

State of Colorado  
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

#7908

RECEIVED  
3/27/2013

## SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

### CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release     Plug & Abandon     Central Facility Closure

Site/Facility Closure     Other (describe): \_\_\_\_\_

OGCC Employee:

<input checked="" type="checkbox"/> Spill	<input type="checkbox"/> Complaint
<input type="checkbox"/> Inspection	<input type="checkbox"/> NOAV

Tracking No: 2221300

### GENERAL INFORMATION

OGCC Operator Number: 10071	Contact Name and Telephone
Name of Operator: Bill Barrett Corporation (BBC)	Name: Scott Ghan
Address: 112 Red Feather Trail	No: 970-876-1959
City: Silt	Fax: 970-876-0981
API/Facility No: 323891	County: Garfield
Facility Name: Daley 1	Facility Number:
Well Name: Daley	Well Number: 1
Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW 29 6S 91W	Latitude: 39.503391 Longitude: -107.585171

### TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.):	Produced Water
Site Conditions: Is location within a sensitive area (according to Rule 901e)?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N    If yes, attach evaluation.
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.):	Rangeland
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:	Olney loam, 3 to 6 percent slopes
Potential receptors (water wells within 1/4 mi, surface waters, etc.):	An unnamed surface water body is located 315' south. A water well is located 1,480' north. Groundwater is estimated to be at least 45' below ground surface.

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	291' N-S x 2' E-W x 24" deep	Soil samples were submitted for laboratory analysis
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface water		

### REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Form 19 submitted on 11/28/2011 (Spill Number 2221300).

Describe how source is to be removed:

On 11/15/2011, a vacuum truck was utilized to recover 4 barrels of produced water. The soil surrounding the release point and spill path was then excavated. After excavation activities were completed, confirmation soil samples were collected and submitted for laboratory analysis of Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 metals, electrical conductivity (EC), pH, sodium adsorption ratio (SAR), benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and polycyclic aromatic hydrocarbons (PAHs). A topographic site location map and a site map are provided as Figures 1 and 2, respectively.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Recovered produced water was disposed of at a licensed disposal facility. Impacted soil has been excavated and stockpiled within a lined containment on the Gibson Gulch Unit 1-30 (API # 05-045-07151) awaiting disposal at the South Canyon Landfill disposal facility.

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Tracking Number: \_\_\_\_\_  
Name of Operator: BBC  
OGCC Operator No: 10071  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No.: Daley 1 (323891)

### REMEDIATION WORKPLAN (CONT.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was not encountered during remedial activities. Based on state records, groundwater is estimated to be approximately 45 feet below ground surface.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Landowner has requested that no further ground disturbance be conducted. The excavation area was returned to original grade in the roadside ditch.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required?  Y  N If yes, describe:

Eight confirmation soil samples were collected on 11/15/2011, one at the release point and seven along the spill path. Soil samples were submitted for laboratory analysis of COGCC Table 910-1 metals, EC, pH, SAR, BTEX, TPH, and PAHs. Analytical results indicated that soil samples SS01@6", SS02@6", SS03@6", SS04@6", SS05@6", SS06@6", SS07@6", and SS08@6" were in compliance with COGCC Table 910-1 concentration levels for COGCC Table 910-1 metals, pH, SAR, BTEX, TPH, and PAHs. However, soil samples SS01@6", SS02@6", SS03@6", SS04@6", and SS07@6" exhibited exceedances of EC and soil samples SS01@6", SS02@6", SS03@6", SS04@6", SS05@6", SS06@6", and SS07@6" exhibited exceedances of arsenic. Sample locations are depicted on Figure 2 and results are provided in Table 1. Laboratory reports are included as an attachment.

On 12/22/2011, soil samples were collected from 12 inches below ground surface (bgs) to 30 inches bgs at four of the sample locations, SS01, SS03, SS05, and SS06, in order to assess the vertical extent of the residual surficial soil impact. These samples were submitted for laboratory analysis of EC and arsenic. Analytical results indicated that soil samples collected from within the above mentioned vertical range were in compliance with the COGCC Table 910-1 concentration level for EC or were within background concentrations for arsenic, with the exception of the continued exceedance of EC at sample location SS03. However, samples collected at the deepest point (24" bgs) at sample location SS03 exceeded the COGCC Table 910-1 concentration level of 4 millimhos per centimeter (mmhos/cm) only slightly at 4.13 mmhos/cm. Sample locations are depicted on Figure 2 and results are provided in Table 1. Laboratory reports are included as an attachment.

Levels of EC are only a concern when reclaiming disturbed areas. There is no expectation of reclaiming this area in the near future because it is located within a roadside ditch, which is under continuous maintenance, on the landowner's property. He has also requested that no further excavation work be conducted in this area as it may impact the flow conditions of the roadside ditch. As the release migrated through a section of roadside ditch, which is regularly maintained/cleared, the level of EC in the surficial soil will not affect reclamation as the ditch will not be vegetated. Continued use of the roadside ditch for conveyance of surface runoff purposes will only reduce the level of EC remaining on the shallow soil. Due to the landowner's request and a minimal EC exceedance, BBC is requesting a No Further Action determination for this incident.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Recovered produced water was hauled to a disposal facility. Approximately 70 cubic yards of excavated soil is being temporarily stockpiled within a lined containment on the Gibson Gulch Unit 1-30 (API # 05-045-07151) awaiting disposal at the South Canyon Landfill disposal facility. Soil profiling and disposal is currently underway.

### IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	11/15/2011	Date Site Investigation Completed:	6/29/2012	Remediation Plan Submitted:	3/27/2013
Remediation Start Date:	11/15/2011	Anticipated Completion Date:	NA	Actual Completion Date:	6/29/2012

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

Print Name: Scott Ghan

Signed:

Title: E H & S Coordinator Date: 3/27/2013

OGCC Approved: Title: EPS NW Region Date: 07/25/2013

Please notify when stockpiled material is disposed

State of Colorado  
Oil and Gas Conservation Commission  
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Name of Operator: BBC  
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OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was not encountered during remedial activities. Based on state records, groundwater is estimated to be approximately 45 feet below ground surface.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

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Remediation Start Date:	11/15/2011	Anticipated Completion Date:	NA	Actual Completion Date:	6/29/2012

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

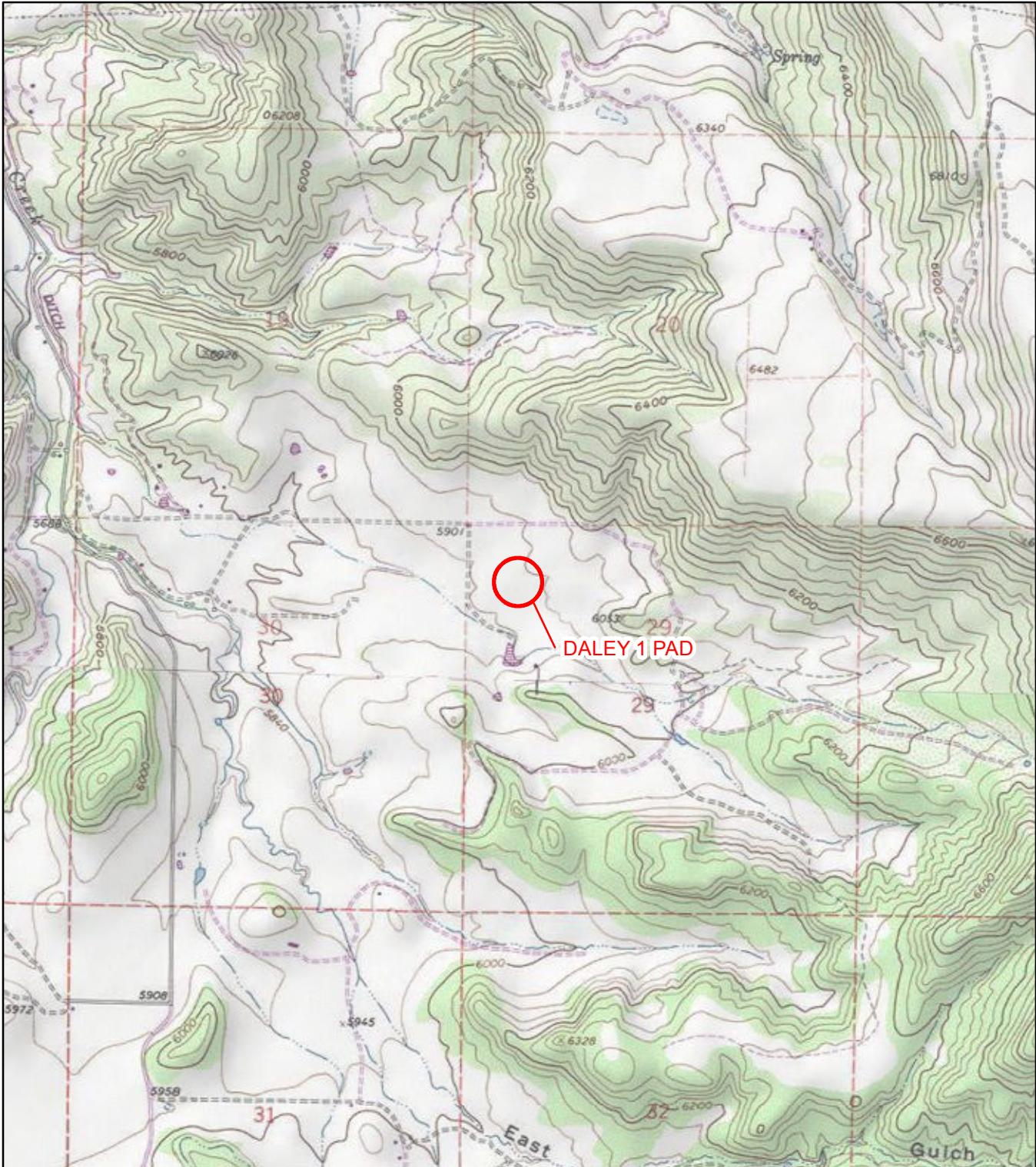
Print Name: Scott Ghan

Signed:

Title: E H & S Coordinator

Date: 3/27/2013

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_



**LEGEND**

○ SITE LOCATION

0 2,000 4,000  
Feet



IMAGE COURTESY OF ESRI/BING MAPS

FIGURE 1  
SITE LOCATION MAP  
DALEY 1 PAD  
NWNW SEC 29 T6S R9W  
GARFIELD COUNTY, COLORADO  
BILL BARRETT CORPORATION





#### LEGEND

- SOIL SAMPLE  
(DEPTH MEASURED IN INCHES (") BELOW GROUND SURFACE)
- ✗ RELEASE LOCATION
- WELLHEAD
- RELEASE PATH
- PAD PERIMETER

