80002
 (303) 237-2072
Fax To: James Hix
 FX: (303) 237-2659
Client Project ID: E04243
QC Level: LEVEL 1
 12/22/05 8:56:39 AM

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
05-9374-01A	GVS-SP1	Discharge Water	12/20/05 0855	12/21/05	8021_W**^	8021: BTEX, MIBE	1	1	12/27/05	12/27/05
05-9374-02A	EG-SP2	Groundwater	12/20/05 1000	12/21/05	8021_W**	8021: BTEX, MIBE	1	1	12/27/05	12/27/05
05-9374-03A	LH96-SP4	Groundwater	12/20/05 1025	12/21/05	8021_W**	8021: BTEX, MIBE	1	1	12/27/05	12/27/05

Definitions: * - Test Code has a Select List

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

CLIENT INFORMATION

CLIENT CORDILLERAN COMPLIANCE SERVICES, INC.
 ADDRESS 5550 MARSHALL ST.
 CITY ARVADA STATE CO ZIP 80002
 PHONE 303.237.2072 FAX 303.237.2659 E-mail _____

Evergreen Analytical Laboratory Inc.

4036 Youngfield St.
 Wheat Ridge, Colorado 80033
 (303) 425-6021
 FAX (303) 425-6854
 (877) 737-4521
 e-mail info@evergreenanalytical.com

Report Results by: _____ (Date)

Standard 2 working weeks

UST Analyses per Fee Schedule

* Rush: less than 24 hrs, 150% 1 - 2 work days, 100%

3 - 5 work days, 50% 6 - 9 work days, 25%

*Rush analysis subject to surcharge noted

REPORT BY MAIL FAX EMAIL EDD

REPORT CHROMATOGRAMS YES NO

REPORT TO (MP/MS) James Hix

INVOICE TO Same

PROJECT I.D. EO4243

P.O. # EAL QUOTE #

Sampler: (signature) (sig)

NOTE: Identify Known Hazards Below



SAMPLE DATE SAMPLED TIME

IDENTIFICATION SAMPLED TIME

GVS-SPI	12/20/05	0855	2	DW
EG-SP2	12/20/05	1000	2	GW
LH96-SPA	12/20/05	1025	2	GW

ANALYSES (check analysis)

<input type="checkbox"/>	Oil / Sludge / Wipe			
<input type="checkbox"/>	Soil / Solid / Air / Gas			
<input type="checkbox"/>	1) Drinking Water or 2) Discharge Water (circle one)			
<input type="checkbox"/>	TCLP VOA/BNA/Pest/Herb/Metals (circle)			
<input type="checkbox"/>	VOA 8260/624 (circle)			
<input type="checkbox"/>	BNA 8270/625 (circle)			
<input type="checkbox"/>	Pesticides 8081/8270/608 (circle)			
<input type="checkbox"/>	Pest/PCBs 8081/8082/608 (circle)			
<input type="checkbox"/>	PCB Screen 8082 mod.			
<input type="checkbox"/>	Herbicides 8151			
<input checked="" type="checkbox"/>	BTEX 8021/602/8260/MTBE (circle)	X	X	X
<input type="checkbox"/>	TPPH 8015mod. (Gasoline)			
<input type="checkbox"/>	TEPH 8015mod. (Diesel)			
<input type="checkbox"/>	Total Metals-DW / NPDES / SW846 (circle & list metals below)			
<input type="checkbox"/>	Dissolved Metals - DW / SW846 (circle & list metals below)			
<input type="checkbox"/>	Oil & Grease 413.1			
<input type="checkbox"/>	Oil & Grease 1664			
<input type="checkbox"/>	TRPH 418.1			

For Laboratory use only

W.O.# 05-9374
 B.O.F.# NA
 C/S (O) NA / NA
 C/S (I) CL / VAL
 Cooler Temp. °C 2
 Seals Present Y / N / NA
 Seals Intact Y / N
 Samples Pres. Y / 8 / NA
 Headspace Y / 10 / NA
 By ZZ

G1
 G2
 G3

Sample Fraction

Does this analysis involve property transfer? Yes or No

Instructions:

** Important Note: See reverse side hereof for terms and conditions.

Relinquished by: (Signature) <u>(signature)</u>	Date/Time <u>12/20/05</u> <u>1615</u>	Received by: (Signature) <u>(signature)</u>	Date/Time <u>12/20/05</u> <u>1615</u>
---	--	---	--

Evergreen Analytical, Inc.

Date: 22-Dec-05

Client Project ID: E04243

Lab Order: 05-9374

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2 °C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC sample(s) were marked as unpreserved on the bottle labels.

