

FORM
27
Rev 6/99



01761160

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY
RECEIVED

JAN 07 2011

COGCC

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No: Rem # 4935

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe):

GENERAL INFORMATION

OGCC Operator Number: <u>69175</u>		Contact Name and Telephone	
Name of Operator: <u>Petroleum Development Corporation</u>		Name: <u>Randall Ferguson</u>	
Address: <u>1775 Sherman Street, Suite 3000</u>		No: <u>(303) 860-5800</u>	
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80203</u>		Fax: <u>(303) 860-5838</u>	
API/Facility No: <u>05-123-21748</u>	County: <u>Weld</u>		
Facility Name: <u>B. Johnson</u>	Facility Number: <u>11, 12-11</u>		
Well Name: <u>B. Johnson</u>	Well Number: <u>11-11</u>		
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW Sec 11 T6N R65W 6th Principal Meridian</u> Latitude: _____ Longitude: _____			

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Condensate and produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. Groundwater < 20 feet bgs.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Irrigated cropland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Olney fine sandy loam, 1 to 3 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water is located 60' southwest of the site; a building is located 125' west of the site; a water well is located 520' northwest of the site; and depth to groundwater is 9' below ground surface (bgs).

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>33' N-S x 23' E-W x 9' bgs</u>	<u>Laboratory analysis and field screening of soil samples</u>
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>See attached data</u>	<u>Laboratory analysis of groundwater samples</u>
<input type="checkbox"/> Surface water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
Form 19 was submitted on 10/21/2009 (Spill #1632793). An initial Form 27 submitted on 4/2/2010 (Remediation #4935).

Describe how source is to be removed:
During a routine tank battery upgrade, a leak in the dumpline from the separator to the produced water tank was observed to have released an unknown volume of produced water and condensate into the subsurface. Once the dumpline was removed, impacted soil was excavated. Soil samples were collected from the sidewalls of the excavation and submitted for analysis of BTEX and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA Modified Method 8015. Laboratory analytical results indicate BTEX and TPH concentrations are in compliance with COGCC Table 910-1 Concentration Levels. Due to the proximity of an irrigation pond to the release area, two surface water samples were collected and analyzed for BTEX by EPA method 8260B. Laboratory analytical results indicated BTEX levels in the surface water were in compliance with the CDPHE WQCC Regulation 41 (Reg.41) standards. Groundwater entering the excavation was sampled and analyzed for BTEX by EPA method 8260B. Laboratory analytical results indicated only the benzene concentration was not in compliance with the Reg. 41 concentration level. Before backfilling the excavation, activated carbon was applied to the groundwater and exposed smear zone soils to remediate the remaining hydrocarbons. A topographic site location map and a site map are provided as Figures 1 and 2, respectively. Soil, groundwater, and surface water analytical results are summarized in Tables 1, 2, and 3, respectively.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
Approx. 253 cubic yards of soil exceeding COGCC Table 910-1 Concentration Levels was removed and transported to the Waste Management landfill in Ault, CO for disposal.

Submit Page 2 with Page 1.



REMEDATION WORKPLAN (CONT.)

Tracking Number: Rem # 4935
Name of Operator: Petroleum Development Corporation
OGCC Operator No: 69175
Received Date: 1/7/11
Well Name & No: B. Johnson 11-11
Facility Name & No: B. Johnson 11, 12-11

OGCC Employee: Axelson

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Monitoring wells MW01 through MW03 were installed at the site on November 30, 2009. Each of the wells were sampled on a quarterly basis from December 2009 through September 2010. Groundwater samples were collected from each of the wells and were submitted for laboratory analysis of BTEX by EPA method 8260B. Laboratory analytical results indicate four consecutive quarters of BTEX concentrations in compliance with Reg. 41 standards has been achieved.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.
The site was restored to pre-release grade. PDC's production facility remains at the site.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.
Is further site investigation required? [] Y [X] N If yes, describe:
Laboratory analytical results indicate BTEX concentrations in groundwater have been below laboratory reporting limits and in compliance with Reg. 41 standards for four consecutive quarters. Laboratory analytical results indicate the former groundwater impacts have been remediated. Based on these laboratory analytical results, PDC is requesting a No Further Action determination for this site.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
Approx. 253 cubic yards of soil exceeding COGCC Table 910-1 Concentration Levels was transported to the Waste Management landfill in Ault, CO for disposal.

IMPLEMENTATION SCHEDULE

Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values include 9/3/2009, 9/10/2010, 4/2/2010, 9/3/2009, NA, 9/10/2010.