IMAGE COURTESY OF ESRI/BING MAPS

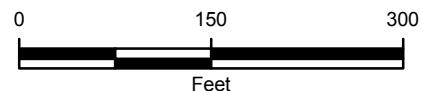


FIGURE 2  
SITE MAP  
DALEY 1 PAD  
NWNW SEC 29 T6S R91W  
GARFIELD COUNTY, COLORADO  
BILL BARRETT CORPORATION



**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	BG01	BG02	BG03	BG04
Depth (feet)		0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Sample Date		12/7/2011	12/7/2011	12/7/2011	12/7/2011

**Inorganics**

Electrical Conductivity (mmhos/cm)	4	2.52	1.96	
SAR (meq/meq)	12			
pH, Lab (pH units)	6 to 9			

**Metals**

Arsenic (mg/kg)	0.39	2.07	1.61	2.23	2.04
Barium (mg/kg)	15000				
Cadmium (mg/kg)	70				
Chromium+3 Calculated (mg/kg)	120000				
Chromium, Hexavalent (mg/kg)	23				
Copper (mg/kg)	3100				
Lead (mg/kg)	400				
Mercury (mg/kg)	23				
Nickel (mg/kg)	1600				
Selenium (mg/kg)	390				
Silver (mg/kg)	390				
Zinc (mg/kg)	23000				

**Organic Compounds**

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

**Notes:**

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS01	SS01	SS01	SS01
Depth (feet)	0.5	1.5	2.0	2.5	
Sample Date	11/15/2011	12/22/2011	12/22/2011	12/22/2011	
<b>Inorganics</b>					
Electrical Conductivity (mmhos/cm)	4	<b>6.11</b>	3.22	1.65	2.86
SAR (meq/meq)	12	1.61			
pH, Lab (pH units)	6 to 9	7.89	8.13	8.24	8.23
<b>Metals</b>					
Arsenic (mg/kg)	0.39	<b>3.07</b>	<b>2.09</b>	<b>1.71</b>	<b>1.61</b>
Barium (mg/kg)	15000	232			
Cadmium (mg/kg)	70	<0.457			
Chromium+3 Calculated (mg/kg)	120000	<5.00			
Chromium, Hexavalent (mg/kg)	23	6.45			
Copper (mg/kg)	3100	12.5			
Lead (mg/kg)	400	9.60			
Mercury (mg/kg)	23	0.0115			
Nickel (mg/kg)	1600	11.0			
Selenium (mg/kg)	390	1.31			
Silver (mg/kg)	390	<0.457			
Zinc (mg/kg)	23000	46.0			
<b>Organic Compounds</b>					
TPH-DRO (mg/kg)		<1.7			
TPH-GRO (mg/kg)		0.080			
TPH-Total (mg/kg)	500	0.080			
Benzene (mg/kg)	0.17	<0.0050			
Toluene (mg/kg)	85	0.012			
Ethylbenzene (mg/kg)	100	<0.0050			
Xylenes, Total (mg/kg)	175	0.032			
Acenaphthene (mg/kg)	1000	<0.0066			
Anthracene (mg/kg)	1000	<0.0066			
Benzo (a) anthracene (mg/kg)	0.22	<0.0066			
Benzo (b) fluoranthene (mg/kg)	0.22	<0.0066			
Benzo (k) fluoranthene (mg/kg)	2.2	<0.0066			
Benzo (a) pyrene (mg/kg)	0.022	<0.0066			
Chrysene (mg/kg)	22	<0.0066			
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.0066			
Fluoranthene (mg/kg)	1000	<0.0066			
Fluorene (mg/kg)	1000	<0.0066			
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.0066			
Naphthalene (mg/kg)	23	<0.0066			
Pyrene (mg/kg)	1000	<0.0066			

**Notes:**

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS02	SS03	SS03	SS03
Depth (feet)		0.5	0.5	1.0	1.5
Sample Date		11/15/2011	11/15/2011	12/22/2011	12/22/2011
<b>Inorganics</b>					
Electrical Conductivity (mmhos/cm)	4	<b>5.58</b>	<b>9.84</b>	<b>6.51</b>	<b>4.17</b>
SAR (meq/meq)	12	0.443	0.448		
pH, Lab (pH units)	6 to 9	7.64	7.17	7.20	7.04
<b>Metals</b>					
Arsenic (mg/kg)	0.39	<b>3.39</b>	<b>3.51</b>	<b>2.48</b>	<b>1.69</b>
Barium (mg/kg)	15000	199	156		
Cadmium (mg/kg)	70	<0.451	<0.443		
Chromium+3 Calculated (mg/kg)	120000	9.47	10.2		
Chromium, Hexavalent (mg/kg)	23	<1.95	<2.00		
Copper (mg/kg)	3100	11.6	12.3		
Lead (mg/kg)	400	10.1	10.9		
Mercury (mg/kg)	23	0.00964	0.0119		
Nickel (mg/kg)	1600	10.9	12.0		
Selenium (mg/kg)	390	1.34	1.31		
Silver (mg/kg)	390	<0.451	<0.443		
Zinc (mg/kg)	23000	45.5	49.7		
<b>Organic Compounds</b>					
TPH-DRO (mg/kg)		<1.7	<1.7		
TPH-GRO (mg/kg)		<0.050	<0.050		
TPH-Total (mg/kg)	500	<1.75	<1.75		
Benzene (mg/kg)	0.17	<0.0050	<0.0050		
Toluene (mg/kg)	85	<0.0050	<0.0050		
Ethylbenzene (mg/kg)	100	<0.0050	<0.0050		
Xylenes, Total (mg/kg)	175	<0.015	<0.015		
Acenaphthene (mg/kg)	1000	<0.0066	<0.0066		
Anthracene (mg/kg)	1000	<0.0066	<0.0066		
Benzo (a) anthracene (mg/kg)	0.22	<0.0066	<0.0066		
Benzo (b) fluoranthene (mg/kg)	0.22	<0.0066	<0.0066		
Benzo (k) fluoranthene (mg/kg)	2.2	<0.0066	<0.0066		
Benzo (a) pyrene (mg/kg)	0.022	<0.0066	<0.0066		
Chrysene (mg/kg)	22	<0.0066	<0.0066		
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.0066	<0.0066		
Fluoranthene (mg/kg)	1000	<0.0066	<0.0066		
Fluorene (mg/kg)	1000	<0.0066	<0.0066		
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.0066	<0.0066		
Naphthalene (mg/kg)	23	<0.0066	<0.0066		
Pyrene (mg/kg)	1000	<0.0066	<0.0066		

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS03	SS03	SS04	SS05
Depth (feet)	2.0	2.0	0.5	0.5	
Sample Date	12/22/2011	6/29/2012	11/15/2011	11/15/2011	
<b>Inorganics</b>					
Electrical Conductivity (mmhos/cm)	4	<b>4.26</b>	<b>4.13</b>	<b>4.36</b>	1.97
SAR (meq/meq)	12			0.405	0.775
pH, Lab (pH units)	6 to 9	8.21		7.22	7.88
<b>Metals</b>					
Arsenic (mg/kg)	0.39	<b>1.93</b>		<b>3.26</b>	<b>3.10</b>
Barium (mg/kg)	15000			141	155
Cadmium (mg/kg)	70			<0.478	<0.437
Chromium+3 Calculated (mg/kg)	120000			9.89	9.60
Chromium, Hexavalent (mg/kg)	23			<2.00	<1.93
Copper (mg/kg)	3100			11.8	11.5
Lead (mg/kg)	400			10.3	10.6
Mercury (mg/kg)	23			0.0130	0.0115
Nickel (mg/kg)	1600			10.8	11.7
Selenium (mg/kg)	390			1.49	1.50
Silver (mg/kg)	390			<0.478	<0.437
Zinc (mg/kg)	23000			47.2	46.9
<b>Organic Compounds</b>					
TPH-DRO (mg/kg)				<1.7	<1.7
TPH-GRO (mg/kg)				<0.050	<0.050
TPH-Total (mg/kg)	500			<1.75	<1.75
Benzene (mg/kg)	0.17			<0.0050	<0.0050
Toluene (mg/kg)	85			<0.0050	<0.0050
Ethylbenzene (mg/kg)	100			<0.0050	<0.0050
Xylenes, Total (mg/kg)	175			<0.015	<0.015
Acenaphthene (mg/kg)	1000			<0.0066	<0.0066
Anthracene (mg/kg)	1000			<0.0066	<0.0066
Benzo (a) anthracene (mg/kg)	0.22			<0.0066	<0.0066
Benzo (b) fluoranthene (mg/kg)	0.22			<0.0066	<0.0066
Benzo (k) fluoranthene (mg/kg)	2.2			<0.0066	<0.0066
Benzo (a) pyrene (mg/kg)	0.022			<0.0066	<0.0066
Chrysene (mg/kg)	22			<0.0066	<0.0066
Dibenz (a,h) anthracene (mg/kg)	0.022			<0.0066	<0.0066
Fluoranthene (mg/kg)	1000			<0.0066	<0.0066
Fluorene (mg/kg)	1000			<0.0066	<0.0066
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22			<0.0066	<0.0066
Naphthalene (mg/kg)	23			<0.0066	<0.0066
Pyrene (mg/kg)	1000			<0.0066	<0.0066

**Notes:**

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS05	SS05	SS05	SS06
Depth (feet)	1.0	1.5	2.0	0.5	
Sample Date	12/22/2011	12/22/2011	12/22/2011	12/22/2011	11/15/2011
<b>Inorganics</b>					
Electrical Conductivity (mmhos/cm)	4	1.91	1.17	0.766	2.10
SAR (meq/meq)	12				0.598
pH, Lab (pH units)	6 to 9	8.39	8.33	8.46	6.91
<b>Metals</b>					
Arsenic (mg/kg)	0.39	<b>1.95</b>	<b>1.68</b>	<b>1.72</b>	<b>4.09</b>
Barium (mg/kg)	15000				130
Cadmium (mg/kg)	70				<0.439
Chromium+3 Calculated (mg/kg)	120000				11.6
Chromium, Hexavalent (mg/kg)	23				<1.99
Copper (mg/kg)	3100				13.2
Lead (mg/kg)	400				11.5
Mercury (mg/kg)	23				0.00894
Nickel (mg/kg)	1600				12.5
Selenium (mg/kg)	390				1.58
Silver (mg/kg)	390				<0.439
Zinc (mg/kg)	23000				51.5
<b>Organic Compounds</b>					
TPH-DRO (mg/kg)					<1.7
TPH-GRO (mg/kg)					<0.050
TPH-Total (mg/kg)	500				<1.75
Benzene (mg/kg)	0.17				<0.0050
Toluene (mg/kg)	85				<0.0050
Ethylbenzene (mg/kg)	100				<0.0050
Xylenes, Total (mg/kg)	175				<0.015
Acenaphthene (mg/kg)	1000				<0.0066
Anthracene (mg/kg)	1000				<0.0066
Benzo (a) anthracene (mg/kg)	0.22				<0.0066
Benzo (b) fluoranthene (mg/kg)	0.22				<0.0066
Benzo (k) fluoranthene (mg/kg)	2.2				<0.0066
Benzo (a) pyrene (mg/kg)	0.022				<0.0066
Chrysene (mg/kg)	22				<0.0066
Dibenz (a,h) anthracene (mg/kg)	0.022				<0.0066
Fluoranthene (mg/kg)	1000				<0.0066
Fluorene (mg/kg)	1000				<0.0066
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22				<0.0066
Naphthalene (mg/kg)	23				<0.0066
Pyrene (mg/kg)	1000				<0.0066

