



Remediation #4632

GROUNDWATER MONITORING REPORT AND NO FURTHER ACTION REQUEST JANUARY 2011

COLLINS 14-20 TANK BATTERY

On December 16, 2010, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc. (Noble), at the Collins 14-20 Tank Battery (Site). The December 2010 sampling event constitutes the fourth post remediation performance monitoring event at the Site. Site history, assessment, and prior remediation activities have been described in preceding reports. A Site Map is presented as Figure 1.

Depth to groundwater, which ranged from 15.91 feet below top of casing (btoc) in SB14-R to 19.55 feet btoc in SB08, was used to calculate well-specific purge volumes. Following purging, samples were collected and submitted to Summit Scientific, Inc. of Golden, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260B.

Analytical results indicate BTEX concentrations are in compliance with Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (WQCC Reg 41).

This groundwater sampling event constitutes the fourth consecutive quarter in which all analytical results are in compliance with WQCC Reg 41. LTE, on behalf of Noble, respectfully requests that the Colorado Oil and Gas Conservation Commission grant a No Further Action condition for the Collins 14-20 Tank Battery.

TABLE

TABLE 1
GROUNDWATER ANALYTICAL DATA
COLLINS 14-20 TANK BATTERY
ADAMS COUNTY, COLORADO
NOBLE ENERGY, INC.

MONITORING WELL	DATE	DEPTH TO WATER (feet btoc)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	TOTAL XYLENES (ug/L)
SB08	10/29/2008	22.56	<1.0	<1.0	<1.0	<3.0
	2/17/2009	22.49	<1.0	<1.0	<1.0	<3.0
	2/27/2009	22.71	<1.0	<1.0	<1.0	<3.0
	7/1/2009	22.63	<1.0	<1.0	<1.0	<3.0
	9/21/2009	21.03	<1.0	<1.0	<1.0	<3.0
	12/8/2009	19.52	<1.0	<1.0	<1.0	<3.0
	3/3/2010	20.84	<1.0	<1.0	<1.0	<3.0
	4/14/2010	20.95	<1.0	<1.0	<1.0	<1.0
	6/18/2010	-	<1.0	<1.0	<1.0	<1.0
	9/30/2010	19.83	<1.0	<1.0	<1.0	<3.0
	12/16/2010	19.55	<1.0	<1.0	<1.0	<1.0
SB09	11/5/2008	19.65	<1.0	<1.0	<1.0	<3.0
	2/17/2009	21.95	<1.0	<1.0	<1.0	<3.0
	2/27/2009	22.04	<1.0	<1.0	<1.0	<3.0
	7/1/2009	22.11	<1.0	<1.0	<1.0	<3.0
	9/21/2009	20.05	<1.0	<1.0	<1.0	<3.0
	12/8/2009	19.89	<1.0	<1.0	<1.0	<3.0
	3/3/2010	19.27	<1.0	<1.0	<1.0	<3.0
	4/14/2010	20.55	<1.0	<1.0	<1.0	<1.0
	6/18/2010	-	<1.0	<1.0	<1.0	<1.0
	9/30/2010	19.41	<1.0	<1.0	<1.0	<3.0
	12/16/2010	19.12	<1.0	<1.0	<1.0	<1.0
SB11	2/17/2009	20.70	<1.0	<1.0	<1.0	<3.0
	2/27/2009	21.07	<1.0	<1.0	<1.0	<3.0
	7/1/2009	20.98	1.36	<1.0	<1.0	<3.0
	9/21/2009	19.70	<1.0	<1.0	<1.0	<3.0
	12/8/2009	18.79	<1.0	<1.0	<1.0	<3.0
	3/3/2010	19.11	<1.0	<1.0	<1.0	<3.0
	4/14/2010	19.35	<1.0	<1.0	<1.0	<1.0
	6/18/2010	-	<1.0	<1.0	<1.0	<1.0
	9/30/2010	18.26	<1.0	<1.0	<1.0	<3.0
	12/16/2010	17.93	<1.0	<1.0	<1.0	<1.0
SB12	2/17/2009	20.45	<1.0	<1.0	1.32	<3.0
	2/27/2009	20.78	<1.0	<1.0	<1.0	<3.0
	7/1/2009	20.70	<1.0	<1.0	<1.0	<3.0
	9/21/2009	19.85	<1.0	<1.0	<1.0	<3.0
	12/8/2009	18.59	<1.0	<1.0	<1.0	<3.0
	3/3/2010	18.94	<1.0	<1.0	<1.0	<3.0
	4/14/2010	19.10	<1.0	<1.0	<1.0	<1.0
	6/18/2010	-	<1.0	<1.0	<1.0	<1.0
	9/30/2010	17.95	<1.0	<1.0	<1.0	<3.0
	12/16/2010	17.78	<1.0	<1.0	<1.0	<1.0
SB13	2/27/2009	21.27	2.18	16.3	182	1,037
	7/1/2009	21.31	14.2	66.4	218	1,517
	9/21/2009	19.34	1.92	7.67	<1.0	521
	12/8/2009	19.18	<1.0	15.0	37.8	384.0
	3/3/2010	19.46	<1.0	12.7	86.1	700
	4/14/2010	19.65	<1.0	11.9	37.0	280
	6/18/2010	-	<1.0	<1.0	<1.0	5
	9/30/2010	18.52	<1.0	<1.0	<1.0	20.54
	12/16/2010	18.20	<1.0	12	45	560
SB14 SB14-R	2/27/2009	19.71	17.9	486	240	2,335
	7/1/2009	20.77	2.5	<1.0	4.59	74.8
	9/21/2009	19.68	<1.0	<1.0	1.46	3.18
	12/8/2009	18.61	14.3	388	298	3,107
	3/3/2010	18.88	14.5	149	247	2,540
	4/14/2010	19.55	<1.0	<1.0	<1.0	<1.0
	6/18/2010	-	<1.0	<1.0	<1.0	<1.0
	9/30/2010	16.26	<1.0	<1.0	<1.0	<1.0
	12/16/2010	15.91	<1.0	<1.0	<1.0	<1.0
CDPHE WQCC Reg 41			5.0	560	700	1,400