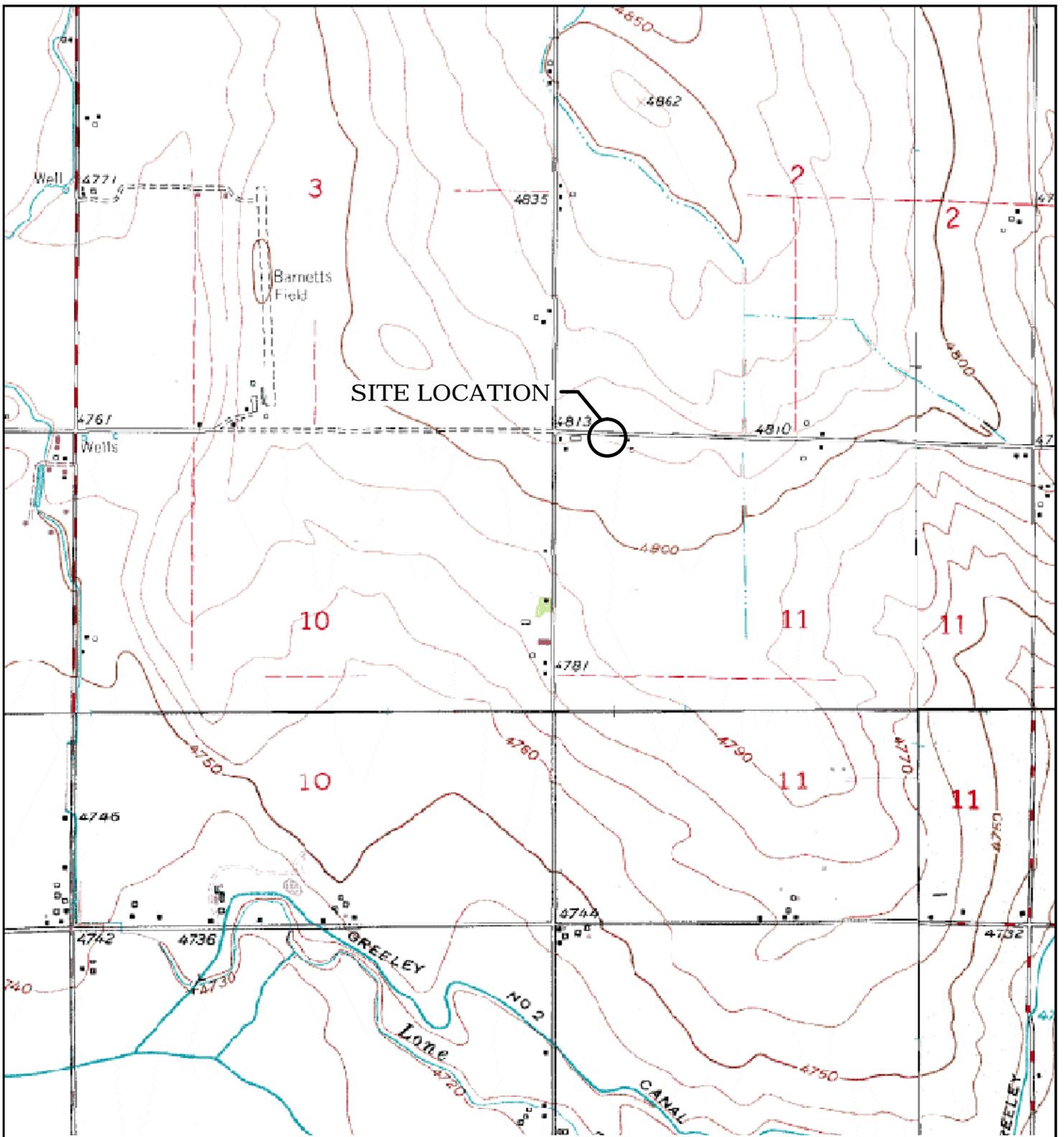
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Randall Ferguson

Signed: [Signature] Title: Environmental Supervisor Date: 1/7/2011

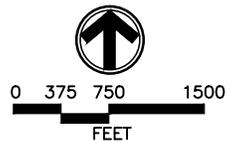
OGCC Approved: [Signature] Title: EPS Date: 1/10/11

Note: This is a supplemental Form 27 for previously approved remediation workplan - COGCC Project # 4935. [Signature]



LEGEND

○ SITE LOCATION



SOURCE: TOPOZONE.COM
USGS 7.5" QUADRANGLE
(NAD27)

FIGURE 1
SITE LOCATION MAP
B. JOHNSON 11 & 12-11
NWNW 11 6N 65W
WELD COUNTY, CO
PETROLEUM DEVELOPMENT CORPORATION



LEGEND

- MW01  MONITORING WELL LOCATION
- SWS01  SURFACE WATER SAMPLE LOCATION
- N01  SOIL SAMPLE LOCATION
- GW01  WATER SAMPLE LOCATION
-  METER HOUSE
-  BERM
- X RELEASE LOCATION
- - - - - EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