**Notes:**

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS06	SS06	SS06	SS07
Depth (feet)	1.0	1.5	2.0	0.5	
Sample Date	12/22/2011	12/22/2011	12/22/2011	12/22/2011	11/15/2011
<b>Inorganics</b>					
Electrical Conductivity (mmhos/cm)	4	1.46	1.10	1.03	<b>7.18</b>
SAR (meq/meq)	12				0.280
pH, Lab (pH units)	6 to 9	7.60	8.11	8.25	7.69
<b>Metals</b>					
Arsenic (mg/kg)	0.39	<b>1.96</b>	<b>1.47</b>	<b>1.70</b>	<b>3.14</b>
Barium (mg/kg)	15000				153
Cadmium (mg/kg)	70				<0.438
Chromium+3 Calculated (mg/kg)	120000				9.47
Chromium, Hexavalent (mg/kg)	23				<1.96
Copper (mg/kg)	3100				11.5
Lead (mg/kg)	400				10.5
Mercury (mg/kg)	23				0.0114
Nickel (mg/kg)	1600				11.6
Selenium (mg/kg)	390				1.29
Silver (mg/kg)	390				<0.438
Zinc (mg/kg)	23000				49.6
<b>Organic Compounds</b>					
TPH-DRO (mg/kg)					<1.7
TPH-GRO (mg/kg)					<0.050
TPH-Total (mg/kg)	500				<1.75
Benzene (mg/kg)	0.17				<0.0050
Toluene (mg/kg)	85				<0.0050
Ethylbenzene (mg/kg)	100				<0.0050
Xylenes, Total (mg/kg)	175				<0.015
Acenaphthene (mg/kg)	1000				<0.0066
Anthracene (mg/kg)	1000				<0.0066
Benzo (a) anthracene (mg/kg)	0.22				<0.0066
Benzo (b) fluoranthene (mg/kg)	0.22				<0.0066
Benzo (k) fluoranthene (mg/kg)	2.2				<0.0066
Benzo (a) pyrene (mg/kg)	0.022				<0.0066
Chrysene (mg/kg)	22				<0.0066
Dibenz (a,h) anthracene (mg/kg)	0.022				<0.0066
Fluoranthene (mg/kg)	1000				<0.0066
Fluorene (mg/kg)	1000				<0.0066
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22				<0.0066
Naphthalene (mg/kg)	23				<0.0066
Pyrene (mg/kg)	1000				<0.0066

**Notes:**

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



**TABLE 1 (Continued)**  
**SOIL ANALYTICAL RESULTS**  
**DALEY 1**  
**GARFIELD COUNTY, COLORADO**  
**BILL BARRETT CORPORATION**

Parameter	Standard	SS08
Depth (feet)	0.5	
Sample Date	11/15/2011	

#### Inorganics

Electrical Conductivity (mmhos/cm)	4	1.99
SAR (meq/meq)	12	0.410
pH, Lab (pH units)	6 to 9	7.31

#### Metals

Arsenic (mg/kg)	0.39	<b>1.59</b>
Barium (mg/kg)	15000	124
Cadmium (mg/kg)	70	<0.450
Chromium+3 Calculated (mg/kg)	120000	5.97
Chromium, Hexavalent (mg/kg)	23	<2.00
Copper (mg/kg)	3100	9.66
Lead (mg/kg)	400	8.04
Mercury (mg/kg)	23	0.0103
Nickel (mg/kg)	1600	9.61
Selenium (mg/kg)	390	1.40
Silver (mg/kg)	390	<0.450
Zinc (mg/kg)	23000	38.3

#### Organic Compounds

TPH-DRO (mg/kg)	<1.7
TPH-GRO (mg/kg)	<0.050
TPH-Total (mg/kg)	500
Benzene (mg/kg)	0.17
Toluene (mg/kg)	85
Ethylbenzene (mg/kg)	100
Xylenes, Total (mg/kg)	175
Acenaphthene (mg/kg)	1000
Anthracene (mg/kg)	1000
Benzo (a) anthracene (mg/kg)	0.22
Benzo (b) fluoranthene (mg/kg)	0.22
Benzo (k) fluoranthene (mg/kg)	2.2
Benzo (a) pyrene (mg/kg)	0.022
Chrysene (mg/kg)	22
Dibenz (a,h) anthracene (mg/kg)	0.022
Fluoranthene (mg/kg)	1000
Fluorene (mg/kg)	1000
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22
Naphthalene (mg/kg)	23
Pyrene (mg/kg)	1000

#### Notes:

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

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

GRO - Gasoline range organics

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

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio





01-Dec-2011

Brian Dodek  
LT Environmental  
4600 West 60th Avenue  
Arvada, CO 80003

Tel: (303) 962-5535  
Fax: (303) 433-1432

Re: Daley 1

Work Order: **1111578**

Dear Brian,

ALS Environmental received 9 samples on 17-Nov-2011 07:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Nicole Brown".

Electronically approved by: Mary K. Knowles

Nicole Brown  
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** LT Environmental  
**Project:** Daley 1  
**Work Order:** 1111578

**Work Order Sample Summary**

<b>Lab Samp ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>	<b>Hold</b>
1111578-01	SS01 @ 6"	Soil		11/15/2011 16:30	11/17/2011 07:30	<input type="checkbox"/>
1111578-02	SS02 @ 6"	Soil		11/15/2011 15:30	11/17/2011 07:30	<input type="checkbox"/>
1111578-03	SS03 @ 6"	Soil		11/15/2011 15:10	11/17/2011 07:30	<input type="checkbox"/>
1111578-04	SS04 @ 6"	Soil		11/15/2011 14:30	11/17/2011 07:30	<input type="checkbox"/>
1111578-05	SS05 @ 6"	Soil		11/15/2011 13:55	11/17/2011 07:30	<input type="checkbox"/>
1111578-06	SS06 @ 6"	Soil		11/15/2011 13:00	11/17/2011 07:30	<input type="checkbox"/>
1111578-07	SS07 @ 6"	Soil		11/15/2011 12:00	11/17/2011 07:30	<input type="checkbox"/>
1111578-08	SS08 @ 6"	Soil		11/15/2011 13:35	11/17/2011 07:30	<input type="checkbox"/>
1111578-09	Trip Blank 102011-28	Water		11/18/2011 13:34	11/17/2011 07:30	<input checked="" type="checkbox"/>

**Client:** LT Environmental  
**Project:** Daley 1  
**Work Order:** 1111578

**Case Narrative**

Batch R119428, Method 8260 BTEX, Sample 1111549-03A MS/MSD: The MS/MSD is for an unrelated sample.

Batch R119602, Method 8015 GRO, Sample 1111656-07B MS: The recovery was slightly below The control limits in the MS. The MS/MSD RPD met control criteria.

Batches 57011 and 57021, Metals, Samples 1111536-11C and 1111558-08A MS/MSD/DUP: The MS, MSD and DUP are for an unrelated sample.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS01 @ 6"  
**Collection Date:** 11/15/2011 04:30 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 02:37 PM
Surr: 2-Fluorobiphenyl	82.1		70-130 %REC		1	11/18/2011 02:37 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	0.080		0.050 mg/Kg		1	11/21/2011 06:50 PM
Surr: 4-Bromofluorobenzene	125		70-130 %REC		1	11/21/2011 06:50 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	ND		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0115		0.00346 mg/Kg		1	11/22/2011 04:29 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.07		0.457 mg/Kg		1	11/19/2011 07:00 AM
Barium	232		4.57 mg/Kg		10	11/19/2011 11:25 PM
Cadmium	ND		0.457 mg/Kg		1	11/19/2011 07:00 AM
Copper	12.5		0.457 mg/Kg		1	11/19/2011 07:00 AM
Lead	9.60		0.457 mg/Kg		1	11/19/2011 07:00 AM
Nickel	11.0		0.457 mg/Kg		1	11/19/2011 07:00 AM
Selenium	1.31		0.457 mg/Kg		1	11/19/2011 07:00 AM
Silver	ND		0.457 mg/Kg		1	11/19/2011 07:00 AM
Zinc	46.0		0.457 mg/Kg		1	11/19/2011 07:00 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	1.61		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	176		4.99 mg/L		10	11/30/2011 01:45 AM
Magnesium	88.0		4.99 mg/L		10	11/30/2011 01:45 AM
Sodium	105		4.99 mg/L		10	11/30/2011 01:45 AM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:10 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS01 @ 6"