VOC sample(s) were received with no headspace present. JD

QUALITY ASSURANCE

Analyses performed on samples in this work order meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained.

CLIENT SERVICES

There are no anomalies to report. AMU

GAS CHROMATOGRAPHY

Method 8021_W: There are no anomalies to report. JM

Evergreen Analytical, Inc.
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
 (303) 425-6021

Client Sample ID: GVS-SP1
Client Project ID: E04243
Date Collected: 12/20/05
Date Received: 12/21/05

Lab Work Order: 05-9374
Lab Sample ID: 05-9374-01A
Sample Matrix: Discharge Water

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030A

Date Prepared: 12/21/05

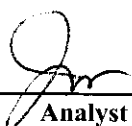
Lab File ID: TVB41221\021R

Dilution Factor: 1

Date Analyzed: 12/21/05

Method Blank: AB4122105

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	4.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	94	QC Limits: 44-166	%REC



 Analyst



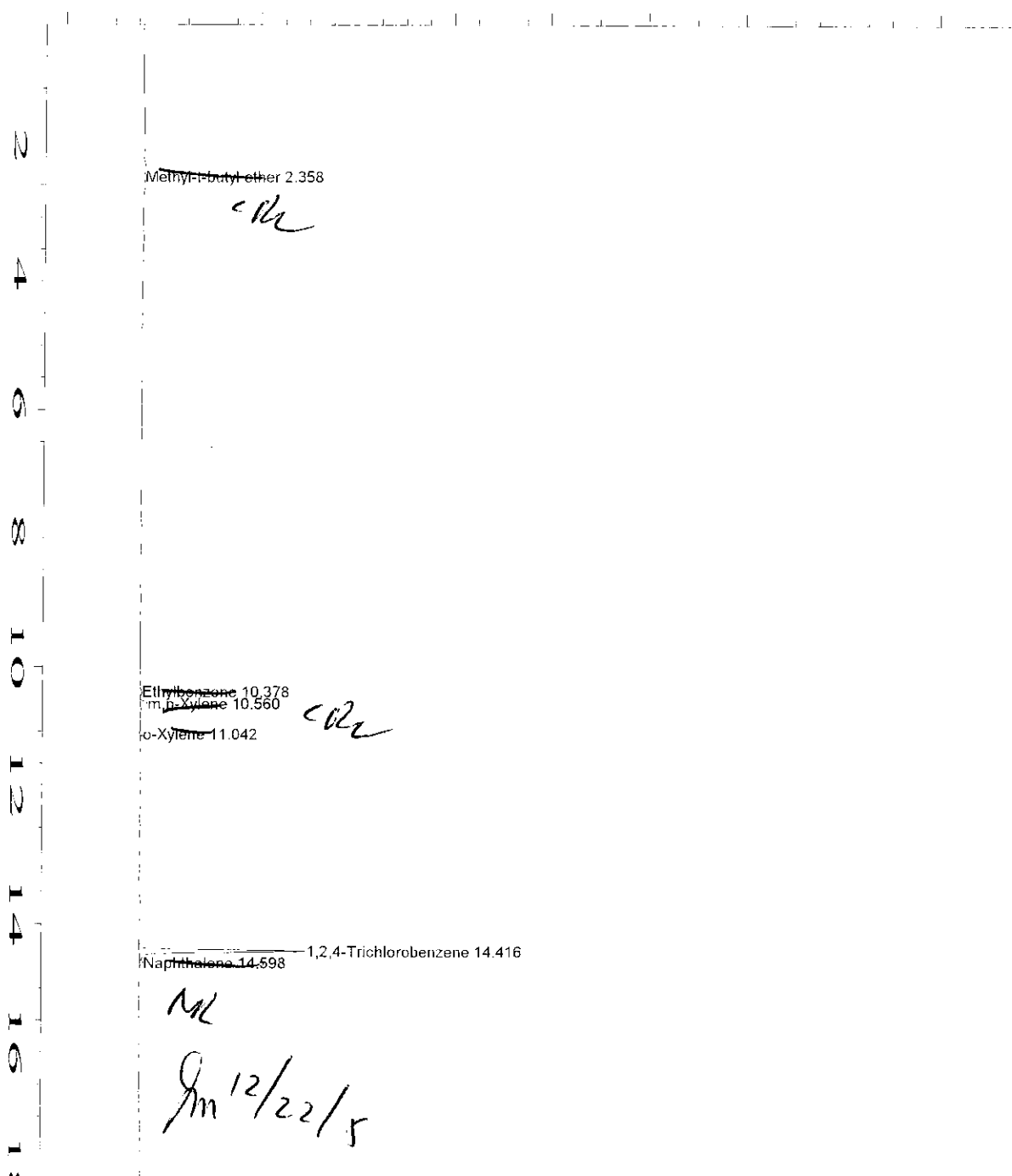
 Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
 E - Extrapolated value. Value exceeds calibration range
 H - Sample exceeded analytical holding time
 J - Indicates an estimated value when the compound is detected, but is below the LQL
 S - Spike Recovery outside accepted limits
 U - Compound analyzed for but not detected
 X - See case narrative
 * - Value exceeded the Maximum Contamination Level (MCL)