NOTES:

btoc - below top of casing

ug/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Bold - indicates concentration exceeds CDPHE WQCC Reg 41

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment - Water Quality Control

Commission Regulation 41 covering Basic Standards for Groundwater

FIGURE

SB11

SB09

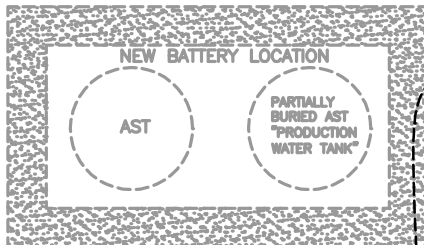
SEPARATOR

ABOVE GROUND PIPING
ACCESS POINTS

SB12




SB14

SB13



SB08

LEGEND

- SB08  MONITORING WELL LOCATION
-  BERM
-  EXTENT OF EXCAVATION
- AST ABOVEGROUND STORAGE TANK



0 5 10 20
FEET

FIGURE 1
SITE MAP
COLLINS 14-20 TANK BATTERY
ADAMS COUNTY, COLORADO
NOBLE ENERGY, INC.



5/09\NEP083506

APPENDIX A
ANALYTICAL REPORTS

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 22, 2010

Steve Kahn
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - Collins 14-20

Enclosed are the results of analyses for samples received by Summit Scientific on 12/16/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'PS' followed by a long, sweeping horizontal line.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB08	R012122-01	Water	12/16/10 13:15	12/16/10 17:00
SB09	R012122-02	Water	12/16/10 13:20	12/16/10 17:00
SB11	R012122-03	Water	12/16/10 13:25	12/16/10 17:00
SB12	R012122-04	Water	12/16/10 13:30	12/16/10 17:00
SB13	R012122-05	Water	12/16/10 13:35	12/16/10 17:00
SB14	R012122-06	Water	12/16/10 13:40	12/16/10 17:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

Summit Scientific 2017/22

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page _____ of _____

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name:

Project Manager:

E-Mail:

Project Name:

Project Number:

Project Manager: S. Khan

E-Mail: SKhanna@tqintl.com

Project Name: Collins 14-20

Project Number: NLP0835

[illegible]

www.s2scientific.com

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB08
R012122-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/16/10 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.8 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		92.1 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	80.8-120		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB09
R012122-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/16/10 13:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		105 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.2 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %		80.8-120		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB11
R012122-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/16/10 13:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		89.0 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	80.8-120		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB12
R012122-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/16/10 13:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		92.8 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %		80.8-120		"	"	"	"	

Summit Scientific

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4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB13
R012122-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	12	1.0	"	"	"	"	"	"	
Ethylbenzene	45	1.0	"	"	"	"	"	"	
Xylenes (total)	560	1.0	"	"	"	"	"	"	

Date Sampled: 12/16/10 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		106 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	80.8-120		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

SB14
R012122-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/16/10 13:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	0122106	12/21/10	12/22/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/16/10 13:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		103 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80.8-120		"	"	"	"	

Summit Scientific

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4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20
Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0122106 - EPA 5030 Water MS

Blank (0122106-BLK1)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3	105	57.9-139				
Surrogate: Toluene-d8	13.6		"	13.3	102	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3	102	80.8-120				

Blank (0122106-BLK2)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3	101	57.9-139				
Surrogate: Toluene-d8	12.5		"	13.3	93.5	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3	95.6	80.8-120				

LCS (0122106-BS1)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	29.6	1.0	ug/l	33.3	88.7	60.1-131			10.9	
Toluene	28.2	1.0	"	33.3	84.8	65.9-127			11.3	
Ethylbenzene	31.4	1.0	"	33.3	94.3	65.1-129			20	
m,p-Xylene	57.1	2.0	"	66.7	85.6	66.8-127			20	
o-Xylene	31.5	1.0	"	33.3	94.5	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3	100	57.9-139				
Surrogate: Toluene-d8	12.6		"	13.3	94.7	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3	93.7	80.8-120				

