



February 5, 2013

Mr. Robert Chesson  
Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203

**RE: Groundwater Monitoring Report/Request for No Further Action  
Wacker 2, 22-10, 10D  
API: 05-123-13596  
Spill # 2521515  
Remediation #6012  
NENW Sec. 10 T5N R64W 6<sup>th</sup> PM  
Weld County, Colorado**

Dear Mr. Chesson:

LT Environmental, Inc. (LTE), under the direction of PDC Energy, Inc. (PDC), conducted groundwater sampling activities at the Wacker 2 Tank Battery (Site) on December 20, 2012. The Site is located approximately 0.40 miles west southwest of the intersection of Weld County Road (WCR) 55.5 and WCR 60 in Weld County, Colorado. The legal site description is the northeast quarter of the northwest quarter of Section 10, Township 5 North, and Range 64 West of the 6<sup>th</sup> Principal Meridian. A Site Location Map is provided as Figure 1.

### **Source Removal Activities**

Following the discovery of the release, PDC shut-in the wells feeding the battery. Once the dump lines were removed, approximately 1,480 cubic yards of impacted soil were excavated and transported offsite for disposal. On June 13, 2010, due to a storm event and potential irrigation of the nearby agricultural field, the excavation filled with water overnight before excavation soil samples could be collected. As a result, approximately 1,600 barrels of water were removed from the excavation with a vacuum truck. After removal, groundwater did not enter the base of the excavation.

Soil borings were installed surrounding the excavation to determine the extent of soil and groundwater impact beyond the current excavation extent. On June 14, 2010, soil samples BH01 through BH05 (Figure 2) were collected during soil boring installation activities and were submitted to Summit Scientific, Inc. (Summit) of Golden, Colorado, for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), and naphthalene by Environmental Protection Agency (EPA) Method 8260B and TPH-diesel range organics (DRO) by EPA Modified Method 8015. Soil sample BH01 was also analyzed for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C. On June 24, 2010, soil samples S01 through S11 were collected from the extent of the excavation and were submitted for laboratory analysis of BTEX and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA modified Method 8015. All soil samples were compliant with Colorado Oil and Gas Conservation Commission Table 910-1 Concentration Levels. Soil analytical results are summarized in Table 1. The laboratory analytical reports are included as an attachment.



## Quarterly Groundwater Monitoring

Soil borings BH01 through BH05 were installed at the site on June 14, 2010. The soil borings were completed as monitoring wells to allow for continued groundwater sampling. Following installation, each well was developed, purged, and sampled. Groundwater samples were collected from the wells and submitted to Summit for laboratory analysis of BTEX by EPA Method 8260B. Laboratory analytical results indicated BTEX concentrations in monitoring well BH03 were in compliance with the Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (Reg. 41) standards (Table 2). The benzene concentrations in all other monitoring wells and the toluene concentration at monitoring well BH01 were not in compliance with Reg. 41 standards. Prior to the next sampling event, monitoring wells BH02, BH04, and BH05 were destroyed by battery traffic and agricultural activities. Due to access issues, LTE was unable to replace these monitoring wells until April 2011. On April 28, 2011, monitoring wells BH02R, BH04R, and BH05R were installed to replace BH02, BH04, and BH05, respectively. Following well replacement, each well was developed, purged, and sampled. Groundwater samples were collected from the wells and submitted to Summit for laboratory analysis of BTEX by EPA Method 8260B. Laboratory analytical results indicated the BTEX concentrations in monitoring wells BH02R and BH05R were in compliance with Reg. 41 standards. Monitoring well BH04R was dry and could not be sampled. LTE continued to collect groundwater samples from the monitoring wells on a quarterly basis.

Following the most recent sampling event on December 20, 2012, laboratory analytical results confirmed BTEX concentrations in groundwater have been in compliance with Reg. 41 for four consecutive quarters (Table 2). The laboratory analytical reports are attached.

As soil and groundwater have now been remediated to achieve COGCC and Reg. 41 cleanup goals, PDC is requesting a No Further Action determination for the Site.

Should you have any questions, please contact Brandon Bruns with PDC at (303) 831-3971.

Sincerely,

LT ENVIRONMENTAL, INC.

Michael Wicker  
Staff Geologist

Brian Dodek, P.G.  
Client Manager/Senior Geologist

### Attachments:

Figure 1 – Site Location Map

Figure 2 – Site Map

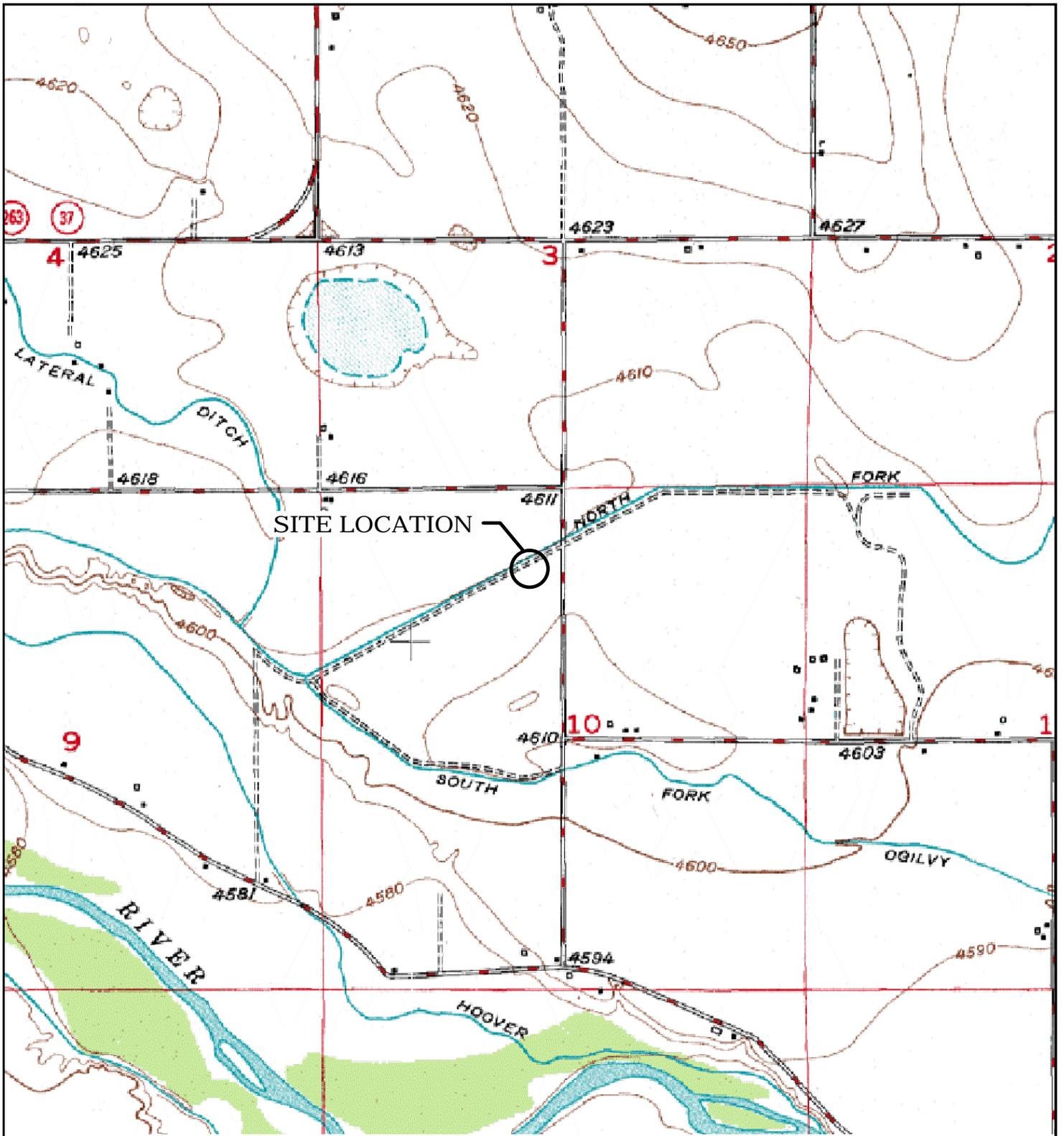
Table 1 – Soil Sample Analytical Results