Definitions: LQL - Lower Quantitation Limit
 Surr - Surrogate

40000
 60000
 80000
 1.0e4
 1.2e4
 1.4e4
 1.6e4
 1.8e4
 2.0e4
 2.2e4



Data File Name : C:\HPCHEM\1\DATA\TVB41231\021R0101.D
 Operator : T.Ivancich Page Number : 1
 Instrument : TVHBTEX4 Vial Number : 21
 Sample Name : 05-9374-01A Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 21 Dec 05 11:52 PM Instrument Method: TS40519F.MTH
 Report Created on: 22 Dec 05 00:11 AM Analysis Method : BS41219.MTH
 Last Recalib on : 20 DEC 05 01:58 PM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : SAMP
 DF=1

Evergreen Analytical, Inc.
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: EG-SP2
Client Project ID: E04243
Date Collected: 12/20/05
Date Received: 12/21/05

Lab Work Order: 05-9374
Lab Sample ID: 05-9374-02A
Sample Matrix: Groundwater

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030A

Date Prepared: 12/21/05

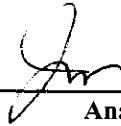
Lab File ID: TVB41221\026R

Dilution Factor: 1

Date Analyzed: 12/22/05

Method Blank: AB4122105

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	4.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	96	QC Limits: 44-166	%REC



Analyst



Approved

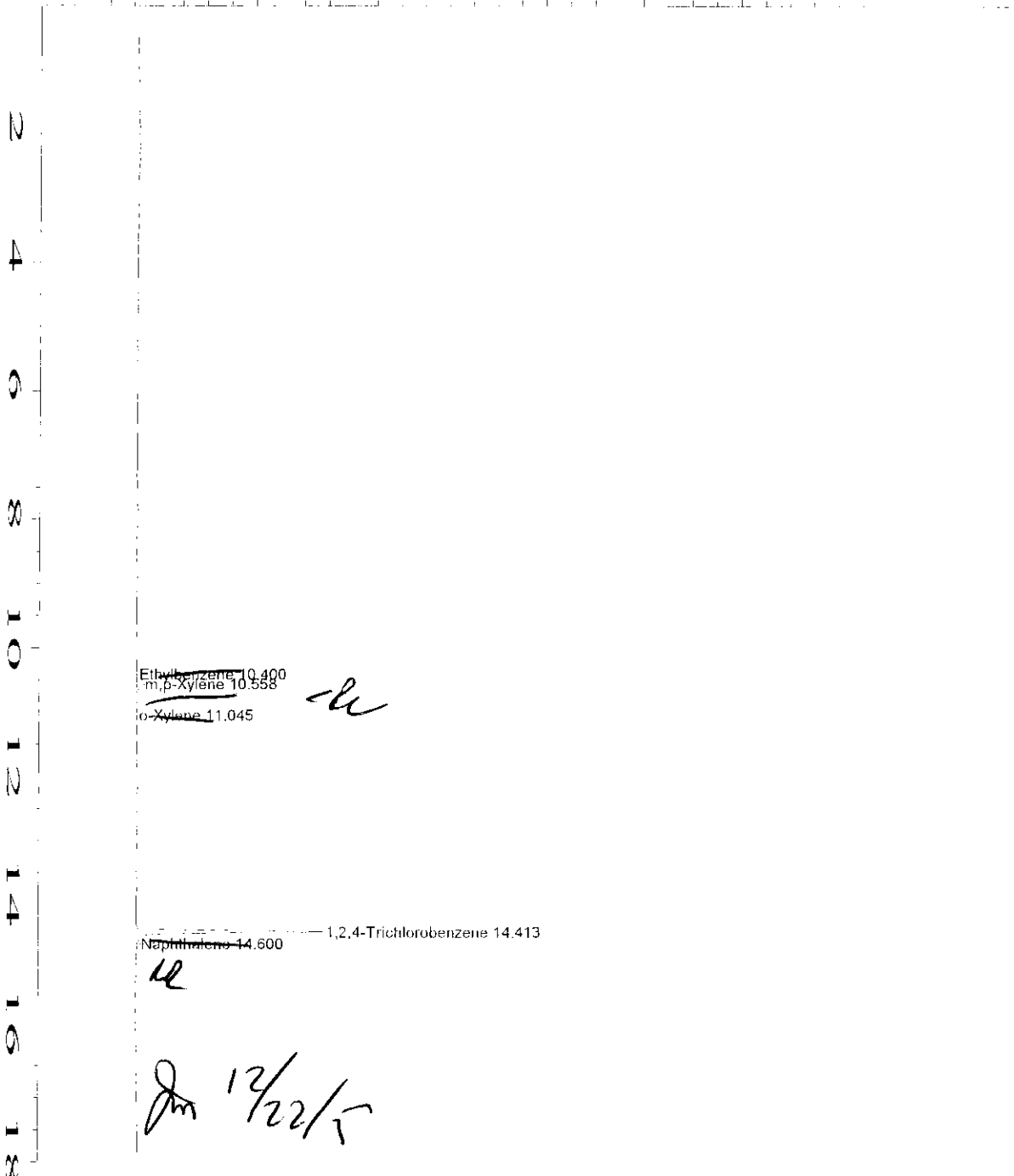
Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value. Value exceeds calibration range
H - Sample exceeded analytical holding time
J - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
X - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL)