LCS (0122106-BS2)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	30.3	1.0	ug/l	33.3	91.0	60.1-131			10.9	
Toluene	29.8	1.0	"	33.3	89.3	65.9-127			11.3	
Ethylbenzene	30.9	1.0	"	33.3	92.8	65.1-129			20	
m,p-Xylene	57.4	2.0	"	66.7	86.1	66.8-127			20	
o-Xylene	30.9	1.0	"	33.3	92.6	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3	105	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	98.6	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3	93.7	80.8-120				

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0122106 - EPA 5030 Water MS

LCS Dup (0122106-BSD1)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	28.4	1.0	ug/l	33.3		85.3	60.1-131	3.90	10.9	
Toluene	27.9	1.0	"	33.3		83.7	65.9-127	1.21	11.3	
Ethylbenzene	29.1	1.0	"	33.3		87.2	65.1-129	7.84	20	
m,p-Xylene	53.6	2.0	"	66.7		80.5	66.8-127	6.23	20	
o-Xylene	29.3	1.0	"	33.3		87.8	61.2-120	7.37	20	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	80.8-120			

LCS Dup (0122106-BSD2)

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	28.7	1.0	ug/l	33.3		86.2	60.1-131	5.49	10.9	
Toluene	28.5	1.0	"	33.3		85.5	65.9-127	4.39	11.3	
Ethylbenzene	29.8	1.0	"	33.3		89.4	65.1-129	3.72	20	
m,p-Xylene	54.7	2.0	"	66.7		82.1	66.8-127	4.80	20	
o-Xylene	30.3	1.0	"	33.3		91.0	61.2-120	1.73	20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		105	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.6	80.8-120			

Matrix Spike (0122106-MS1)

Source: R012122-01

Prepared: 12/21/10 Analyzed: 12/22/10

Benzene	30.9	1.0	ug/l	33.3	ND	92.7	52.7-130		19.3	
Toluene	30.3	1.0	"	33.3	ND	91.0	57-127		18.7	
Ethylbenzene	33.0	1.0	"	33.3	ND	98.9	59.2-127		20	
m,p-Xylene	60.1	2.0	"	66.7	ND	90.2	53.2-132		20	
o-Xylene	33.0	1.0	"	33.3	ND	99.2	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	57.9-139			
Surrogate: Toluene-d8	12.7		"	13.3		95.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.1	80.8-120			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Collins 14-20

Project Number: NEP 0835
Project Manager: Steve Kahn

Reported:
12/22/10 13:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0122106 - EPA 5030 Water MS

Matrix Spike (0122106-MS2)		Source: R012122-02			Prepared: 12/21/10		Analyzed: 12/22/10			
Benzene	31.0	1.0	ug/l	33.3	ND	93.0	52.7-130		19.3	
Toluene	31.3	1.0	"	33.3	ND	94.0	57-127		18.7	
Ethylbenzene	32.2	1.0	"	33.3	ND	96.6	59.2-127		20	
m,p-Xylene	60.7	2.0	"	66.7	ND	91.0	53.2-132		20	
o-Xylene	33.7	1.0	"	33.3	ND	101	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103	57.9-139			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	80.8-120			

Matrix Spike Dup (0122106-MSD1)		Source: R012122-01			Prepared: 12/21/10		Analyzed: 12/22/10			
Benzene	32.3	1.0	ug/l	33.3	ND	96.9	52.7-130	4.37	19.3	
Toluene	30.9	1.0	"	33.3	ND	92.7	57-127	1.86	18.7	
Ethylbenzene	33.6	1.0	"	33.3	ND	101	59.2-127	1.89	20	
m,p-Xylene	63.3	2.0	"	66.7	ND	94.9	53.2-132	5.11	20	
o-Xylene	33.5	1.0	"	33.3	ND	101	56.3-117	1.44	20	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	57.9-139			
Surrogate: Toluene-d8	13.3		"	13.3		100	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.8	80.8-120			

Matrix Spike Dup (0122106-MSD2)		Source: R012122-02			Prepared: 12/21/10		Analyzed: 12/22/10			
Benzene	33.9	1.0	ug/l	33.3	ND	102	52.7-130	8.97	19.3	
Toluene	33.6	1.0	"	33.3	ND	101	57-127	6.87	18.7	
Ethylbenzene	32.8	1.0	"	33.3	ND	98.3	59.2-127	1.72	20	
m,p-Xylene	60.8	2.0	"	66.7	ND	91.2	53.2-132	0.263	20	
o-Xylene	33.4	1.0	"	33.3	ND	100	56.3-117	1.13	20	
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	57.9-139			
Surrogate: Toluene-d8	13.7		"	13.3		103	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3	80.8-120			

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12/22/10 13:49

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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A handwritten signature in black ink, appearing to be 'SM' followed by a long horizontal stroke.

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