Table 2 – Groundwater Analytical Results

Attachment – Laboratory Analytical Reports

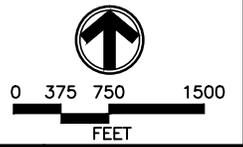
## FIGURES





LEGEND

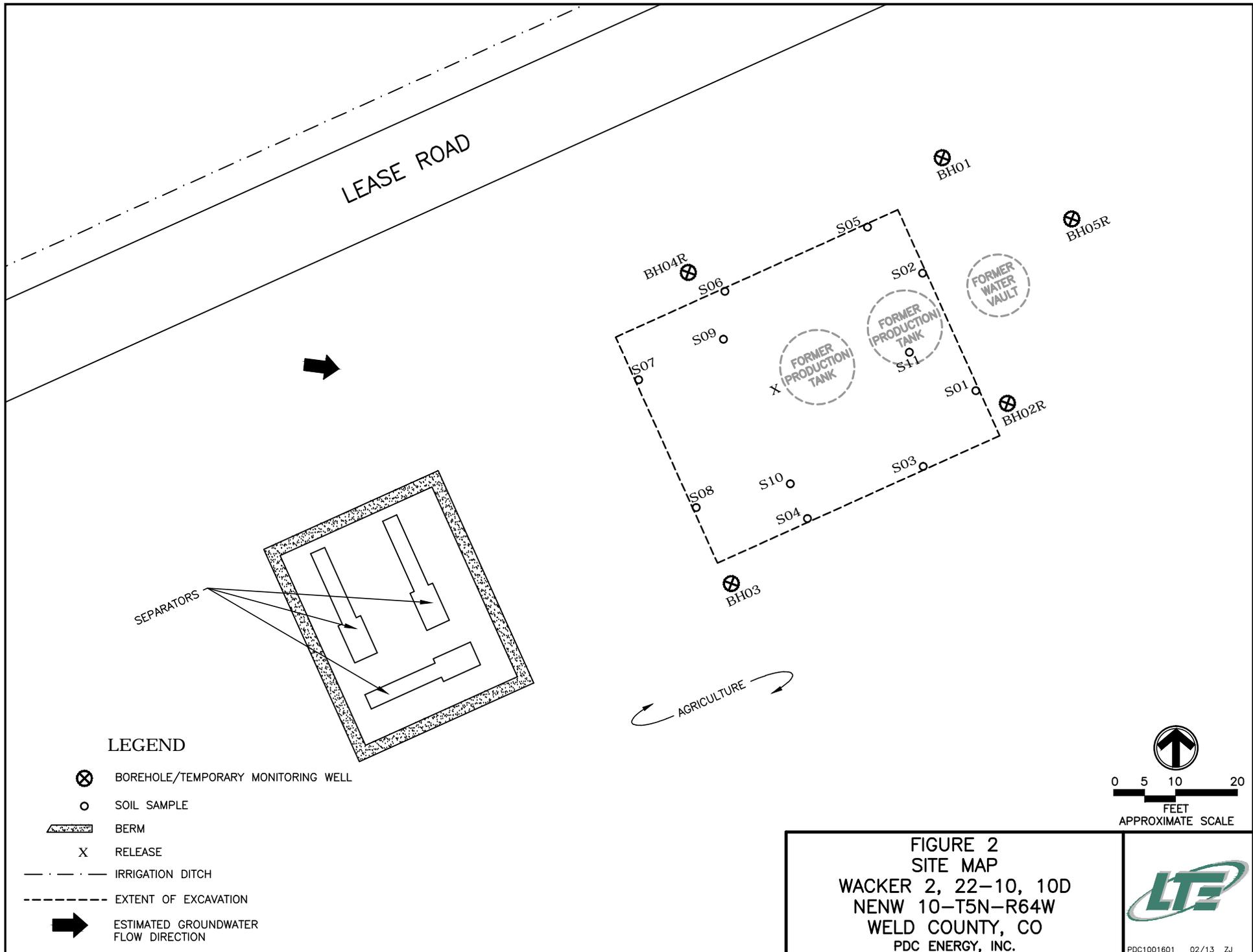
○ SITE LOCATION



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

FIGURE 1  
SITE LOCATION MAP  
WACKER 2, 22-10, 10D  
NENW 10-T5N-R64W  
WELD COUNTY, CO  
PDC ENERGY, INC

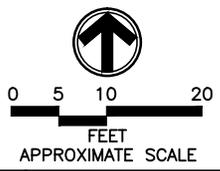




**LEGEND**

-  BOREHOLE/TEMPORARY MONITORING WELL
-  SOIL SAMPLE
-  BERM
-  RELEASE
-  IRRIGATION DITCH
-  EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

**FIGURE 2**  
**SITE MAP**  
 WACKER 2, 22-10, 10D  
 NENW 10-T5N-R64W  
 WELD COUNTY, CO  
 PDC ENERGY, INC.



## **TABLES**



**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Parameter	Standard	BH01	BH02	BH03	BH04
Depth (feet)		22	25	22.5	20
Sample Date		6/14/2010	6/14/2010	6/14/2010	6/14/2010

**Organic Compounds**

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.5	<0.5	<0.5	<0.5
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.005	<0.005	<0.005	<0.005
Toluene (mg/kg)	85	<0.005	<0.005	<0.005	<0.005
Ethylbenzene (mg/kg)	100	<0.005	<0.005	<0.005	<0.005
Xylenes, Total (mg/kg)	175	<0.015	<0.015	<0.015	<0.015
Acenaphthene (mg/kg)	1000	<0.33	NA	NA	NA
Anthracene (mg/kg)	1000	<0.33	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	<0.22	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	<0.22	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	<0.33	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	<0.062	NA	NA	NA
Chrysene (mg/kg)	22	<0.33	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.062	NA	NA	NA
Fluoranthene (mg/kg)	1000	<0.33	NA	NA	NA
Fluorene (mg/kg)	1000	<0.33	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.22	NA	NA	NA
Naphthalene (mg/kg)	23	<0.005	<0.005	<0.005	<0.005
Pyrene (mg/kg)	1000	<0.33	NA	NA	NA

**Notes:**

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Parameter	Standard	BH05	S01	S02	S03
Depth (feet)		20	19	19	19
Sample Date		6/14/2010	6/24/2010	6/24/2010	6/24/2010

**Organic Compounds**

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.5	<0.50	<0.50	<0.50
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.005	<0.0050	<0.0050	<0.0050
Toluene (mg/kg)	85	<0.005	<0.0050	<0.0050	<0.0050
Ethylbenzene (mg/kg)	100	<0.005	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.015	<0.0050	<0.0050	<0.0050
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	<0.005	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

**Notes:**

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Parameter	Standard	S04	S05	S06	S07
Depth (feet)		19	19	19	19
Sample Date		6/24/2010	6/24/2010	6/24/2010	6/24/2010

**Organic Compounds**

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.50	<0.50	<0.50	<0.50
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.0050	<0.0050	<0.0050	<0.0050
Toluene (mg/kg)	85	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene (mg/kg)	100	<0.0050	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	NA	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

**Notes:**

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Parameter	Standard	S08	S09	S10	S11
Depth (feet)		19	20	20	20
Sample Date		6/24/2010	6/24/2010	6/24/2010	6/24/2010

**Organic Compounds**

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.50	<0.50	<0.50	0.74
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	0.74
Benzene (mg/kg)	0.17	<0.0050	<0.0050	<0.0050	0.026
Toluene (mg/kg)	85	<0.0050	<0.0050	<0.0050	0.0086
Ethylbenzene (mg/kg)	100	<0.0050	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.0050	<0.0050	<0.0050	0.060
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	NA	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

**Notes:**

DRO - Diesel Range Organics  
mmhos/cm - millimhos per centimeter  
< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics  
SAR - Sodium Adsorption Ratio  
NA - Not Analyzed

mg/kg - milligrams per kilogram  
TPH - Total Petroleum Hydrocarbons (C6-C28)  
TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.  
Bold numbers indicate result equalled or exceeded standard.



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
BH01	06/15/2010	<b>620</b>	<b>1100</b>	26	480	27.10
	03/31/2011	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2011	<1.0	<1.0	<1.0	<1.0	27.27
	09/23/2011	<1.0	<1.0	<1.0	<1.0	22.24
	12/08/2011	<1.0	<1.0	<1.0	<1.0	25.30
	03/29/2012	<1.0	<1.0	<1.0	<1.0	30.09
	06/22/2012	<1.0	<1.0	<1.0	<1.0	27.01
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.75
	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.24
BH02	06/15/2010	<b>1400</b>	440	31	250	26.77
BH02R	04/29/2011	<1.0	1.3	<1.0	<1.0	26.32
	06/22/2011	<1.0	<1.0	<1.0	<1.0	26.33
	09/23/2011	<1.0	<1.0	<1.0	<1.0	19.44
	12/08/2011	<1.0	<1.0	<1.0	<1.0	22.65
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.45
	06/22/2012	<1.0	<1.0	<1.0	<1.0	24.43
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.61
	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.23
BH03	06/15/2010	<1.0	<1.0	<1.0	<1.0	27.23
	03/31/2011	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2011	<1.0	<1.0	<1.0	<1.0	27.11
	09/23/2011	<1.0	<1.0	<1.0	<1.0	21.97
	12/08/2011	<b>42</b>	<1.0	<1.0	<1.0	25.10
	03/29/2012	<1.0	<1.0	<1.0	<1.0	29.83
	06/22/2012	<1.0	<1.0	<1.0	<1.0	27.00
	09/20/2012	<1.0	<1.0	<1.0	<1.0	22.19
	12/20/2012	<1.0	<1.0	<1.0	<1.0	27.68
BH04	06/15/2010	<b>200</b>	220	7.2	430	27.79
BH04R	04/29/2011	Dry - Not Sampled				
	06/22/2011	Dry - Not Sampled				
	08/18/2011	<b>9.2</b>	3.7	36	2.7	21.50
	09/23/2011	<b>36</b>	<1.0	68	730	19.29
	12/08/2011	<1.0	<1.0	5.7	22	22.33
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.12
	06/22/2012	<1.0	<1.0	7.8	26	23.80
	09/20/2012	<1.0	<1.0	<1.0	<1.0	20.05
	12/20/2012	Damaged - Not Sampled				
BH05	06/15/2010	<b>19</b>	<1.0	<1.0	<1.0	26.21
BH05R	04/29/2011	<1.0	<1.0	<1.0	<1.0	26.40
	06/22/2011	<1.0	<1.0	<1.0	<1.0	26.36
	09/23/2011	<1.0	<1.0	<1.0	<1.0	19.60
	12/08/2011	<1.0	<1.0	<1.0	<1.0	22.75
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.54
	06/22/2012	<1.0	<1.0	<1.0	<1.0	24.47
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.74



**TABLE 2 (Continued)**  
**GROUNDWATER ANALYTICAL RESULTS**  
**WACKER 2, 22-10, 10D (API No. 05-123-13596)**  
**WELD COUNTY, COLORADO**  
**PDC ENERGY, INC.**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
BH05R	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.29
<b>Basic Standards for Groundwater:</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	

**Notes:**

API - American Petroleum Institute  
 NA - not analyzed/not available  
 ug/L - micrograms per Liter

ft btoc - feet below top of casing  
 NM - not measured  
 < - less than stated laboratory reporting limit

Basic Standards for Ground Water are from the Colorado Department of Health and Environment -  
 Water Quality Control Commission Regulation 41, effective 4/1/2009.

**Bold** indicates result equaled or exceeded standard.



**ATTACHMENT**  
**LABORATORY ANALYTICAL REPORTS**



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 24, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/15/10 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 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@22'	R006086-01	Soil	06/14/10 09:50	06/15/10 17:00
BH02@25'	R006086-02	Soil	06/14/10 11:15	06/15/10 17:00
BH03@22.5'	R006086-03	Soil	06/14/10 13:35	06/15/10 17:00
BH04@20'	R006086-04	Soil	06/14/10 15:00	06/15/10 17:00
BH05@20'	R006086-05	Soil	06/14/10 16:50	06/15/10 17:00
BH01	R006086-06	Water	06/15/10 12:00	06/15/10 17:00
BH02	R006086-07	Water	06/15/10 13:25	06/15/10 17:00
BH03	R006086-08	Water	06/15/10 14:00	06/15/10 17:00
BH04	R006086-09	Water	06/15/10 14:35	06/15/10 17:00
BH05	R006086-10	Water	06/15/10 12:40	06/15/10 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH01@22'**  
**R006086-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.3 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.9 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

**Semivolatile Organic Compounds by EPA Method 8270C**

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH01@22'**  
**R006086-01 (Soil)**

**Summit Scientific**

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Acenaphthene	ND	330	ug/kg	1	0062101	06/21/10	06/23/10	EPA 8270D
Acenaphthylene	ND	330	"	"	"	"	"	"
Anthracene	ND	330	"	"	"	"	"	"
Benzo (a) anthracene	ND	220	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	220	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"
Benzo (a) pyrene	ND	62	"	"	"	"	"	"
Chrysene	ND	330	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	62	"	"	"	"	"	"
Fluoranthene	ND	330	"	"	"	"	"	"
Fluorene	ND	330	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	220	"	"	"	"	"	"
Naphthalene	ND	330	"	"	"	"	"	"
Phenanthrene	ND	330	"	"	"	"	"	"
Pyrene	ND	330	"	"	"	"	"	"