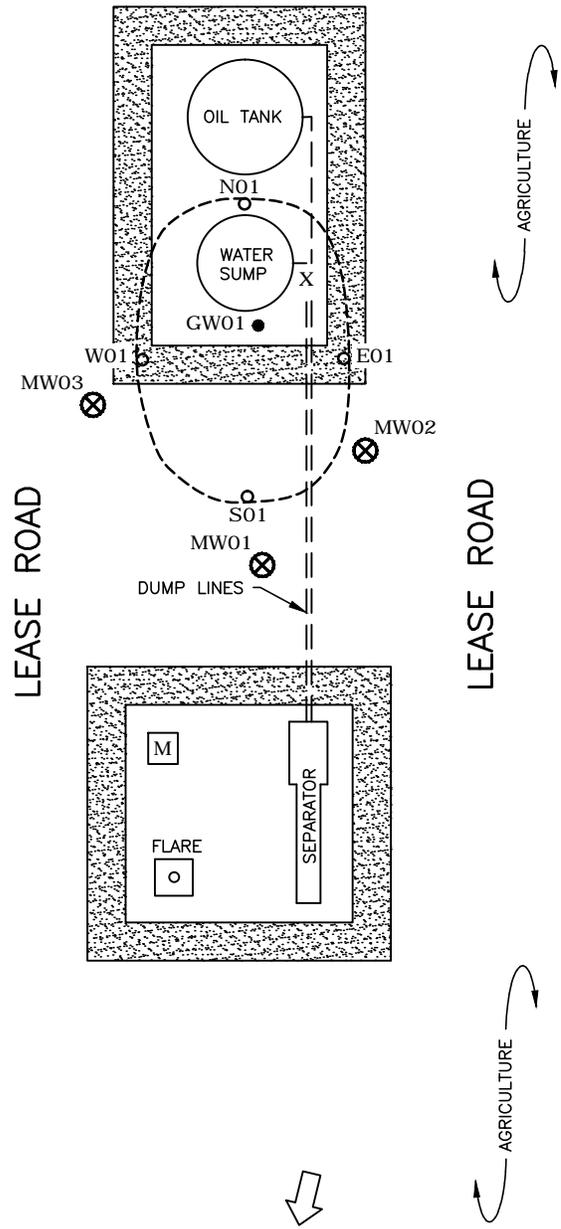
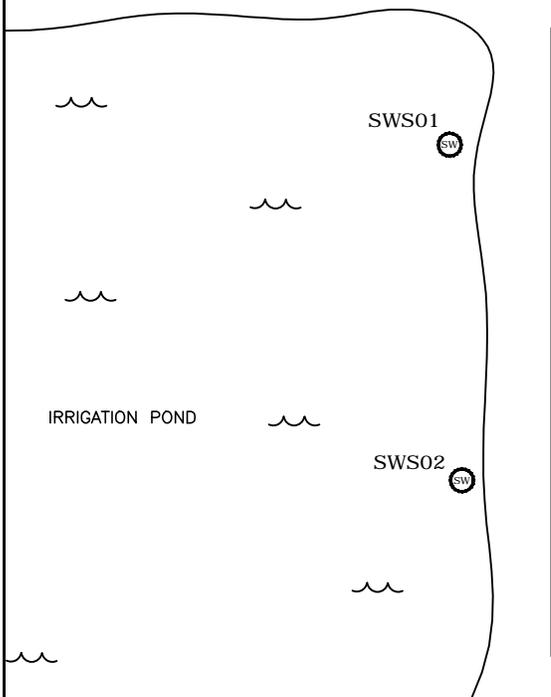


FIGURE 2
SITE MAP
 B. JOHNSON 11 & 12-11
 NWNW 11 6N 65W
 WELD COUNTY, CO
 PETROLEUM DEVELOPMENT CORPORATION



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
B. JOHNSON 11, 12-11 (API No. 05-123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPH (mg/kg)
E01	3.5	09/08/2009	0.0056	<0.0050	<0.0050	<0.0050	<50.5
N01	4.5	09/08/2009	<0.010	<0.010	<0.010	<0.010	<51
S01	4	09/08/2009	<0.010	<0.010	<0.010	<0.010	<51
W01	4	09/08/2009	<0.0050	<0.0050	<0.0050	<0.0050	1.5
Basic Standards for Soil			0.17	85	100	175	500

Notes: < - less than stated laboratory reporting limit
 TPH - Total Petroleum Hydrocarbons (C6-C28)
 API - American Petroleum Institute
 Bold numbers indicate result equalled or exceeded standard.
 Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.