**Collection Date:** 11/15/2011 04:30 PM

**Work Order:** 1111578

**Lab ID:** 1111578-01

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 06:10 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 06:10 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 06:10 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 06:10 AM
<i>Surr: 2,4,6-Tribromophenol</i>	68.5		36-126	%REC	1	11/18/2011 06:10 AM
<i>Surr: 2-Fluorobiphenyl</i>	72.7		43-125	%REC	1	11/18/2011 06:10 AM
<i>Surr: 2-Fluorophenol</i>	69.1		37-125	%REC	1	11/18/2011 06:10 AM
<i>Surr: 4-Terphenyl-d14</i>	82.8		32-125	%REC	1	11/18/2011 06:10 AM
<i>Surr: Nitrobenzene-d5</i>	70.5		37-125	%REC	1	11/18/2011 06:10 AM
<i>Surr: Phenol-d6</i>	64.8		40-125	%REC	1	11/18/2011 06:10 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/17/2011 12:57 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/17/2011 12:57 PM
<b>m,p-Xylene</b>	<b>0.027</b>		<b>0.010</b>	<b>mg/Kg</b>	<b>1</b>	11/17/2011 12:57 PM
<b>o-Xylene</b>	<b>0.0056</b>		<b>0.0050</b>	<b>mg/Kg</b>	<b>1</b>	11/17/2011 12:57 PM
Toluene	0.012		0.0050	mg/Kg	1	11/17/2011 12:57 PM
<b>Xylenes, Total</b>	<b>0.032</b>		<b>0.015</b>	<b>mg/Kg</b>	<b>1</b>	11/17/2011 12:57 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	91.7		70-128	%REC	1	11/17/2011 12:57 PM
<i>Surr: 4-Bromofluorobenzene</i>	96.9		73-126	%REC	1	11/17/2011 12:57 PM
<i>Surr: Dibromofluoromethane</i>	92.2		71-128	%REC	1	11/17/2011 12:57 PM
<i>Surr: Toluene-d8</i>	97.9		73-127	%REC	1	11/17/2011 12:57 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	6.45		1.99	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	6.11		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	2.76		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.452			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	2.76		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.89		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS02 @ 6"  
**Collection Date:** 11/15/2011 03:30 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 02:57 PM
Surr: 2-Fluorobiphenyl	86.7		70-130 %REC		1	11/18/2011 02:57 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 07:07 PM
Surr: 4-Bromofluorobenzene	110		70-130 %REC		1	11/21/2011 07:07 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	9.47		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.00964		0.00361 mg/Kg		1	11/22/2011 04:31 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.39		0.451 mg/Kg		1	11/19/2011 07:06 AM
Barium	199		4.51 mg/Kg		10	11/19/2011 11:32 PM
Cadmium	ND		0.451 mg/Kg		1	11/19/2011 07:06 AM
Copper	11.6		0.451 mg/Kg		1	11/19/2011 07:06 AM
Lead	10.1		0.451 mg/Kg		1	11/19/2011 07:06 AM
Nickel	10.9		0.451 mg/Kg		1	11/19/2011 07:06 AM
Selenium	1.34		0.451 mg/Kg		1	11/19/2011 07:06 AM
Silver	ND		0.451 mg/Kg		1	11/19/2011 07:06 AM
Zinc	45.5		0.451 mg/Kg		1	11/19/2011 07:06 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.443		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	225		4.99 mg/L		10	11/30/2011 07:38 PM
Magnesium	188		4.99 mg/L		10	11/30/2011 07:38 PM
Sodium	37.2		4.99 mg/L		10	11/30/2011 07:38 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Chrysene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:32 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS02 @ 6"

**Collection Date:** 11/15/2011 03:30 PM

**Work Order:** 1111578

**Lab ID:** 1111578-02

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/22/2011 04:32 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/22/2011 04:32 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/22/2011 04:32 AM
Pyrene	ND		0.0066	mg/Kg	1	11/22/2011 04:32 AM
<i>Surr: 2,4,6-Tribromophenol</i>	49.2		36-126	%REC	1	11/22/2011 04:32 AM
<i>Surr: 2-Fluorobiphenyl</i>	81.8		43-125	%REC	1	11/22/2011 04:32 AM
<i>Surr: 2-Fluorophenol</i>	64.5		37-125	%REC	1	11/22/2011 04:32 AM
<i>Surr: 4-Terphenyl-d14</i>	88.7		32-125	%REC	1	11/22/2011 04:32 AM
<i>Surr: Nitrobenzene-d5</i>	70.9		37-125	%REC	1	11/22/2011 04:32 AM
<i>Surr: Phenol-d6</i>	68.0		40-125	%REC	1	11/22/2011 04:32 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/17/2011 01:24 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/17/2011 01:24 PM
m,p-Xylene	ND		0.010	mg/Kg	1	11/17/2011 01:24 PM
o-Xylene	ND		0.0050	mg/Kg	1	11/17/2011 01:24 PM
Toluene	ND		0.0050	mg/Kg	1	11/17/2011 01:24 PM
Xylenes, Total	ND		0.015	mg/Kg	1	11/17/2011 01:24 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	86.6		70-128	%REC	1	11/17/2011 01:24 PM
<i>Surr: 4-Bromofluorobenzene</i>	101		73-126	%REC	1	11/17/2011 01:24 PM
<i>Surr: Dibromofluoromethane</i>	85.8		71-128	%REC	1	11/17/2011 01:24 PM
<i>Surr: Toluene-d8</i>	94.6		73-127	%REC	1	11/17/2011 01:24 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		1.95	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	5.58		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	2.67		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.479			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	2.67		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.64		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS03 @ 6"  
**Collection Date:** 11/15/2011 03:10 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 03:59 PM
Surr: 2-Fluorobiphenyl	75.1		70-130 %REC		1	11/18/2011 03:59 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 07:25 PM
Surr: 4-Bromofluorobenzene	113		70-130 %REC		1	11/21/2011 07:25 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	10.2		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0119		0.00360 mg/Kg		1	11/22/2011 04:33 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.51		0.443 mg/Kg		1	11/19/2011 07:13 AM
Barium	156		0.443 mg/Kg		1	11/19/2011 07:13 AM
Cadmium	ND		0.443 mg/Kg		1	11/19/2011 07:13 AM
Copper	12.3		0.443 mg/Kg		1	11/19/2011 07:13 AM
Lead	10.9		0.443 mg/Kg		1	11/19/2011 07:13 AM
Nickel	12.0		0.443 mg/Kg		1	11/19/2011 07:13 AM
Selenium	1.31		0.443 mg/Kg		1	11/19/2011 07:13 AM
Silver	ND		0.443 mg/Kg		1	11/19/2011 07:13 AM
Zinc	49.7		0.443 mg/Kg		1	11/19/2011 07:13 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.448		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	410		4.99 mg/L		10	11/30/2011 07:44 PM
Magnesium	428		4.99 mg/L		10	11/30/2011 07:44 PM
Sodium	54.3		4.99 mg/L		10	11/30/2011 07:44 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 06:51 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS03 @ 6"

**Collection Date:** 11/15/2011 03:10 PM

**Work Order:** 1111578

**Lab ID:** 1111578-03

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 06:51 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 06:51 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 06:51 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 06:51 AM
<i>Surr: 2,4,6-Tribromophenol</i>	85.2		36-126	%REC	1	11/18/2011 06:51 AM
<i>Surr: 2-Fluorobiphenyl</i>	73.7		43-125	%REC	1	11/18/2011 06:51 AM
<i>Surr: 2-Fluorophenol</i>	71.7		37-125	%REC	1	11/18/2011 06:51 AM
<i>Surr: 4-Terphenyl-d14</i>	90.8		32-125	%REC	1	11/18/2011 06:51 AM
<i>Surr: Nitrobenzene-d5</i>	72.8		37-125	%REC	1	11/18/2011 06:51 AM
<i>Surr: Phenol-d6</i>	67.9		40-125	%REC	1	11/18/2011 06:51 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/17/2011 04:35 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/17/2011 04:35 PM
m,p-Xylene	ND		0.010	mg/Kg	1	11/17/2011 04:35 PM
o-Xylene	ND		0.0050	mg/Kg	1	11/17/2011 04:35 PM
Toluene	ND		0.0050	mg/Kg	1	11/17/2011 04:35 PM
Xylenes, Total	ND		0.015	mg/Kg	1	11/17/2011 04:35 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.8		70-128	%REC	1	11/17/2011 04:35 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.8		73-126	%REC	1	11/17/2011 04:35 PM
<i>Surr: Dibromofluoromethane</i>	103		71-128	%REC	1	11/17/2011 04:35 PM
<i>Surr: Toluene-d8</i>	100		73-127	%REC	1	11/17/2011 04:35 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		2.00	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	9.84		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	5.83		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.593			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	5.83		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.17		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS04 @ 6"  
**Collection Date:** 11/15/2011 02:30 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 04:18 PM
Surr: 2-Fluorobiphenyl	90.0		70-130 %REC		1	11/18/2011 04:18 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 07:43 PM
Surr: 4-Bromofluorobenzene	120		70-130 %REC		1	11/21/2011 07:43 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	9.89		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0130		0.00360 mg/Kg		1	11/22/2011 04:39 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.26		0.478 mg/Kg		1	11/19/2011 07:19 AM
Barium	141		0.478 mg/Kg		1	11/19/2011 07:19 AM
Cadmium	ND		0.478 mg/Kg		1	11/19/2011 07:19 AM
Copper	11.8		0.478 mg/Kg		1	11/19/2011 07:19 AM
Lead	10.3		0.478 mg/Kg		1	11/19/2011 07:19 AM
Nickel	10.8		0.478 mg/Kg		1	11/19/2011 07:19 AM
Selenium	1.49		0.478 mg/Kg		1	11/19/2011 07:19 AM
Silver	ND		0.478 mg/Kg		1	11/19/2011 07:19 AM
Zinc	47.2		0.478 mg/Kg		1	11/19/2011 07:19 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.405		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	257		4.98 mg/L		10	11/30/2011 07:50 PM
Magnesium	115		4.98 mg/L		10	11/30/2011 07:50 PM
Sodium	31.1		4.98 mg/L		10	11/30/2011 07:50 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:11 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS04 @ 6"

**Collection Date:** 11/15/2011 02:30 PM

**Work Order:** 1111578

**Lab ID:** 1111578-04

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 07:11 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 07:11 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 07:11 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 07:11 AM
<i>Surr: 2,4,6-Tribromophenol</i>	63.5		36-126	%REC	1	11/18/2011 07:11 AM
<i>Surr: 2-Fluorobiphenyl</i>	71.9		43-125	%REC	1	11/18/2011 07:11 AM
<i>Surr: 2-Fluorophenol</i>	75.5		37-125	%REC	1	11/18/2011 07:11 AM
<i>Surr: 4-Terphenyl-d14</i>	81.7		32-125	%REC	1	11/18/2011 07:11 AM
<i>Surr: Nitrobenzene-d5</i>	73.2		37-125	%REC	1	11/18/2011 07:11 AM
<i>Surr: Phenol-d6</i>	68.2		40-125	%REC	1	11/18/2011 07:11 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/18/2011 10:14 AM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/18/2011 10:14 AM
m,p-Xylene	ND		0.010	mg/Kg	1	11/18/2011 10:14 AM
o-Xylene	ND		0.0050	mg/Kg	1	11/18/2011 10:14 AM
Toluene	ND		0.0050	mg/Kg	1	11/18/2011 10:14 AM
Xylenes, Total	ND		0.015	mg/Kg	1	11/18/2011 10:14 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.3		70-128	%REC	1	11/18/2011 10:14 AM
<i>Surr: 4-Bromofluorobenzene</i>	100		73-126	%REC	1	11/18/2011 10:14 AM
<i>Surr: Dibromofluoromethane</i>	97.3		71-128	%REC	1	11/18/2011 10:14 AM
<i>Surr: Toluene-d8</i>	95.9		73-127	%REC	1	11/18/2011 10:14 AM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		2.00	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	4.36		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	2.50		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.574			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	2.50		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.22		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS05 @ 6"  
**Collection Date:** 11/15/2011 01:55 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 04:38 PM
Surr: 2-Fluorobiphenyl	87.5		70-130 %REC		1	11/18/2011 04:38 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 08:01 PM
Surr: 4-Bromofluorobenzene	119		70-130 %REC		1	11/21/2011 08:01 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	9.60		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0115		0.00357 mg/Kg		1	11/22/2011 04:41 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.10		0.437 mg/Kg		1	11/19/2011 07:37 AM
Barium	155		4.37 mg/Kg		10	11/19/2011 11:39 PM
Cadmium	ND		0.437 mg/Kg		1	11/19/2011 07:37 AM
Copper	11.5		0.437 mg/Kg		1	11/19/2011 07:37 AM
Lead	10.6		0.437 mg/Kg		1	11/19/2011 07:37 AM
Nickel	11.7		0.437 mg/Kg		1	11/19/2011 07:37 AM
Selenium	1.50		0.437 mg/Kg		1	11/19/2011 07:37 AM
Silver	ND		0.437 mg/Kg		1	11/19/2011 07:37 AM
Zinc	46.9		0.437 mg/Kg		1	11/19/2011 07:37 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.775		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	140		5.00 mg/L		10	11/30/2011 07:57 PM
Magnesium	59.4		5.00 mg/L		10	11/30/2011 07:57 PM
Sodium	43.4		5.00 mg/L		10	11/30/2011 07:57 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Chrysene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/22/2011 04:53 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS05 @ 6"