Date Sampled: 06/14/10 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		25.4 %		20-121	"	"	"	"	
Surrogate: Phenol-d6		25.9 %		24-113	"	"	"	"	
Surrogate: Nitrobenzene-d5		51.7 %		23-120	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		57.3 %		30-115	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		13.6 %		20-85.7	"	"	"	"	
Surrogate: Terphenyl-d14		140 %		20-137	"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH02@25'**  
**R006086-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.6 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
<i>o</i> -Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		118 %	74-135		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		96.8 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH03@22.5'**  
**R006086-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.2 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
<i>o</i> -Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		108 %	74-135		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		96.4 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	79.6-120		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH04@20'**  
**R006086-04 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.4 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
<i>o</i> -Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		117 %	74-135		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		97.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	79.6-120		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**BH05@20'**  
**R006086-05 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		89.7 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
<i>o</i> -Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		116 %	74-135		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		98.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**BH01**  
**R006086-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/15/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>620</b>	10	ug/l	10	0061605	06/16/10	06/17/10	EPA 8260B	
<b>Toluene</b>	<b>1100</b>	10	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>26</b>	1.0	"	1	"	"	"	"	
<b>Xylenes (total)</b>	<b>480</b>	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.6 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	83.9-116		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**BH02**  
**R006086-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/15/10 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1400</b>	10	ug/l	10	0061605	06/16/10	06/17/10	EPA 8260B	
<b>Toluene</b>	<b>440</b>	10	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>31</b>	1.0	"	1	"	"	"	"	
<b>Xylenes (total)</b>	<b>250</b>	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	83.9-116		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**BH03**  
**R006086-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/15/10 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.4 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.9-116		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**BH04**  
**R006086-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/15/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>200</b>	1.0	ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
<b>Toluene</b>	<b>220</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>7.2</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>430</b>	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	83.9-116		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**BH05**  
**R006086-10 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/15/10 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>19</b>	1.0	ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	83.9-116		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**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 0061606 - EPA 3550A**

<b>Blank (0061606-BLK1)</b>			Prepared & Analyzed: 06/16/10								
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.6</i>	<i>88.8-124</i>				
<b>LCS (0061606-BS1)</b>			Prepared & Analyzed: 06/16/10								
C10-C28 (DRO)	466	50	mg/kg	500		93.2	81.4-129			9.26	
<b>LCS Dup (0061606-BSD1)</b>			Prepared & Analyzed: 06/16/10								
C10-C28 (DRO)	498	50	mg/kg	500		99.7	81.4-129	6.73		9.26	
<b>Matrix Spike (0061606-MS1)</b>			<b>Source: R006086-02</b>		Prepared & Analyzed: 06/16/10						
C10-C28 (DRO)	462	50	mg/kg	500	14.1	89.5	77.8-133			8.48	
<b>Matrix Spike Dup (0061606-MSD1)</b>			<b>Source: R006086-02</b>		Prepared & Analyzed: 06/16/10						
C10-C28 (DRO)	473	50	mg/kg	500	14.1	91.8	77.8-133	2.48		8.48	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**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 0061605 - EPA 5030 Water MS**

**Blank (0061605-BLK1)**

Prepared & Analyzed: 06/16/10

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>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.7</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>83.9-116</i>			

**LCS (0061605-BS1)**

Prepared & Analyzed: 06/16/10

Benzene	32.2	1.0	ug/l	33.3		96.7	64.2-127		10.9	
Toluene	32.1	1.0	"	33.3		96.2	66.4-125		11.3	
Ethylbenzene	31.6	1.0	"	33.3		94.9	70-130		20	
m,p-Xylene	60.5	2.0	"	66.7		90.7	70-130		20	
o-Xylene	26.5	1.0	"	33.3		79.4	70-130		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>83.9-116</i>			

**LCS Dup (0061605-BSD1)**

Prepared & Analyzed: 06/16/10

Benzene	32.7	1.0	ug/l	33.3		98.2	64.2-127	1.51	10.9	
Toluene	32.6	1.0	"	33.3		97.7	66.4-125	1.58	11.3	
Ethylbenzene	31.8	1.0	"	33.3		95.3	70-130	0.505	20	
m,p-Xylene	60.9	2.0	"	66.7		91.4	70-130	0.692	20	
o-Xylene	27.2	1.0	"	33.3		81.6	70-130	2.68	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>83.9-116</i>			

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**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 0061605 - EPA 5030 Water MS**

<b>Matrix Spike (0061605-MS1)</b>	<b>Source: R006078-01</b>			<b>Prepared &amp; Analyzed: 06/16/10</b>						
Benzene	30.3	1.0	ug/l	33.3	ND	90.8	57.4-127			19.3
Toluene	30.3	1.0	"	33.3	ND	90.8	60.1-123			18.7
Ethylbenzene	29.7	1.0	"	33.3	ND	89.2	70-130			20
m,p-Xylene	56.9	2.0	"	66.7	ND	85.4	70-130			20
o-Xylene	25.6	1.0	"	33.3	ND	76.8	70-130			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>83.9-116</i>			

<b>Matrix Spike Dup (0061605-MSD1)</b>	<b>Source: R006078-01</b>			<b>Prepared &amp; Analyzed: 06/16/10</b>						
Benzene	32.0	1.0	ug/l	33.3	ND	96.1	57.4-127	5.68		19.3
Toluene	32.1	1.0	"	33.3	ND	96.2	60.1-123	5.81		18.7
Ethylbenzene	30.5	1.0	"	33.3	ND	91.4	70-130	2.43		20
m,p-Xylene	59.3	2.0	"	66.7	ND	88.9	70-130	4.05		20
o-Xylene	26.0	1.0	"	33.3	ND	78.1	70-130	1.67		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>83.9-116</i>			

**Batch 0061607 - EPA 5030 Soil MS**

<b>Blank (0061607-BLK1)</b>	<b>Prepared &amp; Analyzed: 06/16/10</b>									
Naphthalene	ND	5.0	ug/kg							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.1</i>		<i>"</i>	<i>40.0</i>		<i>115</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>39.3</i>		<i>"</i>	<i>40.0</i>		<i>98.2</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>41.0</i>		<i>"</i>	<i>40.0</i>		<i>103</i>	<i>79.6-120</i>			

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**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 0061607 - EPA 5030 Soil MS**

**LCS (0061607-BS1)**

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg				70-130		20	
Benzene	116	5.0	"	100	116		70.2-125		11.1	
Toluene	113	5.0	"	100	113		74-123		10.9	
Ethylbenzene	123	5.0	"	100	123		70-130		20	
m,p-Xylene	213	10	"	200	107		70-130		20	
o-Xylene	112	5.0	"	100	112		70-130		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.4</i>		<i>"</i>	<i>40.0</i>	<i>116</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.5</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.8</i>		<i>"</i>	<i>40.0</i>	<i>99.4</i>		<i>79.6-120</i>			

**LCS Dup (0061607-BSD1)**

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg				70-130		20	
Benzene	122	5.0	"	100	122		70.2-125	4.41	11.1	
Toluene	118	5.0	"	100	118		74-123	3.95	10.9	
Ethylbenzene	120	5.0	"	100	120		70-130	2.61	20	
m,p-Xylene	205	10	"	200	102		70-130	4.09	20	
o-Xylene	112	5.0	"	100	112		70-130	0.428	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.6</i>		<i>"</i>	<i>40.0</i>	<i>119</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.5</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.9</i>		<i>"</i>	<i>40.0</i>	<i>99.8</i>		<i>79.6-120</i>			

**Matrix Spike (0061607-MS1)**

Source: R006086-02

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg		0.00		70-130		20	
Benzene	109	5.0	"	100	0.00	109	67.1-125		17.9	
Toluene	103	5.0	"	100	0.00	103	68.6-124		11.9	
Ethylbenzene	110	5.0	"	100	0.00	110	70-130		20	
m,p-Xylene	191	10	"	200	0.00	95.4	70-130		20	
o-Xylene	101	5.0	"	100	0.00	101	70-130		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.7</i>		<i>"</i>	<i>40.0</i>	<i>124</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.3</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>40.6</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>79.6-120</i>			

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 4600 West 60th Avenue  
 Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/24/10 14:38

**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 0061607 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (0061607-MSD1)</b>	<b>Source: R006086-02</b>			<b>Prepared &amp; Analyzed: 06/16/10</b>							
Naphthalene	ND	5.0	ug/kg		0.00		70-130			20	
Benzene	110	5.0	"	100	0.00	110	67.1-125	0.852		17.9	
Toluene	104	5.0	"	100	0.00	104	68.6-124	0.867		11.9	
Ethylbenzene	115	5.0	"	100	0.00	115	70-130	3.91		20	
m,p-Xylene	198	10	"	200	0.00	98.9	70-130	3.63		20	
o-Xylene	105	5.0	"	100	0.00	105	70-130	4.66		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.8</i>		<i>"</i>	<i>40.0</i>		<i>115</i>	<i>74-135</i>				
<i>Surrogate: Toluene-d8</i>	<i>40.1</i>		<i>"</i>	<i>40.0</i>		<i>100</i>	<i>84.3-112</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.3</i>		<i>"</i>	<i>40.0</i>		<i>98.3</i>	<i>79.6-120</i>				

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Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Summit Scientific**

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

**Batch 0062101 - EPA 3550A**

**Blank (0062101-BLK1)**

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	ND	330	ug/kg							
Acenaphthylene	ND	330	"							
Anthracene	ND	330	"							
Benzo (a) anthracene	ND	220	"							
Benzo (b) fluoranthene	ND	220	"							
Benzo (k) fluoranthene	ND	330	"							
Benzo (g,h,i) perylene	ND	330	"							
Benzo (a) pyrene	ND	62	"							
Chrysene	ND	330	"							
Dibenz (a,h) anthracene	ND	62	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	220	"							
Naphthalene	ND	330	"							
Phenanthrene	ND	330	"							
Pyrene	ND	330	"							
<i>Surrogate: 2-Fluorophenol</i>	879		"	3330	26.4	20-121				
<i>Surrogate: Phenol-d6</i>	963		"	3330	28.9	24-113				
<i>Surrogate: Nitrobenzene-d5</i>	1700		"	3330	51.0	23-120				
<i>Surrogate: 2-Fluorobiphenyl</i>	1840		"	3330	55.2	30-115				
<i>Surrogate: 2,4,6-Tribromophenol</i>	1020		"	6670	15.3	20-85.7				
<i>Surrogate: Terphenyl-d14</i>	7480		"	6670	112	20-137				