NA - Not Analyzed
 mg/kg - milligrams per kilogram
 ft bgs - feet below ground surface



TABLE 2
GROUNDWATER ANALYTICAL RESULTS AND FIELD PARAMETERS
B. JOHNSON 11, 12-11 (API No. 123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
GW01	09/03/2009	2900	1400	300	3000	NM
MW01	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.17
	04/02/2010	<1.0	<1.0	<1.0	<1.0	5.39
	06/23/2010	<1.0	<1.0	<1.0	<1.0	2.84
	09/10/2010	<1.0	<1.0	<1.0	<1.0	1.89
MW02	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.45
	04/02/2010	<1.0	<1.0	<1.0	<1.0	5.53
	06/23/2010	<1.0	<1.0	<1.0	<1.0	3.18
	09/10/2010	<1.0	<1.0	<1.0	<1.0	2.41
MW03	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.92
	04/02/2010	<1.0	<1.0	<1.0	<1.0	6.03
	06/23/2010	<1.0	<1.0	<1.0	<1.0	3.46
	09/10/2010	<1.0	<1.0	<1.0	<1.0	2.20
Basic Standards for Groundwater:		5	560	700	1400	

Notes: < - less than
ft btoc - feet below top of casing
Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment - Water Quality Control Commission Regulation 41, effective 4/1/2009.
Bold numbers indicate result equaled or exceeded standard.

ug/L - micrograms per Liter NA - Not Analyzed/Not Available
NM - Not measured API - American Petroleum Institute



TABLE 3
SURFACE WATER ANALYTICAL RESULTS
B. JOHNSON 11, 12-11 (API No. 123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)
SWS01	09/08/2009	<1.0	<1.0	<1.0	<1.0
SWS02	09/08/2009	<1.0	<1.0	<1.0	<1.0

Notes: < - less than

API - American Petroleum Institute

ug/L - micrograms per Liter

NA - Not Analyzed/Not Available



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 08, 2009

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

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/03/09 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 09/08/09 15:00

GW01
R909023-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/03/09 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2900	20	ug/l	20	9090409	09/04/09	09/05/09	EPA 8260B	
Toluene	1400	10	"	10	"	"	"	"	
Ethylbenzene	300	10	"	"	"	"	"	"	
Xylenes (total)	3000	10	"	"	"	"	"	"	

Date Sampled: **09/03/09 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	74.3-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-115		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 9090409 - EPA 5030 Water MS

Blank (9090409-BLK1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	74.3-129				
Surrogate: Toluene-d8	13.4		"	13.3	101	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.5	83.5-115				

LCS (9090409-BS1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	23.3	1.0	ug/l	33.3	69.9	70-114		1.86	8.14	
Toluene	25.3	1.0	"	33.3	76.0	72.7-116		2.56	7.88	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3	108	74.3-129				
Surrogate: Toluene-d8	12.1		"	13.3	90.5	87.7-110				
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3	88.2	83.5-115				

LCS Dup (9090409-BSD1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	22.9	1.0	ug/l	33.3	68.6	70-114		1.86	8.14	
Toluene	24.7	1.0	"	33.3	74.1	72.7-116		2.56	7.88	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3	109	74.3-129				
Surrogate: Toluene-d8	13.0		"	13.3	97.2	87.7-110				
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3	89.0	83.5-115				

Matrix Spike (9090409-MS1)

Source: R909025-01

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	22.6	1.0	ug/l	33.3	ND	67.8	66.8-117		17.8	
Toluene	24.5	1.0	"	33.3	ND	73.6	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	74.3-129			
Surrogate: Toluene-d8	12.2		"	13.3		91.4	87.7-110			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.1	83.5-115			

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 09/08/09 15:00

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

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

Batch 9090409 - EPA 5030 Water MS

Matrix Spike Dup (9090409-MSD1)	Source: R909025-01			Prepared: 09/04/09		Analyzed: 09/05/09				
Benzene	22.2	1.0	ug/l	33.3	ND	66.7	66.8-117	1.56	17.8	
Toluene	25.5	1.0	"	33.3	ND	76.5	71.5-117	3.88	14.4	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	74.3-129			
Surrogate: Toluene-d8	12.3		"	13.3		92.2	87.7-110			
Surrogate: 4-Bromofluorobenzene	11.3		"	13.3		84.5	83.5-115			