**Collection Date:** 11/15/2011 01:55 PM

**Work Order:** 1111578

**Lab ID:** 1111578-05

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/22/2011 04:53 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/22/2011 04:53 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/22/2011 04:53 AM
Pyrene	ND		0.0066	mg/Kg	1	11/22/2011 04:53 AM
<i>Surr: 2,4,6-Tribromophenol</i>	45.9		36-126	%REC	1	11/22/2011 04:53 AM
<i>Surr: 2-Fluorobiphenyl</i>	82.4		43-125	%REC	1	11/22/2011 04:53 AM
<i>Surr: 2-Fluorophenol</i>	61.8		37-125	%REC	1	11/22/2011 04:53 AM
<i>Surr: 4-Terphenyl-d14</i>	79.7		32-125	%REC	1	11/22/2011 04:53 AM
<i>Surr: Nitrobenzene-d5</i>	65.7		37-125	%REC	1	11/22/2011 04:53 AM
<i>Surr: Phenol-d6</i>	62.0		40-125	%REC	1	11/22/2011 04:53 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/18/2011 10:37 AM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/18/2011 10:37 AM
m,p-Xylene	ND		0.010	mg/Kg	1	11/18/2011 10:37 AM
o-Xylene	ND		0.0050	mg/Kg	1	11/18/2011 10:37 AM
Toluene	ND		0.0050	mg/Kg	1	11/18/2011 10:37 AM
Xylenes, Total	ND		0.015	mg/Kg	1	11/18/2011 10:37 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	87.6		70-128	%REC	1	11/18/2011 10:37 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.3		73-126	%REC	1	11/18/2011 10:37 AM
<i>Surr: Dibromofluoromethane</i>	95.0		71-128	%REC	1	11/18/2011 10:37 AM
<i>Surr: Toluene-d8</i>	97.5		73-127	%REC	1	11/18/2011 10:37 AM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>	Prep Date: 11/28/2011		Analyst: TDW
Chromium, Hexavalent	ND		1.93	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	1.97		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	1.13		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.575			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	1.13		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.88		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS06 @ 6"  
**Collection Date:** 11/15/2011 01:00 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 04:57 PM
Surr: 2-Fluorobiphenyl	73.4		70-130 %REC		1	11/18/2011 04:57 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 08:18 PM
Surr: 4-Bromofluorobenzene	104		70-130 %REC		1	11/21/2011 08:18 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	11.6		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.00894		0.00348 mg/Kg		1	11/22/2011 04:43 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	4.09		0.439 mg/Kg		1	11/19/2011 07:44 AM
Barium	130		0.439 mg/Kg		1	11/19/2011 07:44 AM
Cadmium	ND		0.439 mg/Kg		1	11/19/2011 07:44 AM
Copper	13.2		0.439 mg/Kg		1	11/19/2011 07:44 AM
Lead	11.5		0.439 mg/Kg		1	11/19/2011 07:44 AM
Nickel	12.5		0.439 mg/Kg		1	11/19/2011 07:44 AM
Selenium	1.58		0.439 mg/Kg		1	11/19/2011 07:44 AM
Silver	ND		0.439 mg/Kg		1	11/19/2011 07:44 AM
Zinc	51.5		0.439 mg/Kg		1	11/19/2011 07:44 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.598		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	179		4.97 mg/L		10	11/30/2011 08:16 PM
Magnesium	43.0		4.97 mg/L		10	11/30/2011 08:16 PM
Sodium	34.3		4.97 mg/L		10	11/30/2011 08:16 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 07:51 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS06 @ 6"

**Collection Date:** 11/15/2011 01:00 PM

**Work Order:** 1111578

**Lab ID:** 1111578-06

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 07:51 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 07:51 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 07:51 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 07:51 AM
<i>Surr: 2,4,6-Tribromophenol</i>	69.0		36-126	%REC	1	11/18/2011 07:51 AM
<i>Surr: 2-Fluorobiphenyl</i>	75.9		43-125	%REC	1	11/18/2011 07:51 AM
<i>Surr: 2-Fluorophenol</i>	74.9		37-125	%REC	1	11/18/2011 07:51 AM
<i>Surr: 4-Terphenyl-d14</i>	78.8		32-125	%REC	1	11/18/2011 07:51 AM
<i>Surr: Nitrobenzene-d5</i>	67.5		37-125	%REC	1	11/18/2011 07:51 AM
<i>Surr: Phenol-d6</i>	67.0		40-125	%REC	1	11/18/2011 07:51 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/18/2011 12:56 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/18/2011 12:56 PM
m,p-Xylene	ND		0.010	mg/Kg	1	11/18/2011 12:56 PM
o-Xylene	ND		0.0050	mg/Kg	1	11/18/2011 12:56 PM
Toluene	ND		0.0050	mg/Kg	1	11/18/2011 12:56 PM
Xylenes, Total	ND		0.015	mg/Kg	1	11/18/2011 12:56 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.9		70-128	%REC	1	11/18/2011 12:56 PM
<i>Surr: 4-Bromofluorobenzene</i>	101		73-126	%REC	1	11/18/2011 12:56 PM
<i>Surr: Dibromofluoromethane</i>	100		71-128	%REC	1	11/18/2011 12:56 PM
<i>Surr: Toluene-d8</i>	97.1		73-127	%REC	1	11/18/2011 12:56 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		1.99	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	2.10		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	1.29		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.614			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	1.29		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	6.91		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS07 @ 6"  
**Collection Date:** 11/15/2011 12:00 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 05:16 PM
Surr: 2-Fluorobiphenyl	71.8		70-130 %REC		1	11/18/2011 05:16 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 08:36 PM
Surr: 4-Bromofluorobenzene	117		70-130 %REC		1	11/21/2011 08:36 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	9.47		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0114		0.00354 mg/Kg		1	11/22/2011 04:45 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	3.14		0.438 mg/Kg		1	11/19/2011 07:50 AM
Barium	153		0.438 mg/Kg		1	11/19/2011 07:50 AM
Cadmium	ND		0.438 mg/Kg		1	11/19/2011 07:50 AM
Copper	11.5		0.438 mg/Kg		1	11/19/2011 07:50 AM
Lead	10.5		0.438 mg/Kg		1	11/19/2011 07:50 AM
Nickel	11.6		0.438 mg/Kg		1	11/19/2011 07:50 AM
Selenium	1.29		0.438 mg/Kg		1	11/19/2011 07:50 AM
Silver	ND		0.438 mg/Kg		1	11/19/2011 07:50 AM
Zinc	49.6		0.438 mg/Kg		1	11/19/2011 07:50 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.280		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	322		4.99 mg/L		10	11/30/2011 08:22 PM
Magnesium	228		4.99 mg/L		10	11/30/2011 08:22 PM
Sodium	26.9		4.99 mg/L		10	11/30/2011 08:22 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 08:11 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS07 @ 6"

**Collection Date:** 11/15/2011 12:00 PM

**Work Order:** 1111578

**Lab ID:** 1111578-07

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 08:11 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 08:11 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 08:11 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 08:11 AM
<i>Surr: 2,4,6-Tribromophenol</i>	75.6		36-126	%REC	1	11/18/2011 08:11 AM
<i>Surr: 2-Fluorobiphenyl</i>	69.3		43-125	%REC	1	11/18/2011 08:11 AM
<i>Surr: 2-Fluorophenol</i>	63.9		37-125	%REC	1	11/18/2011 08:11 AM
<i>Surr: 4-Terphenyl-d14</i>	86.2		32-125	%REC	1	11/18/2011 08:11 AM
<i>Surr: Nitrobenzene-d5</i>	65.2		37-125	%REC	1	11/18/2011 08:11 AM
<i>Surr: Phenol-d6</i>	62.0		40-125	%REC	1	11/18/2011 08:11 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/18/2011 01:19 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/18/2011 01:19 PM
m,p-Xylene	ND		0.010	mg/Kg	1	11/18/2011 01:19 PM
o-Xylene	ND		0.0050	mg/Kg	1	11/18/2011 01:19 PM
Toluene	ND		0.0050	mg/Kg	1	11/18/2011 01:19 PM
Xylenes, Total	ND		0.015	mg/Kg	1	11/18/2011 01:19 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	90.0		70-128	%REC	1	11/18/2011 01:19 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.6		73-126	%REC	1	11/18/2011 01:19 PM
<i>Surr: Dibromofluoromethane</i>	98.2		71-128	%REC	1	11/18/2011 01:19 PM
<i>Surr: Toluene-d8</i>	96.8		73-127	%REC	1	11/18/2011 01:19 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		1.96	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	7.18		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	3.24		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.452			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	3.24		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.69		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1  
**Sample ID:** SS08 @ 6"  
**Collection Date:** 11/15/2011 01:35 PM