**LCS (0062101-BS1)**

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	1930	330	ug/kg	3330	57.8	30-120		30
Acenaphthylene	979	330	"	3330	29.4	30-120		30
Anthracene	1210	330	"	3330	36.4	30-120		30
Benzo (a) anthracene	3500	220	"	3330	105	30-120		30
Benzo (b) fluoranthene	3110	220	"	3330	93.4	30-120		30
Benzo (k) fluoranthene	4600	330	"	3330	138	30-120		30
Benzo (g,h,i) perylene	2430	330	"	3330	72.8	30-120		30
Benzo (a) pyrene	4160	62	"	3330	125	30-120		30
Chrysene	3450	330	"	3330	103	30-120		30
Dibenz (a,h) anthracene	2830	62	"	3330	85.0	30-120		30
Fluoranthene	1330	330	"	3330	40.0	30-120		30
Fluorene	1090	330	"	3330	32.8	30-120		30
Indeno (1,2,3-cd) pyrene	2190	220	"	3330	65.6	30-120		30
Naphthalene	842	330	"	3330	25.2	30-120		30

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Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Summit Scientific**

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

**Batch 0062101 - EPA 3550A**

**LCS (0062101-BS1)**

Prepared: 06/21/10 Analyzed: 06/23/10

Phenanthrene	1140	330	ug/kg	3330		34.4	30-120	30	
Pyrene	7120	330	"	3330		214	30-120	30	
<i>Surrogate: 2-Fluorophenol</i>	822		"	3330		24.7	20-121		
<i>Surrogate: Phenol-d6</i>	920		"	3330		27.6	24-113		
<i>Surrogate: Nitrobenzene-d5</i>	1740		"	3330		52.2	23-120		
<i>Surrogate: 2-Fluorobiphenyl</i>	1910		"	3330		57.4	30-115		
<i>Surrogate: 2,4,6-Tribromophenol</i>	1170		"	6670		17.5	20-85.7		
<i>Surrogate: Terphenyl-d14</i>	7390		"	6670		111	20-137		

**Matrix Spike (0062101-MS1)**

Source: R006091-04

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	2010	330	ug/kg	3330	ND	60.3	30-120	30	
Acenaphthylene	1030	330	"	3330	ND	31.0	30-120	30	
Anthracene	1240	330	"	3330	ND	37.1	30-120	30	
Benzo (a) anthracene	3680	220	"	3330	ND	110	30-120	30	
Benzo (b) fluoranthene	3180	220	"	3330	ND	95.6	30-120	30	
Benzo (k) fluoranthene	4140	330	"	3330	ND	124	30-120	30	
Benzo (g,h,i) perylene	3530	330	"	3330	ND	106	30-120	30	
Benzo (a) pyrene	4030	62	"	3330	ND	121	30-120	30	
Chrysene	3530	330	"	3330	ND	106	30-120	30	
Dibenz (a,h) anthracene	3760	62	"	3330	ND	113	30-120	30	
Fluoranthene	1400	330	"	3330	ND	42.1	30-120	30	
Fluorene	1130	330	"	3330	ND	34.0	30-120	30	
Indeno (1,2,3-cd) pyrene	3230	220	"	3330	ND	96.8	30-120	30	
Naphthalene	855	330	"	3330	ND	25.7	30-120	30	
Phenanthrene	1170	330	"	3330	ND	35.1	30-120	30	
Pyrene	6810	330	"	3330	ND	204	30-120	30	
<i>Surrogate: 2-Fluorophenol</i>	814		"	3330		24.4	20-121		
<i>Surrogate: Phenol-d6</i>	980		"	3330		29.4	24-113		
<i>Surrogate: Nitrobenzene-d5</i>	1800		"	3330		54.1	23-120		
<i>Surrogate: 2-Fluorobiphenyl</i>	1970		"	3330		59.2	30-115		
<i>Surrogate: 2,4,6-Tribromophenol</i>	1140		"	6670		17.0	20-85.7		
<i>Surrogate: Terphenyl-d14</i>	7170		"	6670		107	20-137		

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Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**Summit Scientific**

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

**Batch 0062101 - EPA 3550A**

**Matrix Spike Dup (0062101-MSD1)**

Source: R006091-04

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	1990	330	ug/kg	3330	ND	59.7	30-120	1.12	30
Acenaphthylene	1040	330	"	3330	ND	31.1	30-120	0.451	30
Anthracene	1220	330	"	3330	ND	36.5	30-120	1.60	30
Benzo (a) anthracene	3580	220	"	3330	ND	107	30-120	2.77	30
Benzo (b) fluoranthene	3320	220	"	3330	ND	99.5	30-120	4.04	30
Benzo (k) fluoranthene	4210	330	"	3330	ND	126	30-120	1.62	30
Benzo (g,h,i) perylene	2460	330	"	3330	ND	73.8	30-120	35.7	30
Benzo (a) pyrene	3960	62	"	3330	ND	119	30-120	1.68	30
Chrysene	3440	330	"	3330	ND	103	30-120	2.45	30
Dibenz (a,h) anthracene	3010	62	"	3330	ND	90.4	30-120	22.0	30
Fluoranthene	1380	330	"	3330	ND	41.3	30-120	1.75	30
Fluorene	1130	330	"	3330	ND	33.9	30-120	0.206	30
Indeno (1,2,3-cd) pyrene	2520	220	"	3330	ND	75.7	30-120	24.5	30
Naphthalene	834	330	"	3330	ND	25.0	30-120	2.49	30
Phenanthrene	1160	330	"	3330	ND	34.9	30-120	0.657	30
Pyrene	6750	330	"	3330	ND	202	30-120	0.895	30
<i>Surrogate: 2-Fluorophenol</i>	<i>801</i>		<i>"</i>	<i>3330</i>		<i>24.0</i>	<i>20-121</i>		
<i>Surrogate: Phenol-d6</i>	<i>968</i>		<i>"</i>	<i>3330</i>		<i>29.0</i>	<i>24-113</i>		
<i>Surrogate: Nitrobenzene-d5</i>	<i>1780</i>		<i>"</i>	<i>3330</i>		<i>53.3</i>	<i>23-120</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1980</i>		<i>"</i>	<i>3330</i>		<i>59.5</i>	<i>30-115</i>		
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1170</i>		<i>"</i>	<i>6670</i>		<i>17.5</i>	<i>20-85.7</i>		
<i>Surrogate: Terphenyl-d14</i>	<i>7210</i>		<i>"</i>	<i>6670</i>		<i>108</i>	<i>20-137</i>		

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Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/24/10 14:38

### 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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June 27, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/24/10 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 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	R006142-01	Soil	06/24/10 00:00	06/24/10 17:00
S02	R006142-02	Soil	06/24/10 00:00	06/24/10 17:00
S03	R006142-03	Soil	06/24/10 00:00	06/24/10 17:00
S04	R006142-04	Soil	06/24/10 00:00	06/24/10 17:00
S05	R006142-05	Soil	06/24/10 00:00	06/24/10 17:00
S06	R006142-06	Soil	06/24/10 00:00	06/24/10 17:00
S07	R006142-07	Soil	06/24/10 00:00	06/24/10 17:00
S08	R006142-08	Soil	06/24/10 00:00	06/24/10 17:00
S09	R006142-09	Soil	06/24/10 00:00	06/24/10 17:00
S10	R006142-10	Soil	06/24/10 00:00	06/24/10 17:00
S11	R006142-11	Soil	06/24/10 00:00	06/24/10 17:00

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

Reported:  
06/27/10 15:17

# Summit Scientific <sup>S<sub>2</sub></sup> PDC 10016.05

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9310 • 303-277-9531 Fax

Page 1 of 2

Client: LT Environmental, Inc. Project Manager: Brian Dodek  
Address: 4600 West 60th Avenue E-Mail: bdodek@ltenv.com  
City/State/Zip: Arvada, CO 80003 Project Name: Wacker 2, 10D-10, 10D  
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Number: PDC 10016.05  
Sampler Name: Burkholder

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:					Special Instructions		
				HCl	HNO <sub>3</sub>	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO/GRO	GBTEX	BTEX	Table 9.10 Full		Table 9.10 Short	PH / EC
S01	6/24/10		1														
S02			1														
S03			1														
S04			1														
S05			1														
S06			1														
S07			1														
S08			1														
S09			1														
S10			1														
Relinquished by:	Date/Time:	Received by:		Date/Time:	Turn Around Time (Check)		Sample Integrity:		Temperature Upon Receipt:		Intact:		Notes:				
	6/24/10 1700	6/24/10		6/24/10	72 Hours Standard		54		54		Yes						

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S01**  
**R006142-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.3 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S02**  
**R006142-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S03**  
**R006142-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		107 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S04**  
**R006142-04 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S05**  
**R006142-05 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		115 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	79.6-120		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S06**  
**R006142-06 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	79.6-120		"	"	"	"	

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Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S07**  
**R006142-07 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.7 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	79.6-120		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S08**  
**R006142-08 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S09**  
**R006142-09 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	79.6-120		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S10**  
**R006142-10 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.7 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**S11**  
**R006142-11 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.026</b>	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
<b>Toluene</b>	<b>0.0086</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.060</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.74</b>	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**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 0062502 - EPA 3550A**

<b>Blank (0062502-BLK1)</b>			Prepared & Analyzed: 06/25/10								
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.5</i>	<i>88.8-124</i>				
<b>LCS (0062502-BS1)</b>			Prepared & Analyzed: 06/25/10								
C10-C28 (DRO)	441	50	mg/kg	500		88.2	81.4-129			9.26	
<b>LCS Dup (0062502-BSD1)</b>			Prepared & Analyzed: 06/25/10								
C10-C28 (DRO)	443	50	mg/kg	500		88.7	81.4-129	0.539		9.26	
<b>Matrix Spike (0062502-MS1)</b>			<b>Source: R006142-01</b>		Prepared & Analyzed: 06/25/10						
C10-C28 (DRO)	461	50	mg/kg	500	ND	92.3	77.8-133			8.48	
<b>Matrix Spike Dup (0062502-MSD1)</b>			<b>Source: R006142-01</b>		Prepared & Analyzed: 06/25/10						
C10-C28 (DRO)	457	50	mg/kg	500	ND	91.3	77.8-133	1.06		8.48	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**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 0062503 - EPA 5030 Soil MS**

**Blank (0062503-BLK1)**

Prepared & Analyzed: 06/25/10

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>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>79.6-120</i>			

**LCS (0062503-BS1)**

Prepared & Analyzed: 06/25/10

Benzene	0.0789	0.0050	mg/kg	0.100		78.9	70.2-125	2.40	11.1	
Toluene	0.0774	0.0050	"	0.100		77.4	74-123	2.94	10.9	
Ethylbenzene	0.0830	0.0050	"	0.100		83.0	70-130	3.13	20	
m,p-Xylene	0.152	0.010	"	0.200		76.0	70-130	3.36	20	
o-Xylene	0.0772	0.0050	"	0.100		77.2	70-130	2.91	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>79.6-120</i>			

**LCS Dup (0062503-BSD1)**

Prepared & Analyzed: 06/25/10

Benzene	0.0808	0.0050	mg/kg	0.100		80.8	70.2-125	2.40	11.1	
Toluene	0.0797	0.0050	"	0.100		79.7	74-123	2.94	10.9	
Ethylbenzene	0.0856	0.0050	"	0.100		85.6	70-130	3.13	20	
m,p-Xylene	0.157	0.010	"	0.200		78.6	70-130	3.36	20	
o-Xylene	0.0795	0.0050	"	0.100		79.5	70-130	2.91	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>79.6-120</i>			