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

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

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 10, 2009

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

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/09/09 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' with a long, sweeping horizontal line extending to the right.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4.5'	R909040-01	Soil	09/08/09 15:41	09/09/09 10:40
S01@4'	R909040-02	Soil	09/08/09 15:31	09/09/09 10:40
E01@3.5'	R909040-03	Soil	09/08/09 15:29	09/09/09 10:40
W01@4'	R909040-04	Soil	09/08/09 15:39	09/09/09 10:40
SWS01	R909040-05	Water	09/08/09 00:00	09/09/09 10:40
SWS02	R909040-06	Water	09/08/09 00:00	09/09/09 10:40

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

N01@4.5'
R909040-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		98.4 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.010	mg/kg	2	9090905	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		95.7 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	85.3-109		"	"	"	"	

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

S01@4'
R909040-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.010	mg/kg	2	9090905	09/09/09	09/10/09	EPA 8260B	
Toluene	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		100 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	85.3-109		"	"	"	"	

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

E01@3.5'
R909040-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0056	0.0050	mg/kg	1	9090905	09/09/09	09/10/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	85.3-109		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

W01@4'
R909040-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/09/09	8015 DRO	

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9090905	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		100 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	85.3-109		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 09/10/09 15:10

SWS01
R909040-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9090903	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>74.3-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>87.7-110</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>91.1 %</i>	<i>83.5-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 09/10/09 15:10

SWS02
R909040-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9090903	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	74.3-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		106 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.0 %	83.5-115		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 9090906 - EPA 3550A

Blank (9090906-BLK1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.5		"	12.5		99.9	77.7-123				

LCS (9090906-BS1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO)	516	50	mg/kg	500		103	83.3-127			15	
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LCS Dup (9090906-BSD1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO)	514	50	mg/kg	500		103	83.3-127	0.199		15	
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Matrix Spike (9090906-MS1)

Source: R909040-01

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO)	518	50	mg/kg	500	ND	104	75.8-126			13.6	
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Matrix Spike Dup (9090906-MSD1)

Source: R909040-01

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO)	501	50	mg/kg	500	ND	100	75.8-126	3.22		13.6	
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Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

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

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

Batch 9090903 - EPA 5030 Water MS

Blank (9090903-BLK1)

Prepared & Analyzed: 09/09/09

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>	<i>104</i>	<i>74.3-129</i>					
<i>Surrogate: Toluene-d8</i>	<i>14.6</i>		<i>"</i>	<i>13.3</i>	<i>110</i>	<i>87.7-110</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>	<i>95.0</i>	<i>83.5-115</i>					

LCS (9090903-BS1)

Prepared & Analyzed: 09/09/09

Benzene	27.0	1.0	ug/l	33.3	81.1	70-114			3.53	8.14	
Toluene	31.4	1.0	"	33.3	94.2	72.7-116			2.35	7.88	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>	<i>104</i>	<i>74.3-129</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>	<i>101</i>	<i>87.7-110</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>13.3</i>	<i>89.9</i>	<i>83.5-115</i>					

LCS Dup (9090903-BSD1)

Prepared & Analyzed: 09/09/09

Benzene	28.0	1.0	ug/l	33.3	84.0	70-114			3.53	8.14	
Toluene	30.7	1.0	"	33.3	92.0	72.7-116			2.35	7.88	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.3</i>	<i>109</i>	<i>74.3-129</i>					
<i>Surrogate: Toluene-d8</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>	<i>107</i>	<i>87.7-110</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>	<i>94.3</i>	<i>83.5-115</i>					

Batch 9090905 - EPA 5030 Soil MS

Blank (9090905-BLK1)

Prepared & Analyzed: 09/09/09

Benzene	ND	0.0050	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.0050	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>	<i>96.7</i>	<i>77.3-121</i>					
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>	<i>99.2</i>	<i>91.4-107</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>	<i>94.2</i>	<i>85.3-109</i>					

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

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

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

Batch 9090905 - EPA 5030 Soil MS

LCS (9090905-BS1)

Prepared & Analyzed: 09/09/09

Benzene	0.0861	0.0050	mg/kg	0.100		86.1	70-114		8.14	
Toluene	0.0966	0.0050	"	0.100		96.6	72.7-116		7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.1	77.3-121			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.1	85.3-109			

LCS Dup (9090905-BSD1)

Prepared & Analyzed: 09/09/09

Benzene	0.0874	0.0050	mg/kg	0.100		87.4	70-114	1.52	8.14	
Toluene	0.0982	0.0050	"	0.100		98.2	72.7-116	1.60	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	77.3-121			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.1	85.3-109			

Matrix Spike (9090905-MS1)

Source: R909040-01

Prepared & Analyzed: 09/09/09

Benzene	0.111	0.0050	mg/kg	0.100	ND	111	66.8-117		17.8	
Toluene	0.0991	0.0050	"	0.100	ND	99.1	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	77.3-121			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	85.3-109			

Matrix Spike Dup (9090905-MSD1)