**Work Order:** 1111578  
**Lab ID:** 1111578-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TPH AND MISCELLANEOUS GCFID</b>			<b>SW8015M</b>			
DRO (>C10 - C28)	ND		1.7 mg/Kg		1	11/18/2011 05:35 PM
Surr: 2-Fluorobiphenyl	89.7		70-130 %REC		1	11/18/2011 05:35 PM
<b>GASOLINE RANGE ORGANICS - SW8015C</b>			<b>SW8015</b>			Analyst: JFT
Gasoline Range Organics	ND		0.050 mg/Kg		1	11/21/2011 09:28 PM
Surr: 4-Bromofluorobenzene	114		70-130 %REC		1	11/21/2011 09:28 PM
<b>TRIVALENT CHROMIUM</b>			<b>CALCULATION</b>			Analyst: SKS
Chromium, Trivalent	5.97		5.00 mg/Kg		1	11/30/2011
<b>MERCURY - SW7471B</b>			<b>SW7471A</b>			Analyst: JCJ
Mercury	0.0103		0.00353 mg/Kg		1	11/22/2011 04:47 PM
<b>METALS</b>			<b>SW6020</b>			Analyst: ALR
Arsenic	1.59		0.450 mg/Kg		1	11/19/2011 04:07 AM
Barium	124		0.450 mg/Kg		1	11/19/2011 04:07 AM
Cadmium	ND		0.450 mg/Kg		1	11/19/2011 04:07 AM
Copper	9.66		0.450 mg/Kg		1	11/19/2011 04:07 AM
Lead	8.04		0.450 mg/Kg		1	11/19/2011 04:07 AM
Nickel	9.61		0.450 mg/Kg		1	11/19/2011 04:07 AM
Selenium	1.40		0.450 mg/Kg		1	11/19/2011 04:07 AM
Silver	ND		0.450 mg/Kg		1	11/19/2011 04:07 AM
Zinc	38.3		0.450 mg/Kg		1	11/19/2011 04:07 AM
<b>LA29B SODIUM ADSORPTION RATIO</b>			<b>LA29B SAR</b>			Analyst: ALR
Sodium Adsorption Ratio	0.410		0.0100 meq/meq		1	12/1/2011
<b>LA 29B - 1:1 SOLUBLE CATIONS FOR SAR</b>			<b>LA29B-6020</b>			Analyst: ALR
Calcium	176		5.00 mg/L		10	11/30/2011 08:28 PM
Magnesium	47.9		5.00 mg/L		10	11/30/2011 08:28 PM
Sodium	23.8		5.00 mg/L		10	11/30/2011 08:28 PM
<b>LOW-LEVEL SEMIVOLATILES</b>			<b>SW8270</b>			Analyst: LG
Acenaphthene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Anthracene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Chrysene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM
Fluoranthene	ND		0.0066 mg/Kg		1	11/18/2011 05:10 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

# ALS Environmental

Date: 01-Dec-11

**Client:** LT Environmental

**Project:** Daley 1

**Sample ID:** SS08 @ 6"

**Collection Date:** 11/15/2011 01:35 PM

**Work Order:** 1111578

**Lab ID:** 1111578-08

**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0066	mg/Kg	1	11/18/2011 05:10 AM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	11/18/2011 05:10 AM
Naphthalene	ND		0.0066	mg/Kg	1	11/18/2011 05:10 AM
Pyrene	ND		0.0066	mg/Kg	1	11/18/2011 05:10 AM
<i>Surr: 2,4,6-Tribromophenol</i>	61.5		36-126	%REC	1	11/18/2011 05:10 AM
<i>Surr: 2-Fluorobiphenyl</i>	59.6		43-125	%REC	1	11/18/2011 05:10 AM
<i>Surr: 2-Fluorophenol</i>	50.5		37-125	%REC	1	11/18/2011 05:10 AM
<i>Surr: 4-Terphenyl-d14</i>	69.4		32-125	%REC	1	11/18/2011 05:10 AM
<i>Surr: Nitrobenzene-d5</i>	51.4		37-125	%REC	1	11/18/2011 05:10 AM
<i>Surr: Phenol-d6</i>	49.6		40-125	%REC	1	11/18/2011 05:10 AM
<b>TCL VOLATILES</b>			<b>SW8260</b>			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	11/17/2011 03:52 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	11/17/2011 03:52 PM
m,p-Xylene	ND		0.010	mg/Kg	1	11/17/2011 03:52 PM
o-Xylene	ND		0.0050	mg/Kg	1	11/17/2011 03:52 PM
Toluene	ND		0.0050	mg/Kg	1	11/17/2011 03:52 PM
Xylenes, Total	ND		0.015	mg/Kg	1	11/17/2011 03:52 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	93.9		70-128	%REC	1	11/17/2011 03:52 PM
<i>Surr: 4-Bromofluorobenzene</i>	97.4		73-126	%REC	1	11/17/2011 03:52 PM
<i>Surr: Dibromofluoromethane</i>	102		71-128	%REC	1	11/17/2011 03:52 PM
<i>Surr: Toluene-d8</i>	97.1		73-127	%REC	1	11/17/2011 03:52 PM
<b>HEXAVALENT CHROMIUM</b>			<b>SW7196</b>		Prep Date: 11/28/2011	Analyst: TDW
Chromium, Hexavalent	ND		2.00	mg/Kg	1	11/28/2011 05:00 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	1.99		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Electrical Conductivity, 1:1 aqueous	1.22		0.0100	mmhos/cm @25	1	11/23/2011 01:30 PM
Saturation % as decimal	0.612			mmhos/cm @25	1	11/23/2011 01:30 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	1.22		0.100	% Saturation	1	11/23/2011 01:30 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.31		0.100	pH Units	1	11/21/2011 11:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

**QC BATCH REPORT**

Batch ID: <b>57013A</b>		Instrument ID <b>FID-7</b>		Method: <b>SW8015M</b>								
<b>MBLK</b>	Sample ID: <b>FBLKS1-111117-57013A</b>							Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 11:24 AM</b>		
Client ID:	Run ID: <b>FID-7_111118A</b>				SeqNo: <b>2610883</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
DRO (>C10 - C28)	ND	1.7										
<i>Surr: 2-Fluorobiphenyl</i>	2.95	0	3.3	0	89.4	70-130		0				
<b>LCS</b>	Sample ID: <b>FLCSS1-111117-57013A</b>							Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 11:44 AM</b>		
Client ID:	Run ID: <b>FID-7_111118A</b>				SeqNo: <b>2610884</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
DRO (>C10 - C28)	31.5	1.7	33.3	0	94.6	70-130		0				
<i>Surr: 2-Fluorobiphenyl</i>	3.41	0	3.3	0	103	70-130		0				
<b>MS</b>	Sample ID: <b>1111546-05DMS</b>							Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 01:39 PM</b>		
Client ID:	Run ID: <b>FID-7_111118A</b>				SeqNo: <b>2610885</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
DRO (>C10 - C28)	26.1	1.7	33.27	0	78.5	70-130		0				
<i>Surr: 2-Fluorobiphenyl</i>	2.364	0	3.297	0	71.7	70-130		0				
<b>MSD</b>	Sample ID: <b>1111546-05DMSD</b>							Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 01:59 PM</b>		
Client ID:	Run ID: <b>FID-7_111118A</b>				SeqNo: <b>2610886</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
DRO (>C10 - C28)	28.35	1.7	33.22	0	85.3	70-130	26.1	8.27	30			
<i>Surr: 2-Fluorobiphenyl</i>	2.442	0	3.292	0	74.2	70-130	2.364	3.22	30			

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A	1111578-08A	

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **R119602**      Instrument ID **FID-9**      Method: **SW8015**

MLBK Sample ID: GBLKS1-111121-R119602				Units: mg/Kg		Analysis Date: 11/21/2011 02:59 PM				
Client ID:		Run ID: FID-9_111121A		SeqNo: 2605174		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Gasoline Range Organics	ND	0.050								
<i>Surr: 4-Bromofluorobenzene</i>	0.1202	0.0050	0.1	0	120	70-130		0		

LCS Sample ID: GLCSS1-111121-R119602				Units: mg/Kg		Analysis Date: 11/21/2011 02:05 PM				
Client ID:		Run ID: FID-9_111121A		SeqNo: 2605172		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Gasoline Range Organics	1.181	0.050	1	0	118	70-130		0		
<i>Surr: 4-Bromofluorobenzene</i>	0.0955	0.0050	0.1	0	95.5	70-130		0		

LCSD Sample ID: GLCSDS1-111121-R119602				Units: mg/Kg		Analysis Date: 11/21/2011 02:23 PM				
Client ID:		Run ID: FID-9_111121A		SeqNo: 2605173		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Gasoline Range Organics	1.237	0.050	1	0	124	70-130	1.181	4.66	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1044	0.0050	0.1	0	104	70-130	0.0955	8.87	30	

MS Sample ID: 1111656-07BMS				Units: mg/Kg		Analysis Date: 11/21/2011 04:46 PM				
Client ID:		Run ID: FID-9_111121A		SeqNo: 2605218		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Gasoline Range Organics	0.7133	0.050	1	0.02858	68.5	70-130		0		S
<i>Surr: 4-Bromofluorobenzene</i>	0.1234	0.0050	0.1	0	123	70-130		0		

MSD Sample ID: 1111656-07BMSD				Units: mg/Kg		Analysis Date: 11/21/2011 05:04 PM				
Client ID:		Run ID: FID-9_111121A		SeqNo: 2605219		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Gasoline Range Organics	0.7398	0.050	1	0.02858	71.1	70-130	0.7133	3.65	30	
<i>Surr: 4-Bromofluorobenzene</i>	0.1259	0.0050	0.1	0	126	70-130	0.1234	2.02	30	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A	1111578-08A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57011**      Instrument ID **ICPMS04**      Method: **SW6020**

<b>MBLK</b>	Sample ID: <b>MBLKS2-111711-57011</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>11/19/2011 10:23 PM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>			SeqNo: <b>2603999</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.50								
Barium	ND	0.50								
Cadmium	ND	0.50								
Copper	ND	0.50								
Lead	ND	0.50								
Nickel	ND	0.50								
Selenium	ND	0.50								
Silver	ND	0.50								
Zinc	ND	0.50								

<b>LCS</b>	Sample ID: <b>MLCSS2-111711-57011</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 10:56 PM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>			SeqNo: <b>2603117</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.196	0.50	10	0	92	80-120		0		
Barium	10.22	0.50	10	0	102	80-120		0		
Cadmium	9.886	0.50	10	0	98.9	80-120		0		
Copper	9.58	0.50	10	0	95.8	80-120		0		
Lead	10.24	0.50	10	0	102	80-120		0		
Nickel	8.398	0.50	10	0	84	80-120		0		
Selenium	9.075	0.50	10	0	90.7	80-120		0		
Silver	8.923	0.50	10	0	89.2	80-120		0		
Zinc	9.006	0.50	10	0	90.1	80-120		0		