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

**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 0062503 - EPA 5030 Soil MS**

<b>Matrix Spike (0062503-MS1)</b>	<b>Source: R006142-01</b>			<b>Prepared &amp; Analyzed: 06/25/10</b>						
Benzene	0.0874	0.0050	mg/kg	0.100	ND	87.4	67.1-125	4.43	17.9	
Toluene	0.0863	0.0050	"	0.100	ND	86.3	68.6-124	3.15	11.9	
Ethylbenzene	0.0924	0.0050	"	0.100	ND	92.4	70-130	3.51	20	
m,p-Xylene	0.167	0.010	"	0.200	ND	83.6	70-130	3.51	20	
o-Xylene	0.0847	0.0050	"	0.100	ND	84.7	70-130	4.16	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>79.6-120</i>			

<b>Matrix Spike Dup (0062503-MSD1)</b>	<b>Source: R006142-01</b>			<b>Prepared &amp; Analyzed: 06/25/10</b>						
Benzene	0.0914	0.0050	mg/kg	0.100	ND	91.4	67.1-125	4.43	17.9	
Toluene	0.0890	0.0050	"	0.100	ND	89.0	68.6-124	3.15	11.9	
Ethylbenzene	0.0957	0.0050	"	0.100	ND	95.7	70-130	3.51	20	
m,p-Xylene	0.173	0.010	"	0.200	ND	86.6	70-130	3.51	20	
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130	4.16	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>79.6-120</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05  
Project Manager: Brian Dodek

**Reported:**  
06/27/10 15:17

### 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

April 04, 2011

Aimee Cole

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 10D, 2D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 03/31/11 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
Project Manager: Aimee Cole

**Reported:**  
04/04/11 10:22

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R104002-01	Water	03/31/11 12:20	03/31/11 16:45
BH03	R104002-02	Water	03/31/11 12:15	03/31/11 16:45





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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
 Project Manager: Aimee Cole

**Reported:**  
 04/04/11 10:22

**BH01**  
**R104002-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/31/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040107	04/01/11	04/03/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/31/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>57.9-139</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>96.7 %</i>	<i>83.1-115</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.9 %</i>	<i>80.8-120</i>		"	"	"	"	



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
 Project Manager: Aimee Cole

**Reported:**  
 04/04/11 10:22

**BH03**  
**R104002-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/31/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040107	04/01/11	04/03/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/31/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.8 %	80.8-120		"	"	"	"	



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
Project Manager: Aimee Cole

**Reported:**  
04/04/11 10:22

**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 1040107 - EPA 5030 Water MS**

**Blank (1040107-BLK1)**

Prepared: 04/01/11 Analyzed: 04/03/11

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>14.4</i>		<i>"</i>	<i>13.3</i>	<i>108</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.2</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.7</i>	<i>80.8-120</i>					

**LCS (1040107-BS1)**

Prepared: 04/01/11 Analyzed: 04/03/11

Benzene	28.5	1.0	ug/l	33.3	85.5	60.1-131			10.9		
Toluene	32.2	1.0	"	33.3	96.8	65.9-127			11.3		
Ethylbenzene	35.1	1.0	"	33.3	105	65.1-129			20		
m,p-Xylene	74.4	2.0	"	66.7	112	66.8-127			20		
o-Xylene	35.4	1.0	"	33.3	106	61.2-120			20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.6</i>		<i>"</i>	<i>13.3</i>	<i>110</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>	<i>98.5</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>	<i>96.7</i>	<i>80.8-120</i>					

**LCS Dup (1040107-BSD1)**

Prepared: 04/01/11 Analyzed: 04/03/11

Benzene	28.1	1.0	ug/l	33.3	84.4	60.1-131	1.31		10.9		
Toluene	32.4	1.0	"	33.3	97.1	65.9-127	0.371		11.3		
Ethylbenzene	34.8	1.0	"	33.3	104	65.1-129	0.886		20		
m,p-Xylene	73.1	2.0	"	66.7	110	66.8-127	1.65		20		
o-Xylene	34.9	1.0	"	33.3	105	61.2-120	1.54		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>13.2</i>		<i>"</i>	<i>13.3</i>	<i>98.9</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.4</i>	<i>80.8-120</i>					



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
Project Manager: Aimee Cole

**Reported:**  
04/04/11 10:22

**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 1040107 - EPA 5030 Water MS**

<b>Matrix Spike (1040107-MS1)</b>	<b>Source: R103177-01</b>			Prepared: 04/01/11		Analyzed: 04/03/11			
Benzene	30.8	1.0	ug/l	33.3	ND	92.4	52.7-130	3.51	19.3
Toluene	35.2	1.0	"	33.3	ND	106	57-127	1.35	18.7
Ethylbenzene	38.2	1.0	"	33.3	ND	115	59.2-127	1.71	20
m,p-Xylene	80.3	2.0	"	66.7	1.04	119	53.2-132	1.52	20
o-Xylene	38.6	1.0	"	33.3	ND	116	56.3-117	1.59	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>57.9-139</i>		
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>83.1-115</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.0</i>	<i>80.8-120</i>		
<b>Matrix Spike Dup (1040107-MSD1)</b>	<b>Source: R103177-01</b>			Prepared: 04/01/11		Analyzed: 04/03/11			
Benzene	31.9	1.0	ug/l	33.3	ND	95.7	52.7-130	3.51	19.3
Toluene	35.7	1.0	"	33.3	ND	107	57-127	1.35	18.7
Ethylbenzene	38.9	1.0	"	33.3	ND	117	59.2-127	1.71	20
m,p-Xylene	81.6	2.0	"	66.7	1.04	121	53.2-132	1.52	20
o-Xylene	39.2	1.0	"	33.3	ND	118	56.3-117	1.59	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>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.4</i>	<i>83.1-115</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.1</i>	<i>80.8-120</i>		



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016  
Project Manager: Aimee Cole

**Reported:**  
04/04/11 10:22

### 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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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 04/29/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:11

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05R	R104177-01	Water	04/29/11 13:00	04/29/11 17:00
BH02R	R104177-02	Water	04/29/11 13:20	04/29/11 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:11

**BH05R**  
**R104177-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/29/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1050401	05/04/11	05/06/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/29/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>104 %</i>	<i>57.9-139</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>97.4 %</i>	<i>83.1-115</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>80.8-120</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:11

**BH02R**  
**R104177-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/29/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1050401	05/04/11	05/06/11	EPA 8260B	
<b>Toluene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/29/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:11

**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 1050401 - EPA 5030 Water MS**

**Blank (1050401-BLK1)**

Prepared & Analyzed: 05/04/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	103	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.0	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3	96.6	80.8-120				

**LCS (1050401-BS1)**

Prepared & Analyzed: 05/04/11

Benzene	34.9	1.0	ug/l	33.3	105	60.1-131		10.9		
Toluene	33.0	1.0	"	33.3	99.1	65.9-127		11.3		
Ethylbenzene	35.2	1.0	"	33.3	106	65.1-129		20		
m,p-Xylene	68.2	2.0	"	66.7	102	66.8-127		20		
o-Xylene	33.3	1.0	"	33.3	99.9	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.3	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.1	80.8-120				

**LCS Dup (1050401-BSD1)**

Prepared & Analyzed: 05/04/11

Benzene	35.1	1.0	ug/l	33.3	105	60.1-131	0.485	10.9		
Toluene	33.2	1.0	"	33.3	99.7	65.9-127	0.604	11.3		
Ethylbenzene	34.7	1.0	"	33.3	104	65.1-129	1.40	20		
m,p-Xylene	68.1	2.0	"	66.7	102	66.8-127	0.103	20		
o-Xylene	33.7	1.0	"	33.3	101	61.2-120	1.16	20		
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3	109	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.5	80.8-120				

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:11

**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 1050401 - EPA 5030 Water MS**

<b>Matrix Spike (1050401-MS1)</b>	<b>Source: R104175-01</b>			<b>Prepared &amp; Analyzed: 05/04/11</b>						
Benzene	34.5	1.0	ug/l	33.3	1.09	100	52.7-130			19.3
Toluene	35.0	1.0	"	33.3	2.39	98.0	57-127			18.7
Ethylbenzene	43.2	1.0	"	33.3	9.93	99.7	59.2-127			20
m,p-Xylene	77.2	2.0	"	66.7	11.5	98.6	53.2-132			20
o-Xylene	81.6	1.0	"	33.3	46.6	105	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.8</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (1050401-MSD1)</b>	<b>Source: R104175-01</b>			<b>Prepared &amp; Analyzed: 05/04/11</b>						
Benzene	34.1	1.0	ug/l	33.3	1.09	99.0	52.7-130	1.20		19.3
Toluene	34.6	1.0	"	33.3	2.39	96.7	57-127	1.26		18.7
Ethylbenzene	43.3	1.0	"	33.3	9.93	100	59.2-127	0.370		20
m,p-Xylene	78.5	2.0	"	66.7	11.5	101	53.2-132	1.66		20
o-Xylene	80.6	1.0	"	33.3	46.6	102	56.3-117	1.24		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.6</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:11

### 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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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

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/22/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:08

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R106147-01	Water	06/22/11 10:00	06/22/11 16:50
BH03	R106147-02	Water	06/22/11 10:20	06/22/11 16:50
BH02R	R106147-03	Water	06/22/11 10:40	06/22/11 16:50
BH05R	R106147-04	Water	06/22/11 11:00	06/22/11 16:50

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:08

**BH01**  
**R106147-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/11 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/11 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>57.9-139</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>91.7 %</i>	<i>83.1-115</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.8 %</i>	<i>80.8-120</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:08

**BH03**  
**R106147-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/11 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/11 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.5 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:08

**BH02R**  
**R106147-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/11 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/11 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
 Project Manager: Brian Dodek

**Reported:**  
 06/30/11 10:08

**BH05R**  
**R106147-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/11 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/11 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:08

**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 1062407 - EPA 5030 Water MS**

**Blank (1062407-BLK1)**

Prepared & Analyzed: 06/24/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		116	57.9-139				
Surrogate: Toluene-d8	12.8		"	13.3		96.4	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	80.8-120				

**LCS (1062407-BS1)**

Prepared & Analyzed: 06/24/11

Benzene	28.7	1.0	ug/l	33.3		86.1	60.1-131		10.9		
Toluene	31.4	1.0	"	33.3		94.2	65.9-127		11.3		
Ethylbenzene	33.6	1.0	"	33.3		101	65.1-129		20		
m,p-Xylene	69.2	2.0	"	66.7		104	66.8-127		20		
o-Xylene	32.8	1.0	"	33.3		98.3	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3		115	57.9-139				
Surrogate: Toluene-d8	12.2		"	13.3		91.7	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.8	80.8-120				