Definitions: LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 12/22/05

40000
 60000
 80000
 1.0e4
 1.2e4
 1.4e4
 1.6e4
 1.8e4
 2.0e4
 2.2e4



Data File Name : C:\HPCHEM\1\DATA\TVB41221\026R0101.D
 Operator : T.Ivancich
 Instrument : TVHBTEX4
 Sample Name : 05-9374-02A
 Run Time Bar Code:
 Acquired on : 22 Dec 05 10:40 AM
 Report Created on: 22 Dec 05 10:58 AM
 Last Recalib on : 20 DEC 05 01:58 PM
 Multiplier : 1
 Sample Info : SAMP
 DF=1

Page Number : 1
 Vial Number : 26
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: TS40519F.MTH
 Analysis Method : BS41219.MTH
 Sample Amount : 0
 ISTD Amount :

Evergreen Analytical, Inc.
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
 (303) 425-6021

Client Sample ID: LH96-SP4
Client Project ID: E04243
Date Collected: 12/20/05
Date Received: 12/21/05

Lab Work Order: 05-9374
Lab Sample ID: 05-9374-03A
Sample Matrix: Groundwater

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030A

Date Prepared: 12/21/05


Lab File ID: TVB41221\027R

Dilution Factor: 1

Date Analyzed: 12/22/05

Method Blank: AB4122105

Analytes	CAS Number	Result	LQL	Units
Methyl-t-butyl ether	1634-04-4	U	4.0	µg/L
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	96	QC Limits: 44-166	%REC



Analyst



Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
 E - Extrapolated value. Value exceeds calibration range
 H - Sample exceeded analytical holding time
 J - Indicates an estimated value when the compound is detected, but is below the LQL
 S - Spike Recovery outside accepted limits
 U - Compound analyzed for but not detected
 X - See case narrative
 * - Value exceeded the Maximum Contamination Level (MCL)

Definitions: LQL - Lower Quantitation Limit
 Surr - Surrogate

Print Date: 12/22/05

2.204
 2.004
 1.804
 1.604
 1.404
 1.204
 1.004
 8000
 6000
 4000

2
4
6
8
10
12
14
16
18

~~Ethylbenzene 10.395~~
~~m-Xylene 10.562~~
 o-Xylene 11.048 *LR*

~~1,2,4-Trichlorobenzene 14.802~~ 1,2,4-Trichlorobenzene 14.415
NR

Jm 12/22/05

Data File Name : C:\HPCHEM\1\DATA\TVB41221\027R0101.D
 Operator : T.Ivancich Page Number : 1
 Instrument : TVHBTEX4 Vial Number : 27
 Sample Name : 05-9374-03A Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 22 Dec 05 11:16 AM Instrument Method: TS40519F.MTH
 Report Created on: 22 Dec 05 11:35 AM Analysis Method : BS41219.MTH
 Last Recalib on : 20 DEC 05 01:58 PM Sample Amount : 0
 Multiplier : 1 ISTD Amount :
 Sample Info : SAMP
 DF=1