Source: R909040-01

Prepared & Analyzed: 09/09/09

Benzene	0.115	0.0050	mg/kg	0.100	ND	115	66.8-117	3.44	17.8	
Toluene	0.102	0.0050	"	0.100	ND	102	71.5-117	2.98	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0553		"	0.0400		138	77.3-121			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	85.3-109			

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 10, 2009

John Peterson
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 12/04/09 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long, sweeping horizontal line extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R912022-01	Water	12/03/09 14:30	12/04/09 16:30
MW02	R912022-02	Water	12/03/09 14:45	12/04/09 16:30
MW03	R912022-03	Water	12/03/09 15:00	12/04/09 16:30

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 12/10/09 10:40

MW01
R912022-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %	74.3-129		"	"	"	"	
Surrogate: Toluene-d8		101 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-115		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 12/10/09 10:40

MW02
R912022-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	74.3-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	83.5-115		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 12/10/09 10:40

MW03
R912022-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	74.3-129		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	83.5-115		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 9120702 - EPA 5030 Water MS

Blank (9120702-BLK1)

Prepared & Analyzed: 12/07/09

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.8	74.3-129				
Surrogate: Toluene-d8	13.3		"	13.3		100	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		102	83.5-115				

LCS (9120702-BS1)

Prepared & Analyzed: 12/07/09

Benzene	35.2	1.0	ug/l	33.3		106	70-114			8.14	
Toluene	35.8	1.0	"	33.3		107	72.7-116			7.88	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.8	74.3-129				
Surrogate: Toluene-d8	13.3		"	13.3		100	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	83.5-115				

LCS Dup (9120702-BSD1)

Prepared & Analyzed: 12/07/09

Benzene	35.6	1.0	ug/l	33.3		107	70-114	1.05		8.14	
Toluene	35.0	1.0	"	33.3		105	72.7-116	2.12		7.88	
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	74.3-129				
Surrogate: Toluene-d8	12.8		"	13.3		95.6	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	83.5-115				

Matrix Spike (9120702-MS1)

Source: R912014-01

Prepared & Analyzed: 12/07/09

Benzene	38.0	1.0	ug/l	33.3	ND	114	66.8-117			17.8	
Toluene	37.6	1.0	"	33.3	ND	113	71.5-117			14.4	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	74.3-129				
Surrogate: Toluene-d8	13.5		"	13.3		102	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	83.5-115				

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: John Peterson

Reported:
 12/10/09 10:40

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

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

Batch 9120702 - EPA 5030 Water MS

Matrix Spike Dup (9120702-MSD1)	Source: R912014-01			Prepared & Analyzed: 12/07/09						
Benzene	34.4	1.0	ug/l	33.3	ND	103	66.8-117	9.92	17.8	
Toluene	34.4	1.0	"	33.3	ND	103	71.5-117	9.01	14.4	
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	74.3-129			
Surrogate: Toluene-d8	13.7		"	13.3		102	87.7-110			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	83.5-115			

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

April 06, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Johnson 11+12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R004023-01	Water	04/02/10 15:05	04/02/10 17:00
MW02	R004023-02	Water	04/02/10 15:10	04/02/10 17:00
MW03	R004023-03	Water	04/02/10 15:15	04/02/10 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: PDC - Johnson 11+12-11

Project Number: PDC09021
 Project Manager: Brian Dodek

Reported:
 04/06/10 12:13

MW01
R004023-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/02/10 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.5 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		100 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	83.9-116		"	"	"	"	

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: PDC - Johnson 11+12-11

Project Number: PDC09021
 Project Manager: Brian Dodek

Reported:
 04/06/10 12:13

MW02
R004023-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/02/10 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		79.6 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		104 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	83.9-116		"	"	"	"	

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: PDC - Johnson 11+12-11

Project Number: PDC09021
 Project Manager: Brian Dodek

Reported:
 04/06/10 12:13

MW03
R004023-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/02/10 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.5 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		102 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	83.9-116		"	"	"	"	

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: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 0040303 - EPA 5030 Water MS

Blank (0040303-BLK1)

Prepared & Analyzed: 04/03/10

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.6	70.4-127				
Surrogate: Toluene-d8	13.3		"	13.3		99.8	85.7-111				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	83.9-116				

LCS (0040303-BS1)

Prepared & Analyzed: 04/03/10

Benzene	35.5	1.0	ug/l	33.3		107	64.2-127			10.9	
Toluene	36.7	1.0	"	33.3		110	66.4-125			11.3	
Ethylbenzene	29.8	1.0	"	33.3		89.4	70-130			20	
m,p-Xylene	69.2	2.0	"	66.7		104	70-130			20	
o-Xylene	27.4	1.0	"	33.3		82.2	70-130			20	
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		84.5	70.4-127				
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	83.9-116				