**LCS Dup (1062407-BSD1)**

Prepared & Analyzed: 06/24/11

Benzene	28.6	1.0	ug/l	33.3		85.9	60.1-131	0.244	10.9		
Toluene	31.2	1.0	"	33.3		93.8	65.9-127	0.447	11.3		
Ethylbenzene	32.3	1.0	"	33.3		97.0	65.1-129	3.91	20		
m,p-Xylene	67.6	2.0	"	66.7		101	66.8-127	2.28	20		
o-Xylene	31.9	1.0	"	33.3		95.8	61.2-120	2.60	20		
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		116	57.9-139				
Surrogate: Toluene-d8	12.4		"	13.3		93.0	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	80.8-120				

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:08

**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 1062407 - EPA 5030 Water MS**

**Matrix Spike (1062407-MS1)**

**Source: R106140-01**

Prepared & Analyzed: 06/24/11

Benzene	30.8	1.0	ug/l	33.3	ND	92.6	52.7-130		19.3	
Toluene	32.8	1.0	"	33.3	ND	98.3	57-127		18.7	
Ethylbenzene	34.0	1.0	"	33.3	ND	102	59.2-127		20	
m,p-Xylene	71.0	2.0	"	66.7	ND	107	53.2-132		20	
o-Xylene	34.4	1.0	"	33.3	ND	103	56.3-117		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.4</i>		<i>"</i>	<i>13.3</i>		<i>116</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.8</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</i>			

**Matrix Spike Dup (1062407-MSD1)**

**Source: R106140-01**

Prepared & Analyzed: 06/24/11

Benzene	29.9	1.0	ug/l	33.3	ND	89.7	52.7-130	3.13	19.3	
Toluene	32.0	1.0	"	33.3	ND	96.0	57-127	2.41	18.7	
Ethylbenzene	33.5	1.0	"	33.3	ND	100	59.2-127	1.60	20	
m,p-Xylene	69.4	2.0	"	66.7	ND	104	53.2-132	2.34	20	
o-Xylene	33.8	1.0	"	33.3	ND	101	56.3-117	1.88	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.2</i>		<i>"</i>	<i>13.3</i>		<i>114</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.1</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>80.8-120</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02  
Project Manager: Brian Dodek

**Reported:**  
06/30/11 10:08

### 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

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 23, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 08/18/11 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director





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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 08/23/11 08:48

**BH04R**  
**R108135-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/18/11 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>9.2</b>	1.0	ug/l	1	1081903	08/19/11	08/20/11	EPA 8260B	
<b>Toluene</b>	<b>3.7</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>36</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.7</b>	1.0	"	"	"	"	08/20/11	"	

Date Sampled: **08/18/11 10:35**

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

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
08/23/11 08:48

**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 1081903 - EPA 5030 Water MS**

**Blank (1081903-BLK1)**

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	57.9-139				
Surrogate: Toluene-d8	13.6		"	13.3		102	83.1-115				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	80.8-120				

**LCS (1081903-BS1)**

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	35.8	1.0	ug/l	33.3		108	60.1-131		10.9		
Toluene	36.1	1.0	"	33.3		108	65.9-127		11.3		
Ethylbenzene	35.4	1.0	"	33.3		106	65.1-129		20		
m,p-Xylene	64.9	2.0	"	66.7		97.4	66.8-127		20		
o-Xylene	35.2	1.0	"	33.3		106	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3		102	57.9-139				
Surrogate: Toluene-d8	14.1		"	13.3		106	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	80.8-120				

**LCS Dup (1081903-BSD1)**

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	37.6	1.0	ug/l	33.3		113	60.1-131	4.69	10.9		
Toluene	37.7	1.0	"	33.3		113	65.9-127	4.31	11.3		
Ethylbenzene	37.2	1.0	"	33.3		112	65.1-129	4.90	20		
m,p-Xylene	67.8	2.0	"	66.7		102	66.8-127	4.38	20		
o-Xylene	36.8	1.0	"	33.3		110	61.2-120	4.36	20		
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	57.9-139				
Surrogate: Toluene-d8	14.1		"	13.3		106	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	80.8-120				

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
08/23/11 08:48

### 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 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 09/23/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/30/11 14:44

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R109145-01	Water	09/23/11 13:00	09/23/11 16:50
MW02R	R109145-02	Water	09/23/11 12:15	09/23/11 16:50
MW03	R109145-03	Water	09/23/11 11:45	09/23/11 16:50
MW04R	R109145-04	Water	09/23/11 11:20	09/23/11 16:50
MW05R	R109145-05	Water	09/23/11 12:35	09/23/11 16:50

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/30/11 14:44

**MW01**  
**R109145-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.2 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>106 %</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/30/11 14:44

**MW02R**  
**R109145-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/30/11 14:44

**MW03**  
**R109145-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/11 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/30/11 14:44

**MW04R**  
**R109145-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/11 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>36</b>	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>68</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>730</b>	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/30/11 14:44

**MW05R**  
**R109145-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/23/11 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>98.2 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>104 %</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/30/11 14:44

**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 1092707 - EPA 5030 Water MS**

**Blank (1092707-BLK1)**

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	57.9-139					
Surrogate: Toluene-d8	13.2		"	13.3	98.6	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3	103	80.8-120					

**LCS (1092707-BS1)**

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	39.9	1.0	ug/l	33.3	120	60.1-131		10.9			
Toluene	41.0	1.0	"	33.3	123	65.9-127		11.3			
Ethylbenzene	41.1	1.0	"	33.3	123	65.1-129		20			
m,p-Xylene	75.4	2.0	"	66.7	113	66.8-127		20			
o-Xylene	40.1	1.0	"	33.3	120	61.2-120		20			
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3	107	57.9-139					
Surrogate: Toluene-d8	14.0		"	13.3	105	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.8	80.8-120					

**LCS Dup (1092707-BSD1)**

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	37.2	1.0	ug/l	33.3	112	60.1-131	7.11	10.9			
Toluene	36.9	1.0	"	33.3	111	65.9-127	10.4	11.3			
Ethylbenzene	38.0	1.0	"	33.3	114	65.1-129	7.81	20			
m,p-Xylene	70.8	2.0	"	66.7	106	66.8-127	6.23	20			
o-Xylene	38.9	1.0	"	33.3	117	61.2-120	3.04	20			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	104	57.9-139					
Surrogate: Toluene-d8	13.6		"	13.3	102	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	98.7	80.8-120					

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/30/11 14:44

**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 1092707 - EPA 5030 Water MS**

<b>Matrix Spike (1092707-MS1)</b>	<b>Source: R109147-02</b>			Prepared: 09/27/11		Analyzed: 09/28/11				
Benzene	39.8	1.0	ug/l	33.3	ND	119	52.7-130	6.47	19.3	
Toluene	39.3	1.0	"	33.3	ND	118	57-127	1.19	18.7	
Ethylbenzene	40.0	1.0	"	33.3	ND	120	59.2-127	5.54	20	
m,p-Xylene	74.7	2.0	"	66.7	ND	112	53.2-132	7.50	20	
o-Xylene	38.8	1.0	"	33.3	ND	116	56.3-117	8.49	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>97.0</i>	<i>80.8-120</i>			
<b>Matrix Spike Dup (1092707-MSD1)</b>	<b>Source: R109147-02</b>			Prepared: 09/27/11		Analyzed: 09/28/11				
Benzene	42.5	1.0	ug/l	33.3	ND	127	52.7-130	6.47	19.3	
Toluene	39.8	1.0	"	33.3	ND	119	57-127	1.19	18.7	
Ethylbenzene	42.3	1.0	"	33.3	ND	127	59.2-127	5.54	20	
m,p-Xylene	80.5	2.0	"	66.7	ND	121	53.2-132	7.50	20	
o-Xylene	35.6	1.0	"	33.3	ND	107	56.3-117	8.49	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.9</i>	<i>80.8-120</i>			

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/30/11 14:44

### 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 19, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 12/08/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/19/11 17:10

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R112051-01	Water	12/08/11 11:30	12/08/11 17:00
BH02	R112051-02	Water	12/08/11 11:35	12/08/11 17:00
BH03	R112051-03	Water	12/08/11 11:40	12/08/11 17:00
BH04	R112051-04	Water	12/08/11 11:45	12/08/11 17:00
BH05	R112051-05	Water	12/08/11 11:50	12/08/11 17:00

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/19/11 17:10

**BH01**  
**R112051-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/08/11 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.5 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/19/11 17:10

**BH02**  
**R112051-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/08/11 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	80.8-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/19/11 17:10

**BH03**  
**R112051-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/08/11 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>42</b>	1.0	ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.0 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.7 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/19/11 17:10

**BH04**  
**R112051-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/08/11 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/17/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>5.7</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>22</b>	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.9 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.8 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/19/11 17:10

**BH05**  
**R112051-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/08/11 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/17/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/19/11 17:10

**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 1121209 - EPA 5030 Water MS**

**Blank (1121209-BLK1)**

Prepared & Analyzed: 12/12/11

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	100	57.9-139					
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115					
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3	106	80.8-120					

**Blank (1121209-BLK2)**

Prepared & Analyzed: 12/12/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	103	57.9-139					
Surrogate: Toluene-d8	13.4		"	13.3	101	83.1-115					
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3	107	80.8-120					

**LCS (1121209-BS1)**

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	36.3	1.0	ug/l	33.3	109	60.1-131			10.9		
Toluene	36.6	1.0	"	33.3	110	65.9-127			11.3		
Ethylbenzene	37.0	1.0	"	33.3	111	65.1-129			20		
m,p-Xylene	72.6	2.0	"	66.7	109	66.8-127			20		
o-Xylene	36.4	1.0	"	33.3	109	61.2-120			20		
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3	98.9	57.9-139					
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.0	80.8-120					

**LCS (1121209-BS2)**

Prepared: 12/12/11 Analyzed: 12/19/11

Benzene	35.5	1.0	ug/l	33.3	106	60.1-131			10.9		
Toluene	36.1	1.0	"	33.3	108	65.9-127			11.3		
Ethylbenzene	34.5	1.0	"	33.3	104	65.1-129			20		
m,p-Xylene	73.2	2.0	"	66.7	110	66.8-127			20		
o-Xylene	36.0	1.0	"	33.3	108	61.2-120			20		
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3	99.8	57.9-139					
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3	102	80.8-120					

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/19/11 17:10

**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 1121209 - EPA 5030 Water MS**

**LCS Dup (1121209-BSD1)**

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	38.4	1.0	ug/l	33.3	115	60.1-131	5.57	10.9	
Toluene	37.0	1.0	"	33.3	111	65.9-127	1.14	11.3	
Ethylbenzene	37.7	1.0	"	33.3	113	65.1-129	1.90	20	
m,p-Xylene	74.2	2.0	"	66.7	111	66.8-127	2.06	20	
o-Xylene	37.6	1.0	"	33.3	113	61.2-120	3.30	20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	57.9-139			
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	103	80.8-120			