Work Order: 05-9374
 Client Project ID: E04243

ANALYTICAL QC SUMMARY REPORT

BatchID: R21423

Sample ID: AB4122105	SampType: MBLK	TestCode: 8021_A	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L						
Batch ID: R21423	TestNo: SW8021B	FileID: TVB412211009R	Analysis Date: 12/21/05	SeqNo: 393583							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	0	5.0									
Benzene	0	1.0									
Toluene	0	2.0									
Ethylbenzene	0	2.0									
m,p-Xylene	0	2.0									
o-Xylene	0	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	128.6	0	100	0	129	44	147	0	0	0	

Sample ID: LCS4122105	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L						
Batch ID: R21423	TestNo: SW8021B	FileID: TVB412211010R	Analysis Date: 12/21/05	SeqNo: 393584							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	56.28	4.0	51.2	0	110	70	130	0	0	0	
Benzene	24.91	1.0	32.8	0	75.9	70	130	0	0	0	
Toluene	178	2.0	165.6	0	108	70	130	0	0	0	
Ethylbenzene	38.23	2.0	38.8	0	98.5	70	138	0	0	0	
m,p-Xylene	145.1	2.0	136	0	107	70	130	0	0	0	
o-Xylene	59.64	2.0	54.8	0	109	70	137	0	0	0	
Surr: 1,2,4-Trichlorobenzene (S)	150.9	0	100	0	151	44	166	0	0	0	

Sample ID: LCSD4122105	SampType: LCSD	TestCode: 8021_W	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L						
Batch ID: R21423	TestNo: SW8021B	FileID: TVB412211011R	Analysis Date: 12/21/05	SeqNo: 393585							
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl-t-butyl ether	54.95	4.0	51.2	0	107	70	130	56.28	2.40	30	
Benzene	24.75	1.0	32.8	0	75.4	70	130	24.91	0.653	30	
Toluene	177.1	2.0	165.6	0	107	70	130	178	0.525	30	
Ethylbenzene	37.78	2.0	38.8	0	97.4	70	138	38.23	1.17	39	
m,p-Xylene	143.7	2.0	136	0	106	70	130	145.1	0.966	30	
o-Xylene	58.34	2.0	54.8	0	106	70	137	59.64	2.19	30	

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 H - Sample exceeded analytical holding time

Work Order: 05-9374
 Client Project ID: E04243

ANALYTICAL QC SUMMARY REPORT

BatchID: R21423

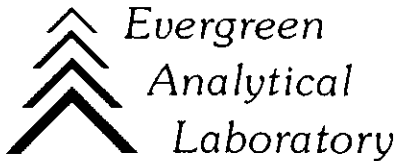
Sample ID: LCSD4122105	SampType: LCSD	TestCode: 8021_W	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L
Batch ID: R21423	TestNo: SW8021B	LQL	SPK value	SPK Ref Val	SeqNo: 393585
Analyte	Result	LQL	SPK value	SPK Ref Val	Qual
Surr: 1,2,4-Trichlorobenzene (S)	145.7	0	100	0	0
				166	0
				44	0
				146	0
				146	0

Sample ID: 05-9374-01AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L
Client ID: GVS-SP1	Batch ID: R21423	TestNo: SW8021B	FileID: TVB41221022R	Analysis Date: 12/22/05	SeqNo: 393650
Analyte	Result	LQL	SPK value	SPK Ref Val	Qual
Methyl-t-butyl ether	50.32	4.0	51.2	0	0
Benzene	24.21	1.0	32.8	0	0
Toluene	173.3	2.0	165.6	0	0
Ethylbenzene	36.67	2.0	38.8	0	0
m,p-Xylene	138.7	2.0	136	0	0
o-Xylene	57.39	2.0	54.8	0	0
Surr: 1,2,4-Trichlorobenzene (S)	143.2	0	100	0	0
				143	0
				70	0
				70	0
				130	0
				130	0
				145	0
				130	0
				144	0
				166	0

Sample ID: 05-9374-01AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX4_051221A	Prep Date: 12/21/05	Units: µg/L
Client ID: GVS-SP1	Batch ID: R21423	TestNo: SW8021B	FileID: TVB41221023R	Analysis Date: 12/22/05	SeqNo: 393651
Analyte	Result	LQL	SPK value	SPK Ref Val	Qual
Methyl-t-butyl ether	52.39	4.0	51.2	0	30
Benzene	24.4	1.0	32.8	0	30
Toluene	171.5	2.0	165.6	0	30
Ethylbenzene	36.18	2.0	38.8	0	30
m,p-Xylene	136.9	2.0	136	0	30
o-Xylene	56.91	2.0	54.8	0	30
Surr: 1,2,4-Trichlorobenzene (S)	142.9	0	100	0	0
				143	0
				70	0
				70	0
				130	0
				130	0
				145	0
				130	0
				144	0
				166	0

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 H - Sample exceeded analytical holding time



December 30, 2005

James Hix
Cordilleran Compliance Services, Inc.
5550 Marshall Street
Arvada, CO 80002

Lab Work Order: 05-9448
Client Project ID: EO4243

Dear James Hix:

Enclosed are the analytical results and invoice for the samples shown in the Laboratory Work Order Summary.