LCS Dup (0040303-BSD1)

Prepared & Analyzed: 04/03/10

Benzene	36.5	1.0	ug/l	33.3		109	64.2-127	2.58		10.9	
Toluene	37.2	1.0	"	33.3		112	66.4-125	1.38		11.3	
Ethylbenzene	27.2	1.0	"	33.3		81.5	70-130	9.24		20	
m,p-Xylene	63.7	2.0	"	66.7		95.6	70-130	8.27		20	
o-Xylene	25.8	1.0	"	33.3		77.5	70-130	5.86		20	
Surrogate: 1,2-Dichloroethane-d4	11.5		"	13.3		86.0	70.4-127				
Surrogate: Toluene-d8	13.9		"	13.3		104	85.7-111				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.9	83.9-116				

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: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

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

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

Batch 0040303 - EPA 5030 Water MS

Matrix Spike (0040303-MS1)	Source: R004026-01			Prepared & Analyzed: 04/03/10							
Benzene	36.9	1.0	ug/l	33.3	ND	111	57.4-127				19.3
Toluene	37.8	1.0	"	33.3	ND	113	60.1-123				18.7
Ethylbenzene	26.9	1.0	"	33.3	ND	80.8	70-130				20
m,p-Xylene	60.5	2.0	"	66.7	ND	90.8	70-130				20
o-Xylene	25.6	1.0	"	33.3	ND	76.7	70-130				20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.6</i>		<i>"</i>	<i>13.3</i>		<i>87.2</i>	<i>70.4-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>85.7-111</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.7</i>	<i>83.9-116</i>				

Matrix Spike Dup (0040303-MSD1)	Source: R004026-01			Prepared & Analyzed: 04/03/10							
Benzene	36.3	1.0	ug/l	33.3	ND	109	57.4-127	1.42			19.3
Toluene	37.0	1.0	"	33.3	ND	111	60.1-123	1.98			18.7
Ethylbenzene	27.4	1.0	"	33.3	ND	82.1	70-130	1.69			20
m,p-Xylene	61.6	2.0	"	66.7	ND	92.5	70-130	1.82			20
o-Xylene	26.2	1.0	"	33.3	ND	78.5	70-130	2.24			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.5</i>		<i>"</i>	<i>13.3</i>		<i>86.3</i>	<i>70.4-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>85.7-111</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>96.8</i>	<i>83.9-116</i>				

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: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 28, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 06/23/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' with a long horizontal flourish extending to the right.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R006140-01	Water	06/23/10 14:30	06/23/10 17:00
MW02	R006140-02	Water	06/23/10 14:35	06/23/10 17:00
MW03	R006140-03	Water	06/23/10 14:40	06/23/10 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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 06/28/10 14:16

MW01
R006140-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/23/10 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	83.9-116		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 06/28/10 14:16

MW02
R006140-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/23/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.9 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.3 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	83.9-116		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 06/28/10 14:16

MW03
R006140-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/23/10 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	83.9-116		"	"	"	"	

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 0062505 - EPA 5030 Water MS

Blank (0062505-BLK1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		92.9	70.4-127			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	83.9-116			

LCS (0062505-BS1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	29.1	1.0	ug/l	33.3		87.4	64.2-127		10.9	
Toluene	28.9	1.0	"	33.3		86.7	66.4-125		11.3	
Ethylbenzene	28.7	1.0	"	33.3		86.0	70-130		20	
m,p-Xylene	55.8	2.0	"	66.7		83.7	70-130		20	
o-Xylene	26.3	1.0	"	33.3		78.8	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	83.9-116			

LCS Dup (0062505-BSD1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	31.5	1.0	ug/l	33.3		94.6	64.2-127	7.91	10.9	
Toluene	31.4	1.0	"	33.3		94.1	66.4-125	8.20	11.3	
Ethylbenzene	30.3	1.0	"	33.3		91.0	70-130	5.56	20	
m,p-Xylene	59.6	2.0	"	66.7		89.4	70-130	6.57	20	
o-Xylene	28.2	1.0	"	33.3		84.7	70-130	7.19	20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		99.2	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	83.9-116			

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: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