**LCS Dup (1121209-BSD2)**

Prepared: 12/12/11 Analyzed: 12/19/11

Benzene	38.4	1.0	ug/l	33.3	115	60.1-131	7.85	10.9	
Toluene	37.0	1.0	"	33.3	111	65.9-127	2.46	11.3	
Ethylbenzene	37.7	1.0	"	33.3	113	65.1-129	8.86	20	
m,p-Xylene	74.2	2.0	"	66.7	111	66.8-127	1.36	20	
o-Xylene	37.6	1.0	"	33.3	113	61.2-120	4.35	20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	57.9-139			
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	104	80.8-120			

**Matrix Spike (1121209-MS1)**

Source: R112040-01

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	37.2	1.0	ug/l	33.3	ND	112	52.7-130	19.3	
Toluene	36.2	1.0	"	33.3	ND	109	57-127	18.7	
Ethylbenzene	35.8	1.0	"	33.3	ND	107	59.2-127	20	
m,p-Xylene	70.2	2.0	"	66.7	ND	105	53.2-132	20	
o-Xylene	35.1	1.0	"	33.3	ND	105	56.3-117	20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	57.9-139		
Surrogate: Toluene-d8	14.5		"	13.3		109	83.1-115		
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	80.8-120		

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/19/11 17:10

**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 1121209 - EPA 5030 Water MS**

<b>Matrix Spike (1121209-MS2)</b>	<b>Source: R112040-02</b>			Prepared: 12/12/11	Analyzed: 12/16/11					
Benzene	23.5	1.0	ug/l	33.3	ND	70.5	52.7-130			19.3
Toluene	26.3	1.0	"	33.3	ND	79.0	57-127			18.7
Ethylbenzene	26.6	1.0	"	33.3	ND	79.8	59.2-127			20
m,p-Xylene	56.1	2.0	"	66.7	ND	84.1	53.2-132			20
o-Xylene	28.1	1.0	"	33.3	ND	84.4	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.8</i>		<i>"</i>	<i>13.3</i>		<i>80.7</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>94.0</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.7</i>		<i>"</i>	<i>13.3</i>		<i>87.5</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (1121209-MSD1)</b>	<b>Source: R112040-01</b>			Prepared: 12/12/11	Analyzed: 12/13/11					
Benzene	40.3	1.0	ug/l	33.3	ND	121	52.7-130	7.79		19.3
Toluene	39.2	1.0	"	33.3	ND	118	57-127	7.80		18.7
Ethylbenzene	38.3	1.0	"	33.3	ND	115	59.2-127	6.83		20
m,p-Xylene	75.2	2.0	"	66.7	ND	113	53.2-132	6.89		20
o-Xylene	37.4	1.0	"	33.3	ND	112	56.3-117	6.15		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (1121209-MSD2)</b>	<b>Source: R112040-02</b>			Prepared: 12/12/11	Analyzed: 12/16/11					
Benzene	24.8	1.0	ug/l	33.3	ND	74.3	52.7-130	5.18		19.3
Toluene	27.3	1.0	"	33.3	ND	82.0	57-127	3.76		18.7
Ethylbenzene	27.4	1.0	"	33.3	ND	82.2	59.2-127	2.93		20
m,p-Xylene	57.5	2.0	"	66.7	ND	86.2	53.2-132	2.48		20
o-Xylene	28.9	1.0	"	33.3	ND	86.8	56.3-117	2.87		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.2</i>		<i>"</i>	<i>13.3</i>		<i>84.4</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.4</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.8</i>		<i>"</i>	<i>13.3</i>		<i>88.5</i>	<i>80.8-120</i>			

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/19/11 17:10

### 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

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# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 09, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
04/09/12 16:05

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R203224-01	Water	03/29/12 11:20	03/29/12 16:30
BH02R	R203224-02	Water	03/29/12 11:10	03/29/12 16:30
BH03	R203224-03	Water	03/29/12 10:50	03/29/12 16:30
BH04R	R203224-04	Water	03/29/12 10:35	03/29/12 16:30
BH05R	R203224-05	Water	03/29/12 11:35	03/29/12 16:30

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

Reported:  
04/09/12 16:05

Summit Scientific

203224

741 Corporate Circle Suite 1 • Golden, Colorado 80001  
303-277-9310 • 303-277-9531 Fax

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 433-9788  
Sample Name: Delta G-1  
Project Manager: Brian Dodek  
E-Mail: bdodek@ltenv.com  
Project Name: Wacker 2, 3, 10, 10D  
Project Number: PDC 10016.001

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions	Notes	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	PH / EC	SAR			Table 910.1 metals
BAC1	3-29-12	1120	3	X			X											
BAC2		1110																
BAC3		1056																
BAC4		1025																
BAC5		1135																
Relinquished by: <u>[Signature]</u> Date/Time: <u>3-29-12 1630</u>				Received by: <u>[Signature]</u> Date/Time: <u>3-29-12 1630</u>				Turn Around Time (Check): <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours				Sample Integrity: <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard				Temperature Upon Receipt: <u>55</u>		
Relinquished by: <u>[Signature]</u> Date/Time: <u>3-29-12 1630</u>				Received by: <u>[Signature]</u> Date/Time: <u>3-29-12 1630</u>				Sample Integrity: <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard				Temperature Upon Receipt: <u>55</u>				Inact: <input checked="" type="checkbox"/> / No		

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[Signature]



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 04/09/12 16:05

**BH01**  
**R203224-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/29/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 04/09/12 16:05

**BH02R**  
**R203224-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/29/12 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.8 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.1 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 04/09/12 16:05

**BH03**  
**R203224-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/29/12 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>96.0 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.1 %</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 04/09/12 16:05

**BH04R**  
**R203224-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/29/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.5 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 04/09/12 16:05

**BH05R**  
**R203224-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/29/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/09/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
04/09/12 16:05

**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 2040312 - EPA 5030 Water MS**

**Blank (2040312-BLK1)**

Prepared: 04/03/12 Analyzed: 04/04/12

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>105</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.4</i>	<i>99.4</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.4</i>	<i>95.5</i>	<i>80.8-120</i>					

**LCS (2040312-BS1)**

Prepared: 04/03/12 Analyzed: 04/05/12

Benzene	90.6	1.0	ug/l	100	90.6	60.1-131					
Toluene	99.4	1.0	"	100	99.4	65.9-127					
Ethylbenzene	116	1.0	"	100	116	65.1-129					
m,p-Xylene	222	2.0	"	200	111	66.8-127					
o-Xylene	104	1.0	"	100	104	61.2-120					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>	<i>106</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.4</i>	<i>99.6</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.4</i>	<i>97.7</i>	<i>80.8-120</i>					

**LCS Dup (2040312-BSD1)**

Prepared: 04/03/12 Analyzed: 04/05/12

Benzene	90.2	1.0	ug/l	100	90.2	60.1-131	0.453	10.9			
Toluene	100	1.0	"	100	100	65.9-127	0.951	11.3			
Ethylbenzene	119	1.0	"	100	119	65.1-129	2.13	20			
m,p-Xylene	227	2.0	"	200	114	66.8-127	2.11	20			
o-Xylene	106	1.0	"	100	106	61.2-120	2.38	20			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>	<i>104</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.4</i>	<i>98.3</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.4</i>	<i>97.2</i>	<i>80.8-120</i>					

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
04/09/12 16:05

**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 2040312 - EPA 5030 Water MS**

<b>Matrix Spike (2040312-MS1)</b>	<b>Source: R203208-01</b>			Prepared: 04/03/12		Analyzed: 04/05/12				
Benzene	91.5	1.0	ug/l	100	ND	91.5	52.7-130			
Toluene	101	1.0	"	100	ND	101	57-127			
Ethylbenzene	117	1.0	"	100	ND	117	59.2-127			
m,p-Xylene	224	2.0	"	200	ND	112	53.2-132			
o-Xylene	105	1.0	"	100	ND	105	56.3-117			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.4</i>		<i>98.8</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.4</i>		<i>96.6</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (2040312-MSD1)</b>	<b>Source: R203208-01</b>			Prepared: 04/03/12		Analyzed: 04/05/12				
Benzene	92.6	1.0	ug/l	100	ND	92.6	52.7-130	1.15	19.3	
Toluene	102	1.0	"	100	ND	102	57-127	1.72	18.7	
Ethylbenzene	120	1.0	"	100	ND	120	59.2-127	2.47	20	
m,p-Xylene	231	2.0	"	200	ND	115	53.2-132	2.78	20	
o-Xylene	108	1.0	"	100	ND	108	56.3-117	2.55	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.4</i>		<i>99.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.2</i>		<i>"</i>	<i>13.4</i>		<i>99.1</i>	<i>80.8-120</i>			

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
04/09/12 16:05

### 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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Summit Scientific

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# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 28, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/22/12 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
06/28/12 18:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R206175-01	Water	06/22/12 12:05	06/22/12 17:00
BH02R	R206175-02	Water	06/22/12 12:40	06/22/12 17:00
BH03	R206175-03	Water	06/22/12 13:00	06/22/12 17:00
BH04R	R206175-04	Water	06/22/12 11:35	06/22/12 17:00
BH05R	R206175-05	Water	06/22/12 12:15	06/22/12 17:00

Summit Scientific

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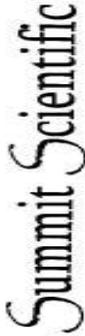
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

Reported:  
06/28/12 18:32

R206/15



S2

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9310 • 303-277-9331 Fax

Page 1 of 1

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 433-9788  
Project Manager: Brian Dodek  
E-Mail: bdodek@ltenv.com  
Project Name: Wacker 2, 22-10, 10D  
Project Number: PDC 10016.001  
Sampler Name: Devin Gartin

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions	Notes	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Soil	Air - Container Serial #	Other (Specify)	DRO	GBTEX	STEX	pH / EC	SAR			Table 910.1 metals
BH01	6-20-12	1205	3	X				X										
BH02R	↓	↓	↓															
BH03	↓	↓	↓															
BH04R	↓	↓	↓															
BH05R	↓	↓	↓															

Relinquished by: <i>[Signature]</i>	Date/Time: 6-20-12 1700	Received by: <i>[Signature]</i>	Date/Time: 6-20-12 1700	Turn Around Time (Check): Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/>	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 6-20-12 1700	Received by: <i>[Signature]</i>	Date/Time: 6-20-12 1700	Sample Integrity: Temperature Receipt: <input checked="" type="checkbox"/> 5.0 Inact: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 06/28/12 18:32

**BH01**  
**R206175-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>	<i>49.7-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>91.1 %</i>	<i>51-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>50.1-150</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 06/28/12 18:32