The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,


Carl Smits
Technical Director of Chemical Analysis

WORK ORDER SUMMARY **Evergreen Analytical, Inc.**

05-9448

Rpt To: James Hix

Fax To: James Hix

FX: (303) 237-2659

Cordilleran Compliance Services, Inc.

5550 Marshall Street

Arvada, CO 80002

(303) 237-2072

12/23/05 9:22:04 AM

Client Project ID: EO4243

QC Level: Level 1

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold MS	Date Due	Hold Time
05-9448-01A	PW-W7	Groundwater	12/22/05 0836	12/23/05	8021_W *	8021: BTEX		12/29/05	12/29/05

Definitions: * - Test Code has a Select List

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

CLIENT INFORMATION

CLIENT Cordillean Compliance Services
 ADDRESS 5550 Marshall St
 CITY Arvada STATE CO ZIP 80002
 PHONE 303.237.2072 FAX 303.237.2689 E-mail _____

Evergreen Analytical Laboratory Inc.

4036 Youngfield St.
 Wheat Ridge, Colorado 80033
 (303) 425-6021
 FAX (303) 425-6854
 (877) 737-4521
 e-mail info@evergreenanalytical.com

Report Results by: _____ (Date)*

Standard 2 working weeks

UST Analyses per Fee Schedule

* Rush: less than 24 hrs, 150%

3 - 5 work days, 50%

6 - 9 work days, 25%

* Subject to surcharge & exceptions noted in fee schedule.

REPORT BY MAIL FAX PDF EDD

REPORT CHROMATOGRAMS YES NO

REPORT TO (M)Ms James Hix

INVOICE TO Same

PROJECT I.D. E04243

P.O. # _____ EAL QUOTE # _____

Sampler: [Signature] (sign)

NOTE: Identify Known Hazards Below

■■■■■■■■■■

SAMPLE IDENTIFICATION DATE SAMPLED TIME

PW-WT 12/22/05 0836

MATRIX		ANALYSES (check analysis)													For Laboratory Use Only									
1) Drinking Water or 2) Discharge Water or 3) Ground Water (circle one)		No. of Containers	W.O. #	B.O.F #	C/S (O)	C/S (I)	Cooler Temp. °C	Seals Pressure	Seals Intact	Samples Pres	Headspace Y	By	W.O. #	B.O.F #	C/S (O)	C/S (I)	Cooler Temp. °C	Seals Pressure	Seals Intact	Samples Pres	Headspace Y	By		
Soil / Solid / Air / Gas		2	05-448										05-448											
Oil / Sludge / Wipe																								
TCLP VOA/BNA/Pest/Herb/Metals (circle)																								
Volatile Organics 8260/624 (circle)																								
Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle)																								
Chlorinated Pesticides 8081/608 (circle)																								
Organophosphorus Pesticides 8270																								
PCBs/8082/608/screen (circle)																								
Herbicides 8151																								
BTX 8021 602/8260/MTBE (circle)																								
TPH 8015mod. (Gasoline)																								
TEPH 8015mod. (Diesel)																								
Total Metals-DW / NPDES / SW846 (circle & list metals below)																								
Dissolved Metals - DW / SW846 (circle & list metals below)																								
Oil & Grease 413.1/1664 (circle)																								
TRPH 418.1																								
Alk. BOD (circle)																								
COD, TOC (circle)																								
PH, TDS, TSS (circle)																								
NH ₃ , TP (circle)																								
Sample Fraction																								

Does this analysis involve property transfer? Yes or No

Instructions:

** Important Note: See reverse side hereof for terms and conditions.

Relinquished by: (Signature) <u>[Signature]</u>	Relinquished by: (Signature) <u>[Signature]</u>	Date/Time 12/22/05 1630	Date/Time 11/23/05 802
--	--	----------------------------	---------------------------

Client Project ID: EO4243

Lab Order: 05-9448

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2 °C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC sample(s) were marked as preserved on the bottle labels.