<b>MS</b>	Sample ID: <b>1111536-11CMS</b>			Units: <b>mg/Kg</b>		Analysis Date: <b>11/18/2011 11:20 PM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>			SeqNo: <b>2603121</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.84	0.44	8.909	2.036	98.9	75-125		0		
Barium	76.03	0.44	8.909	65.93	113	75-125		0		O
Cadmium	8.951	0.44	8.909	0.0144	100	75-125		0		
Copper	9.516	0.44	8.909	1.162	93.8	75-125		0		
Lead	11.12	0.44	8.909	1.62	107	75-125		0		
Nickel	13.6	0.44	8.909	5.258	93.7	75-125		0		
Selenium	8.748	0.44	8.909	0.8723	88.4	75-125		0		
Silver	8.259	0.44	8.909	0.004708	92.6	75-125		0		
Zinc	15.43	0.44	8.909	6.317	102	75-125		0		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57011**      Instrument ID **ICPMS04**      Method: **SW6020**

MSD      Sample ID: <b>1111536-11CMSD</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>11/18/2011 11:27 PM</b>			
Client ID:		Run ID: <b>ICPMS04_111118A</b>		SeqNo: <b>2603122</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.87	0.44	8.774	2.036	101	75-125	10.84	0.262	25	
Barium	80.54	0.44	8.774	65.93	166	75-125	76.03	5.76	25	SO
Cadmium	8.892	0.44	8.774	0.0144	101	75-125	8.951	0.653	25	
Copper	9.405	0.44	8.774	1.162	93.9	75-125	9.516	1.17	25	
Lead	10.66	0.44	8.774	1.62	103	75-125	11.12	4.14	25	
Nickel	14.18	0.44	8.774	5.258	102	75-125	13.6	4.12	25	
Selenium	8.718	0.44	8.774	0.8723	89.4	75-125	8.748	0.344	25	
Silver	8.06	0.44	8.774	0.004708	91.8	75-125	8.259	2.45	25	
Zinc	15.62	0.44	8.774	6.317	106	75-125	15.43	1.22	25	

DUP      Sample ID: <b>1111536-11CDUP</b>				Units: <b>mg/Kg</b>			Analysis Date: <b>11/18/2011 11:08 PM</b>			
Client ID:		Run ID: <b>ICPMS04_111118A</b>		SeqNo: <b>2603119</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	2.828	0.45	0	0	0	0-0	2.036	32.6	25	R
Barium	56.9	0.45	0	0	0	0-0	65.93	14.7	25	
Cadmium	ND	0.45	0	0	0	0-0	0.0144	0	25	
Copper	1.177	0.45	0	0	0	0-0	1.162	1.25	25	
Lead	1.875	0.45	0	0	0	0-0	1.62	14.6	25	
Nickel	6.069	0.45	0	0	0	0-0	5.258	14.3	25	
Selenium	0.8179	0.45	0	0	0	0-0	0.8723	6.45	25	
Silver	ND	0.45	0	0	0	0-0	0.004708	0	25	
Zinc	5.986	0.45	0	0	0	0-0	6.317	5.38	25	

The following samples were analyzed in this batch:

1111578-08A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57021**      Instrument ID **ICPMS04**      Method: **SW6020**

<b>MBLK</b>	Sample ID: <b>MBLKS3-111711-57021</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/19/2011 04:32 AM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>				SeqNo: <b>2603171</b>	Prep Date: <b>11/17/2011</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	ND	0.50									
Barium	0.1025	0.50								J	
Cadmium	ND	0.50									
Copper	0.1012	0.50								J	
Lead	ND	0.50									
Nickel	ND	0.50									
Selenium	ND	0.50									
Silver	ND	0.50									
Zinc	ND	0.50									

<b>LCS</b>	Sample ID: <b>MLCSS3-111711-57021</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/19/2011 04:38 AM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>				SeqNo: <b>2603172</b>	Prep Date: <b>11/17/2011</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.853	0.50	10	0	98.5	80-120		0			
Barium	10.54	0.50	10	0	105	80-120		0			
Cadmium	10.43	0.50	10	0	104	80-120		0			
Copper	10.63	0.50	10	0	106	80-120		0			
Lead	10.39	0.50	10	0	104	80-120		0			
Nickel	9.843	0.50	10	0	98.4	80-120		0			
Selenium	9.976	0.50	10	0	99.8	80-120		0			
Silver	9.971	0.50	10	0	99.7	80-120		0			
Zinc	9.813	0.50	10	0	98.1	80-120		0			

<b>MS</b>	Sample ID: <b>1111558-08AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>11/19/2011 05:03 AM</b>				
Client ID:	Run ID: <b>ICPMS04_111118A</b>				SeqNo: <b>2603176</b>	Prep Date: <b>11/17/2011</b>	DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.628	0.44	8.908	1.201	94.6	75-125		0			
Barium	110.1	0.44	8.908	98.13	135	75-125		0		SO	
Cadmium	9.092	0.44	8.908	0.02583	102	75-125		0			
Copper	15.76	0.44	8.908	7.185	96.3	75-125		0			
Lead	18.62	0.44	8.908	10.11	95.5	75-125		0			
Nickel	17.03	0.44	8.908	9.24	87.5	75-125		0			
Selenium	9.466	0.44	8.908	1.641	87.8	75-125		0			
Silver	8.214	0.44	8.908	0.04877	91.7	75-125		0			
Zinc	29.81	0.44	8.908	22.33	84	75-125		0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57021**      Instrument ID **ICPMS04**      Method: **SW6020**

**MSD**      Sample ID: **1111558-08AMSD**      Units: **mg/Kg**      Analysis Date: **11/19/2011 05:09 AM**

Client ID:      Run ID: **ICPMS04\_111118A**      SeqNo: **2603177**      Prep Date: **11/17/2011**      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.758	0.44	8.785	1.201	97.4	75-125	9.628	1.35	25	
Barium	108.7	0.44	8.785	98.13	120	75-125	110.1	1.29	25	O
Cadmium	9.044	0.44	8.785	0.02583	103	75-125	9.092	0.527	25	
Copper	15.61	0.44	8.785	7.185	95.9	75-125	15.76	0.957	25	
Lead	19.68	0.44	8.785	10.11	109	75-125	18.62	5.51	25	
Nickel	17.33	0.44	8.785	9.24	92.1	75-125	17.03	1.7	25	
Selenium	9.554	0.44	8.785	1.641	90.1	75-125	9.466	0.926	25	
Silver	8.296	0.44	8.785	0.04877	93.9	75-125	8.214	0.984	25	
Zinc	28.9	0.44	8.785	22.33	74.8	75-125	29.81	3.11	25	S

**DUP**      Sample ID: **1111558-08ADUP**      Units: **mg/Kg**      Analysis Date: **11/19/2011 04:51 AM**

Client ID:      Run ID: **ICPMS04\_111118A**      SeqNo: **2603174**      Prep Date: **11/17/2011**      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.257	0.45	0	0	0	0-0	1.201	4.58	25	
Barium	95.35	0.45	0	0	0	0-0	98.13	2.87	25	
Cadmium	ND	0.45	0	0	0	0-0	0.02583	0	25	
Copper	7.026	0.45	0	0	0	0-0	7.185	2.24	25	
Lead	9.764	0.45	0	0	0	0-0	10.11	3.53	25	
Nickel	8.954	0.45	0	0	0	0-0	9.24	3.13	25	
Selenium	1.663	0.45	0	0	0	0-0	1.641	1.3	25	
Silver	ND	0.45	0	0	0	0-0	0.04877	0	25	
Zinc	21.17	0.45	0	0	0	0-0	22.33	5.3	25	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57116**      Instrument ID **HG02**      Method: **SW7471A**

MBLK      Sample ID: <b>GBLKS1-112211-57116</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/22/2011 03:46 PM</b>				
Client ID:      Run ID: <b>HG02_111122A</b>				SeqNo: <b>2606459</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND		3.3							
LCS      Sample ID: <b>GLCSS1-112211-57116</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/22/2011 03:48 PM</b>				
Client ID:      Run ID: <b>HG02_111122A</b>				SeqNo: <b>2606460</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	324	3.3	333.3	0	97.2	85-115		0		
MS      Sample ID: <b>1111656-01BMS</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/22/2011 04:01 PM</b>				
Client ID:      Run ID: <b>HG02_111122A</b>				SeqNo: <b>2606463</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	343.6	3.6	361.7	27.84	87.3	85-115		0		
MSD      Sample ID: <b>1111656-01BMSD</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/22/2011 04:03 PM</b>				
Client ID:      Run ID: <b>HG02_111122A</b>				SeqNo: <b>2606464</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	336.8	3.6	363	27.84	85.1	85-115	343.6	1.98	20	
DUP      Sample ID: <b>1111656-01BDUP</b>				Units: <b>µg/Kg</b>		Analysis Date: <b>11/22/2011 03:59 PM</b>				
Client ID:      Run ID: <b>HG02_111122A</b>				SeqNo: <b>2606462</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	26.17	3.5	0	0	0		27.84	6.2	20	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A	1111578-08A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57133**      Instrument ID **ICPMS03**      Method: **La29B-6020**

MBLK      Sample ID: <b>BLK-112211 SAR-57133</b>				Units: <b>mg/L</b>		Analysis Date: <b>11/30/2011 01:32 AM</b>				
Client ID: <b>ICPMS03_111128A</b>				SeqNo: <b>2613161</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.50								
Sodium	ND	0.50								
LCS      Sample ID: <b>LCS-112211 SAR-57133</b>				Units: <b>mg/L</b>		Analysis Date: <b>11/30/2011 01:38 AM</b>				
Client ID: <b>ICPMS03_111128A</b>				SeqNo: <b>2613162</b>		Prep Date: <b>11/22/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	9.363	0.50	10	0	93.6	80-120	0			
Magnesium	9.103	0.50	10	0	91	80-120	0			
Sodium	9.013	0.50	10	0	90.1	80-120	0			
DUP      Sample ID: <b>1111578-01BDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>11/30/2011 01:51 AM</b>				
Client ID: <b>SS01 @ 6"</b>		Run ID: <b>ICPMS03_111128A</b>		SeqNo: <b>2613164</b>		Prep Date: <b>11/22/2011</b>		DF: <b>10</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	187.8	5.0	0	0	0	175.9				30
Magnesium	91.46	5.0	0	0	0	87.96				30
Sodium	110.2	5.0	0	0	0	105.4				30

The following samples were analyzed in this batch:

1111578-01B	1111578-02B	1111578-03B
1111578-04B	1111578-05B	1111578-06B
1111578-07B	1111578-08B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57133a**      Instrument ID **MISC-Metals**      Method: **La29B SAR**