**BH02R**  
**R206175-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.5 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 06/28/12 18:32

**BH03**  
**R206175-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.9 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 06/28/12 18:32

**BH04R**  
**R206175-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>7.8</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>26</b>	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
 Project Manager: Brian Dodek

**Reported:**  
 06/28/12 18:32

**BH05R**  
**R206175-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/22/12 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		81.8 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
06/28/12 18:32

**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 2062611 - EPA 5030 Water MS**

**Blank (2062611-BLK1)**

Prepared & Analyzed: 06/26/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.9	27.8-167			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	27.6-157			

**LCS (2062611-BS1)**

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	34.4	1.0	ug/l	33.3		103	57.5-115			
Toluene	34.9	1.0	"	33.3		105	54-127			
Ethylbenzene	36.5	1.0	"	33.3		110	49.7-139			
m,p-Xylene	73.2	2.0	"	66.7		110	56-133			
o-Xylene	36.3	1.0	"	33.3		109	58.5-129			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	27.8-167			
Surrogate: Toluene-d8	13.2		"	13.3		98.8	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	27.6-157			

**LCS Dup (2062611-BSD1)**

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	34.8	1.0	ug/l	33.3		105	57.5-115	1.24	13.6	
Toluene	35.8	1.0	"	33.3		107	54-127	2.49	16.6	
Ethylbenzene	37.4	1.0	"	33.3		112	49.7-139	2.35	12.7	
m,p-Xylene	74.8	2.0	"	66.7		112	56-133	2.22	13.8	
o-Xylene	36.8	1.0	"	33.3		111	58.5-129	1.45	14.7	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.9	27.8-167			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.6	27.6-157			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
06/28/12 18:32

**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 2062611 - EPA 5030 Water MS**

**Matrix Spike (2062611-MS1)**

**Source: R206167-01**

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	34.7	1.0	ug/l	33.3	ND	104	37.2-135			
Toluene	35.1	1.0	"	33.3	ND	105	26.2-157			
Ethylbenzene	36.8	1.0	"	33.3	ND	110	21-162			
m,p-Xylene	73.4	2.0	"	66.7	ND	110	23.7-162			
o-Xylene	36.7	1.0	"	33.3	ND	110	28.9-156			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	27.8-167			
Surrogate: Toluene-d8	13.2		"	13.3		99.3	31.8-160			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	27.6-157			

**Matrix Spike Dup (2062611-MSD1)**

**Source: R206167-01**

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	36.6	1.0	ug/l	33.3	ND	110	37.2-135	5.52	25	
Toluene	37.2	1.0	"	33.3	ND	112	26.2-157	5.97	19.2	
Ethylbenzene	38.6	1.0	"	33.3	ND	116	21-162	4.75	21.9	
m,p-Xylene	77.1	2.0	"	66.7	ND	116	23.7-162	4.85	19.1	
o-Xylene	38.1	1.0	"	33.3	ND	114	28.9-156	3.64	20.3	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	27.8-167			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	27.6-157			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001  
Project Manager: Brian Dodek

**Reported:**  
06/28/12 18:32

### 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

September 24, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/12 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV

Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/24/12 15:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R209149-01	Water	09/20/12 11:00	09/20/12 17:05
BH02R	R209149-02	Water	09/20/12 11:20	09/20/12 17:05
BH03	R209149-03	Water	09/20/12 11:30	09/20/12 17:05
BH04R	R209149-04	Water	09/20/12 10:50	09/20/12 17:05
BH05R	R209149-05	Water	09/20/12 11:10	09/20/12 17:05

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/24/12 15:14

**BH01**  
**R209149-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/22/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.4 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/24/12 15:14

**BH02R**  
**R209149-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/22/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.4 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/24/12 15:14

**BH03**  
**R209149-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.3 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/24/12 15:14

**BH04R**  
**R209149-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/12 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.3 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 09/24/12 15:14

**BH05R**  
**R209149-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/20/12 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.6 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

Reported:  
09/24/12 15:14

**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 2092204 - EPA 5030 Water MS**

**Blank (2092204-BLK1)**

Prepared & Analyzed: 09/22/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.2		89.5	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	51-150			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.5	50.1-150			

**LCS (2092204-BS1)**

Prepared & Analyzed: 09/22/12

Benzene	23.6	1.0	ug/l	33.3		70.9	51-132			
Toluene	27.8	1.0	"	33.3		83.4	51-138			
Ethylbenzene	29.6	1.0	"	33.3		88.7	58-146			
m,p-Xylene	61.0	2.0	"	66.7		91.6	57-144			
o-Xylene	29.2	1.0	"	33.3		87.7	53-146			
Surrogate: 1,2-Dichloroethane-d4	11.1		"	13.2		83.6	49.7-150			
Surrogate: Toluene-d8	12.7		"	13.3		95.0	51-150			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	50.1-150			

**LCS Dup (2092204-BSD1)**

Prepared & Analyzed: 09/22/12

Benzene	23.7	1.0	ug/l	33.3		71.1	51-132	0.296	17	
Toluene	27.8	1.0	"	33.3		83.5	51-138	0.108	17	
Ethylbenzene	29.1	1.0	"	33.3		87.3	58-146	1.57	16	
m,p-Xylene	59.6	2.0	"	66.7		89.4	57-144	2.37	16	
o-Xylene	28.8	1.0	"	33.3		86.4	53-146	1.52	15	
Surrogate: 1,2-Dichloroethane-d4	10.9		"	13.2		82.1	49.7-150			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	51-150			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2	50.1-150			

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

Reported:  
09/24/12 15:14

**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 2092204 - EPA 5030 Water MS**

<b>Matrix Spike (2092204-MS1)</b>	<b>Source: R209140-01</b>			<b>Prepared &amp; Analyzed: 09/22/12</b>						
Benzene	27.6	1.0	ug/l	33.3	ND	82.8	34-141			
Toluene	28.0	1.0	"	33.3	ND	84.1	27-151			
Ethylbenzene	29.2	1.0	"	33.3	ND	87.5	29-160			
m,p-Xylene	60.1	2.0	"	66.7	ND	90.1	20-166			
o-Xylene	29.0	1.0	"	33.3	ND	87.0	33-159			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.2</i>		<i>"</i>	<i>13.2</i>		<i>92.3</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.5</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.7</i>	<i>50.1-150</i>			

<b>Matrix Spike Dup (2092204-MSD1)</b>	<b>Source: R209140-01</b>			<b>Prepared &amp; Analyzed: 09/22/12</b>						
Benzene	27.7	1.0	ug/l	33.3	ND	83.2	34-141	0.470	32	
Toluene	28.0	1.0	"	33.3	ND	84.0	27-151	0.0357	25	
Ethylbenzene	29.1	1.0	"	33.3	ND	87.3	29-160	0.172	50	
m,p-Xylene	59.3	2.0	"	66.7	ND	88.9	20-166	1.32	36	
o-Xylene	28.8	1.0	"	33.3	ND	86.4	33-159	0.692	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.6</i>		<i>"</i>	<i>13.2</i>		<i>95.3</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.3</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>96.8</i>	<i>50.1-150</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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
09/24/12 15:14

### 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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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 26, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 12/20/12 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV

Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/26/12 14:04

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R212131-01	Water	12/20/12 13:35	12/20/12 17:00
BH02R	R212131-02	Water	12/20/12 13:15	12/20/12 17:00
BH03	R212131-03	Water	12/20/12 13:05	12/20/12 17:00
BH05R	R212131-04	Water	12/20/12 13:25	12/20/12 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/26/12 14:04

**BH01**  
**R212131-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/20/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/26/12 14:04

**BH02R**  
**R212131-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/20/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/26/12 14:04

**BH03**  
**R212131-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/20/12 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	45-146		"	"	"	"	

Summit Scientific

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
 Project Manager: Brian Dodek

**Reported:**  
 12/26/12 14:04

**BH05R**  
**R212131-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146		"	"	"	"	

Summit Scientific

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Project Number: PDC 10016  
Project Manager: Brian Dodek

Reported:  
12/26/12 14:04

**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 2122111 - EPA 5030 Water MS**

**Blank (2122111-BLK1)**

Prepared: 12/21/12 Analyzed: 12/23/12

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		"	13.2		106	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	45-149			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	45-146			

**LCS (2122111-BS1)**

Prepared: 12/21/12 Analyzed: 12/23/12

Benzene	29.0	1.0	ug/l	33.3		86.9	51-132			
Toluene	31.1	1.0	"	33.3		93.3	51-138			
Ethylbenzene	32.4	1.0	"	33.3		97.1	58-146			
m,p-Xylene	67.0	2.0	"	66.7		101	57-144			
o-Xylene	33.1	1.0	"	33.3		99.3	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.2		111	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	45-146			

**LCS Dup (2122111-BSD1)**

Prepared: 12/21/12 Analyzed: 12/23/12

Benzene	25.7	1.0	ug/l	33.3		77.1	51-132	11.9	17	
Toluene	28.0	1.0	"	33.3		84.0	51-138	10.4	17	
Ethylbenzene	29.6	1.0	"	33.3		88.7	58-146	9.01	16	
m,p-Xylene	59.8	2.0	"	66.7		89.6	57-144	11.5	16	
o-Xylene	30.4	1.0	"	33.3		91.1	53-146	8.67	15	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.2		109	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146			

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Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
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Reported:  
12/26/12 14:04

**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 2122111 - EPA 5030 Water MS**

<b>Matrix Spike (2122111-MS1)</b>	<b>Source: R212112-01</b>			Prepared: 12/21/12		Analyzed: 12/23/12				
Benzene	25.6	1.0	ug/l	33.3	ND	76.7	34-141			
Toluene	27.8	1.0	"	33.3	ND	83.6	27-151			
Ethylbenzene	28.9	1.0	"	33.3	ND	86.8	29-160			
m,p-Xylene	59.8	2.0	"	66.7	ND	89.7	20-166			
o-Xylene	29.4	1.0	"	33.3	ND	88.3	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.2		109	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.6	45-149			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146			
<b>Matrix Spike Dup (2122111-MSD1)</b>	<b>Source: R212112-01</b>			Prepared: 12/21/12		Analyzed: 12/23/12				
Benzene	26.4	1.0	ug/l	33.3	ND	79.3	34-141	3.27	32	
Toluene	28.8	1.0	"	33.3	ND	86.3	27-151	3.25	25	
Ethylbenzene	30.4	1.0	"	33.3	ND	91.1	29-160	4.79	50	
m,p-Xylene	61.8	2.0	"	66.7	ND	92.7	20-166	3.32	36	
o-Xylene	30.9	1.0	"	33.3	ND	92.7	33-159	4.84	26	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.2		108	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

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Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016  
Project Manager: Brian Dodek

**Reported:**  
12/26/12 14:04

### 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

## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	8260B BTEX TXYL	(Water)	Special Units: (ug/l) VERSION 6.10:2005 Default Report (not modified)