VOC sample(s) were received with no headspace present. JD

QUALITY ASSURANCE

Analyses performed on samples in this work order meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. CMS

CLIENT SERVICES

There are no anomalies to report. SG

GAS CHROMATOGRAPHY

Method 8021_W: There are no anomalies to report. TMI

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862
(303) 425-6021

Client Sample ID: PW-W7
Client Project ID: EO4243
Date Collected: 12/22/05
Date Received: 12/23/05

Lab Work Order: 05-9448
Lab Sample ID: 05-9448-01A
Sample Matrix: Groundwater

AROMATIC VOLATILE ORGANICS

Method: SW8021B

Prep Method: SW5030A

Date Prepared: 12/22/05

Lab File ID: TVB21222\052R

Dilution Factor: 1

Date Analyzed: 12/23/05

Method Blank: MB2122205-B

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	113	QC Limits: 44-166	%REC



Analyst

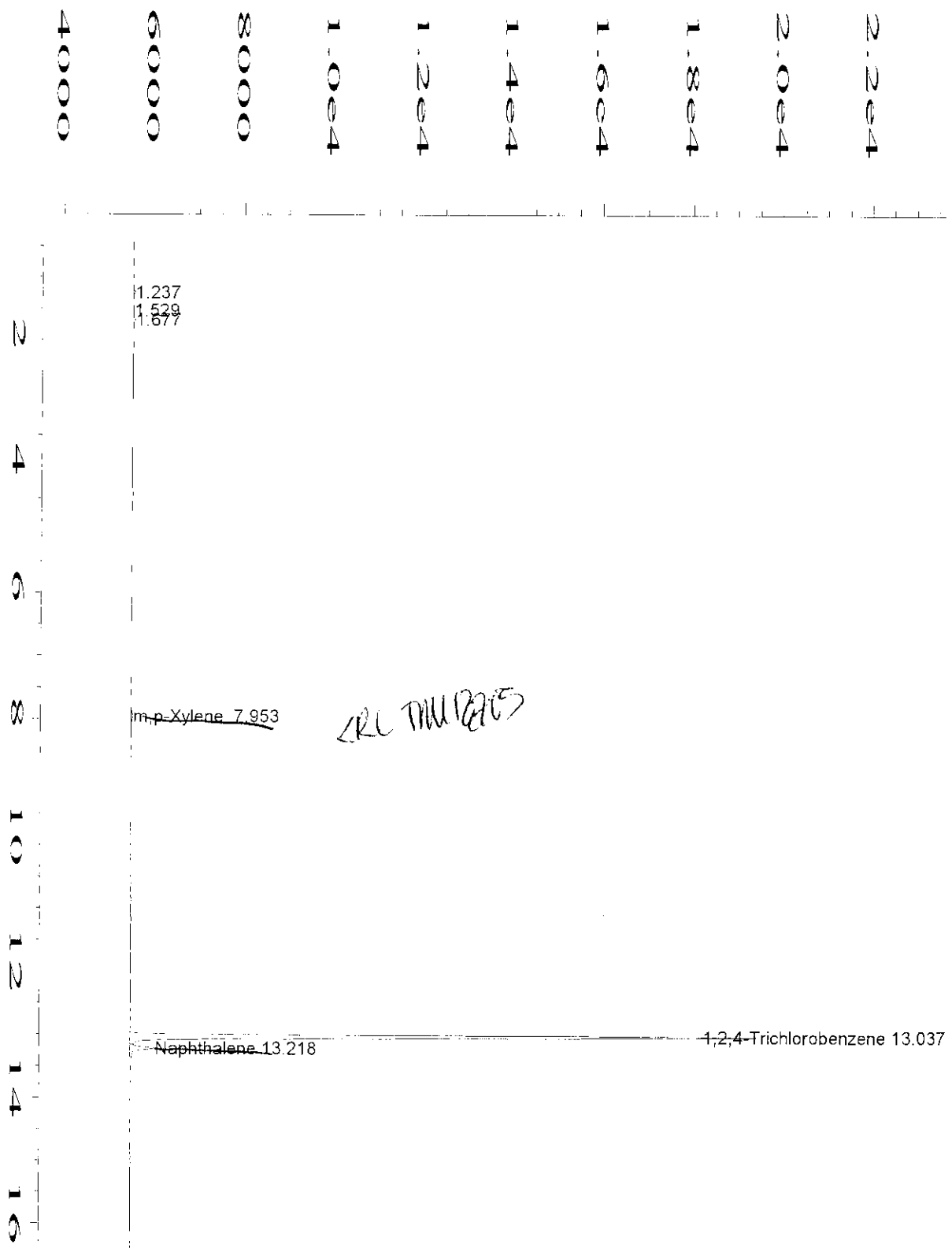


Approved

Notes: Total Xylenes consist of three isomers, two of which co-elute. The Xylene RI is for a single peak. Confirmation analysis was not performed.