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

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

Batch 0062505 - EPA 5030 Water MS

Matrix Spike (0062505-MS1)		Source: R006139-03			Prepared: 06/25/10		Analyzed: 06/26/10			
Benzene	28.4	1.0	ug/l	33.3	ND	85.3	57.4-127			19.3
Toluene	28.3	1.0	"	33.3	ND	84.8	60.1-123			18.7
Ethylbenzene	27.3	1.0	"	33.3	ND	81.9	70-130			20
m,p-Xylene	53.5	2.0	"	66.7	ND	80.3	70-130			20
o-Xylene	25.1	1.0	"	33.3	ND	75.2	70-130			20
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.2	70.4-127			
Surrogate: Toluene-d8	13.5		"	13.3		101	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	83.9-116			
Matrix Spike Dup (0062505-MSD1)		Source: R006139-03			Prepared: 06/25/10		Analyzed: 06/26/10			
Benzene	28.8	1.0	ug/l	33.3	ND	86.5	57.4-127	1.40		19.3
Toluene	28.4	1.0	"	33.3	ND	85.2	60.1-123	0.424		18.7
Ethylbenzene	27.9	1.0	"	33.3	ND	83.8	70-130	2.35		20
m,p-Xylene	55.0	2.0	"	66.7	ND	82.4	70-130	2.60		20
o-Xylene	25.7	1.0	"	33.3	ND	77.1	70-130	2.52		20
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.1	70.4-127			
Surrogate: Toluene-d8	13.5		"	13.3		101	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	83.9-116			

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

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

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 19, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' with a long horizontal flourish extending to the right.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R009083-01	Water	09/10/10 10:30	09/10/10 17:00
MW02	R009083-02	Water	09/10/10 10:35	09/10/10 17:00
MW03	R009083-03	Water	09/10/10 10:40	09/10/10 17:00

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 09/19/10 19:59

MW01
R009083-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/10/10 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 09/19/10 19:59

MW02
R009083-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/10/10 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.7 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.7 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
 Project Manager: Brian Dodek

Reported:
 09/19/10 19:59

MW03
R009083-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/10/10 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.9 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Summit Scientific

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 0091608 - EPA 5030 Water MS

Blank (0091608-BLK1)

Prepared: 09/16/10 Analyzed: 09/17/10

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	13.1		"	13.3		98.2	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	80.8-120				

LCS (0091608-BS1)

Prepared: 09/16/10 Analyzed: 09/17/10

Benzene	29.6	1.0	ug/l	33.3		88.7	60.1-131		10.9		
Toluene	27.0	1.0	"	33.3		81.0	65.9-127		11.3		
Ethylbenzene	32.5	1.0	"	33.3		97.6	65.1-129		20		
m,p-Xylene	61.1	2.0	"	66.7		91.6	66.8-127		20		
o-Xylene	28.4	1.0	"	33.3		85.1	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	57.9-139				
Surrogate: Toluene-d8	13.4		"	13.3		100	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.6	80.8-120				

LCS Dup (0091608-BSD1)

Prepared: 09/16/10 Analyzed: 09/17/10

Benzene	30.4	1.0	ug/l	33.3		91.1	60.1-131	2.64	10.9		
Toluene	27.7	1.0	"	33.3		83.0	65.9-127	2.49	11.3		
Ethylbenzene	34.4	1.0	"	33.3		103	65.1-129	5.53	20		
m,p-Xylene	65.4	2.0	"	66.7		98.1	66.8-127	6.77	20		
o-Xylene	30.6	1.0	"	33.3		91.8	61.2-120	7.56	20		
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	57.9-139				
Surrogate: Toluene-d8	13.3		"	13.3		100	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	80.8-120				

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

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

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

Batch 0091608 - EPA 5030 Water MS

Matrix Spike (0091608-MS1)	Source: R009083-01			Prepared: 09/16/10		Analyzed: 09/17/10					
Benzene	31.2	1.0	ug/l	33.3	ND	93.5	52.7-130			19.3	
Toluene	27.0	1.0	"	33.3	ND	81.1	57-127			18.7	
Ethylbenzene	30.4	1.0	"	33.3	ND	91.2	59.2-127			20	
m,p-Xylene	57.2	2.0	"	66.7	ND	85.8	53.2-132			20	
o-Xylene	26.6	1.0	"	33.3	ND	79.7	56.3-117			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.3</i>		<i>109</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>96.9</i>	<i>80.8-120</i>				
Matrix Spike Dup (0091608-MSD1)	Source: R009083-01			Prepared: 09/16/10		Analyzed: 09/17/10					
Benzene	29.2	1.0	ug/l	33.3	ND	87.7	52.7-130	6.39		19.3	
Toluene	26.3	1.0	"	33.3	ND	78.8	57-127	2.89		18.7	
Ethylbenzene	31.5	1.0	"	33.3	ND	94.5	59.2-127	3.62		20	
m,p-Xylene	58.7	2.0	"	66.7	ND	88.1	53.2-132	2.62		20	
o-Xylene	27.3	1.0	"	33.3	ND	81.9	56.3-117	2.71		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>99.4</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.3</i>	<i>80.8-120</i>				

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

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

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

Summit Scientific

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