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
E - Extrapolated value, Value exceeds calibration range
H - Sample exceeded analytical holding time
J - Indicates an estimated value when the compound is detected, but is below the LQL
S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected
N - See case narrative
* - Value exceeded the Maximum Contamination Level (MCL)

Definitions: LQL - Lower Quantitation Limit
Surr - Surrogate



Data File Name : C:\HPCHEM\2\DATA\TVB21222\052R0101.D
 Operator : J MELSON
 Instrument : TVHBTEX2
 Sample Name : 05-9448-01A
 Run Time Bar Code:
 Acquired on : 23 Dec 05 05:32 PM
 Report Created on: 23 Dec 05 05:50 PM
 Last Recalib on : 20 DEC 05 10:04 AM
 Multiplier : 1
 Sample Info : SAMP
 DF=1

Page Number : 1
 Vial Number : 52
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: TW21027.MTH
 Analysis Method : BW21219.MTH
 Sample Amount : 0
 ISTD Amount :

Work Order: 05-9448
 Client Project ID: EO4243

ANALYTICAL QC SUMMARY REPORT

BatchID: R21456-B

Sample ID: MB2122205-B	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTX2_051222A	Prep Date: 12/22/05	Units: µg/L						
Batch ID: R21456-B	TestNo: SW8021B	FileID: TVB212221033R		Analysis Date: 12/23/05	SeqNo 394058						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	110.2	0	100	0	110	44	166	0	0		

Sample ID: LCS2122205-B	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTX2_051222A	Prep Date: 12/22/05	Units: µg/L						
Batch ID: R21456-B	TestNo: SW8021B	FileID: TVB212221034R		Analysis Date: 12/23/05	SeqNo 394059						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	29.34	1.0	32.8	0	89.5	70	130	0	0		
Toluene	188.2	2.0	165.6	0	114	70	130	0	0		
Ethylbenzene	35.96	2.0	36.8	0	92.7	70	138	0	0		
m,p-Xylene	139.2	2.0	136	0	102	70	130	0	0		
o-Xylene	57.8	2.0	54.8	0	105	70	137	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	120.3	0	100	0	120	44	166	0	0		

Sample ID: LCS2122205-B	SampType: LCSD	TestCode: 8021_W	Run ID: TVHBTX2_051222A	Prep Date: 12/22/05	Units: µg/L						
Batch ID: R21456-B	TestNo: SW8021B	FileID: TVB212221035R		Analysis Date: 12/23/05	SeqNo 394060						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	29.34	1.0	32.8	0	89.4	70	130	29.34	0.0170	30	
Toluene	190	2.0	165.6	0	115	70	130	188.2	0.980	30	
Ethylbenzene	36.36	2.0	38.8	0	93.7	70	138	35.96	1.10	39	
m,p-Xylene	140.5	2.0	136	0	103	70	130	139.2	0.941	30	
o-Xylene	58.28	2.0	54.8	0	106	70	137	57.8	0.827	30	
Surr: 1,2,4-Trichlorobenzene (S)	118.9	0	100	0	119	44	166	0	0	0	

Qualifiers:
 ND - Not Detected at the Reporting Limit
 L - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 H - Sample exceeded analytical holding time

Work Order: 05-9448
 Client Project ID: EO4243

ANALYTICAL QC SUMMARY REPORT

Batch ID: R21456-B

Sample ID: 05-9422-02AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTX2_051222A	Prep Date: 12/22/05	Units: µg/L	SeqNo: 394329					
Batch ID: R21456-B	TestNo: SW8021B	FileID: TVB212221047R	Analysis Date: 12/23/05	%RPD	RPDLimit	Qual					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	197.7	5.0	164	0	121	70	132	0	0	0	
Toluene	965.6	10	828	0	117	70	130	0	0	0	
Ethylbenzene	183.6	10	194	0	94.6	70	145	0	0	0	
m,p-Xylene	713	10	680	0	105	70	130	0	0	0	
o-Xylene	295.2	10	274	0	108	70	144	0	0	0	
Surr: 1,2,4-Trichlorobenzene (S)	605.1	0	500	0	121	44	166	0	0	0	

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 H - Sample exceeded analytical holding time