DUP	Sample ID: <b>1111578-01BDUP</b>			Units: <b>meq/meq</b>		Analysis Date: <b>12/1/2011</b>				
Client ID:	<b>SS01 @ 6"</b>			Run ID: <b>MISC-METALS_111201</b>		SeqNo: <b>2614683</b>	Prep Date: <b>11/22/2011</b>	DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.65	0.010	0	0	0		1.61	2.45	30	

The following samples were analyzed in this batch:

1111578-01B	1111578-02B	1111578-03B
1111578-04B	1111578-05B	1111578-06B
1111578-07B	1111578-08B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57015**      Instrument ID **SV-4**      Method: **SW8270**

<b>MBLK</b>	Sample ID: <b>SBLKS1-111117-57015</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>11/18/2011 01:48 AM</b>				
Client ID:	Run ID: <b>SV-4_111117B</b>			SeqNo:	<b>2609877</b>	Prep Date:	<b>11/17/2011</b>	DF:	<b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Pyrene	ND	6.6								
<i>Surr: 2,4,6-Tribromophenol</i>	139.6	6.6	166.7	0	83.8	36-126	0			
<i>Surr: 2-Fluorobiphenyl</i>	148.2	6.6	166.7	0	88.9	43-125	0			
<i>Surr: 2-Fluorophenol</i>	141.2	6.6	166.7	0	84.7	37-125	0			
<i>Surr: 4-Terphenyl-d14</i>	158.8	6.6	166.7	0	95.3	32-125	0			
<i>Surr: Nitrobenzene-d5</i>	133	6.6	166.7	0	79.8	37-125	0			
<i>Surr: Phenol-d6</i>	133.9	6.6	166.7	0	80.3	40-125	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57015**      Instrument ID **SV-4**      Method: **SW8270**

LCS	Sample ID: <b>SLCSS1-111117-57015</b>			Units: <b>µg/Kg</b>		Analysis Date: <b>11/18/2011 02:09 AM</b>				
Client ID:	Run ID: <b>SV-4_111117B</b>			SeqNo: <b>2609878</b>		Prep Date: <b>11/17/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	158	6.6	166.7	0	94.8	50-120		0		
Anthracene	159.9	6.6	166.7	0	95.9	50-123		0		
Benz(a)anthracene	154.9	6.6	166.7	0	93	50-131		0		
Benzo(a)pyrene	167.9	6.6	166.7	0	101	50-130		0		
Benzo(b)fluoranthene	172.4	6.6	166.7	0	103	50-137		0		
Benzo(k)fluoranthene	181.1	6.6	166.7	0	109	50-143		0		
Chrysene	157	6.6	166.7	0	94.2	50-130		0		
Dibenz(a,h)anthracene	168.5	6.6	166.7	0	101	50-130		0		
Fluoranthene	163.5	6.6	166.7	0	98.1	50-131		0		
Fluorene	155.6	6.6	166.7	0	93.4	50-125		0		
Indeno(1,2,3-cd)pyrene	158	6.6	166.7	0	94.8	45-139		0		
Naphthalene	157.4	6.6	166.7	0	94.4	50-125		0		
Pyrene	155.5	6.6	166.7	0	93.3	45-130		0		
<i>Surr: 2,4,6-Tribromophenol</i>	147.4	6.6	166.7	0	88.5	36-126		0		
<i>Surr: 2-Fluorobiphenyl</i>	156	6.6	166.7	0	93.6	43-125		0		
<i>Surr: 2-Fluorophenol</i>	158.1	6.6	166.7	0	94.8	37-125		0		
<i>Surr: 4-Terphenyl-d14</i>	157.2	6.6	166.7	0	94.3	32-125		0		
<i>Surr: Nitrobenzene-d5</i>	141.3	6.6	166.7	0	84.8	37-125		0		
<i>Surr: Phenol-d6</i>	141.9	6.6	166.7	0	85.1	40-125		0		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 11 of 23

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57015**      Instrument ID **SV-4**      Method: **SW8270**

MS	Sample ID: <b>1111578-08AMS</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>11/18/2011 05:30 AM</b>			
Client ID:	<b>SS08 @ 6"</b>			<b>Run ID: SV-4_111117B</b>			<b>SeqNo: 2609879</b>	<b>Prep Date: 11/17/2011</b>	<b>DF: 1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	106.5	6.6	166.3	0	64	50-120	0	0		
Anthracene	111.6	6.6	166.3	0	67.1	50-123	0	0		
Benz(a)anthracene	112.5	6.6	166.3	0	67.6	50-131	0	0		
Benzo(a)pyrene	114.6	6.6	166.3	0	68.9	50-130	0	0		
Benzo(b)fluoranthene	111.2	6.6	166.3	0	66.8	50-137	0	0		
Benzo(k)fluoranthene	124.5	6.6	166.3	0	74.8	50-143	0	0		
Chrysene	108	6.6	166.3	0	64.9	50-130	0	0		
Dibenz(a,h)anthracene	117.7	6.6	166.3	0	70.8	50-130	0	0		
Fluoranthene	114.4	6.6	166.3	0	68.8	50-131	0	0		
Fluorene	108.4	6.6	166.3	0	65.2	50-125	0	0		
Indeno(1,2,3-cd)pyrene	118	6.6	166.3	0	70.9	45-139	0	0		
Naphthalene	104.5	6.6	166.3	0	62.8	50-125	0	0		
Pyrene	115.9	6.6	166.3	0	69.7	45-130	0	0		
<i>Surr: 2,4,6-Tribromophenol</i>	107	6.6	166.3	0	64.3	36-126	0	0		
<i>Surr: 2-Fluorobiphenyl</i>	106.3	6.6	166.3	0	63.9	43-125	0	0		
<i>Surr: 2-Fluorophenol</i>	95.49	6.6	166.3	0	57.4	37-125	0	0		
<i>Surr: 4-Terphenyl-d14</i>	112.6	6.6	166.3	0	67.7	32-125	0	0		
<i>Surr: Nitrobenzene-d5</i>	100.5	6.6	166.3	0	60.4	37-125	0	0		
<i>Surr: Phenol-d6</i>	97.83	6.6	166.3	0	58.8	40-125	0	0		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 12 of 23

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57015**      Instrument ID **SV-4**      Method: **SW8270**

MSD	Sample ID: <b>1111578-08AMSD</b>			Units: <b>µg/Kg</b>			Analysis Date: <b>11/18/2011 05:50 AM</b>			
Client ID:	Run ID: <b>SV-4_111117B</b>			SeqNo: <b>2609880</b>			Prep Date: <b>11/17/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	94.51	6.6	166.6	0	56.7	50-120	106.5	12	30	
Anthracene	104.7	6.6	166.6	0	62.9	50-123	111.6	6.34	30	
Benz(a)anthracene	102.6	6.6	166.6	0	61.6	50-131	112.5	9.19	30	
Benzo(a)pyrene	121.7	6.6	166.6	0	73.1	50-130	114.6	6.05	30	
Benzo(b)fluoranthene	107.4	6.6	166.6	0	64.5	50-137	111.2	3.48	30	
Benzo(k)fluoranthene	127.5	6.6	166.6	0	76.5	50-143	124.5	2.36	30	
Chrysene	104.7	6.6	166.6	0	62.9	50-130	108	3.13	30	
Dibenz(a,h)anthracene	125.5	6.6	166.6	0	75.4	50-130	117.7	6.41	30	
Fluoranthene	112.3	6.6	166.6	0	67.4	50-131	114.4	1.83	30	
Fluorene	98.62	6.6	166.6	0	59.2	50-125	108.4	9.44	30	
Indeno(1,2,3-cd)pyrene	118.9	6.6	166.6	0	71.4	45-139	118	0.771	30	
Naphthalene	105.9	6.6	166.6	0	63.6	50-125	104.5	1.31	30	
Pyrene	110.4	6.6	166.6	0	66.3	45-130	115.9	4.89	30	
Surr: 2,4,6-Tribromophenol	105.8	6.6	166.6	0	63.5	36-126	107	1.15	30	
Surr: 2-Fluorobiphenyl	96.07	6.6	166.6	0	57.7	43-125	106.3	10.1	30	
Surr: 2-Fluorophenol	105	6.6	166.6	0	63	37-125	95.49	9.48	30	
Surr: 4-Terphenyl-d14	107	6.6	166.6	0	64.3	32-125	112.6	5.07	30	
Surr: Nitrobenzene-d5	94.94	6.6	166.6	0	57	37-125	100.5	5.73	30	
Surr: Phenol-d6	98.65	6.6	166.6	0	59.2	40-125	97.83	0.832	30	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A	1111578-08A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119414      Instrument ID VOA3      Method: SW8260

MLK Sample ID: VBLKS1-111411-R119414				Units: µg/Kg		Analysis Date: 11/17/2011 12:29 PM				
Client ID: Run ID: VOA3_111117A				SeqNo: 2600980		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	43.28	0	50	0	86.6	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.24	0	50	0	96.5	73-126	0			
<i>Surr: Dibromofluoromethane</i>	41.4	0	50	0	82.8	71-128	0			
<i>Surr: Toluene-d8</i>	49.44	0	50	0	98.9	73-127	0			

LCS Sample ID: VLCSS1-111411-R119414				Units: µg/Kg		Analysis Date: 11/17/2011 11:35 AM				
Client ID: Run ID: VOA3_111117A				SeqNo: 2600979		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.16	5.0	50	0	100	79-120	0			
Ethylbenzene	49.33	5.0	50	0	98.7	80-122	0			
m,p-Xylene	97.23	10	100	0	97.2	79-122	0			
o-Xylene	47.3	5.0	50	0	94.6	80-123	0			
Toluene	49.14	5.0	50	0	98.3	79-120	0			
Xylenes, Total	144.5	15	150	0	96.3	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	49.22	0	50	0	98.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.58	0	50	0	97.2	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.36	0	50	0	101	71-128	0			
<i>Surr: Toluene-d8</i>	50.19	0	50	0	100	73-127	0			

MS Sample ID: 1111578-01ZMS				Units: µg/Kg		Analysis Date: 11/17/2011 01:52 PM				
Client ID: SS01 @ 6"		Run ID: VOA3_111117A		SeqNo: 2600983		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	55.72	5.0	50	2.958	106	79-120	0			
Ethylbenzene	56.4	5.0	50	2.049	109	80-122	0			
m,p-Xylene	148	10	100	26.83	121	79-122	0			
o-Xylene	61.15	5.0	50	5.616	111	80-123	0			
Toluene	66.46	5.0	50	11.53	110	79-120	0			
Xylenes, Total	209.1	15	150	32.44	118	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	45.57	0	50	0	91.1	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	52.61	0	50	0	105	73-126	0			
<i>Surr: Dibromofluoromethane</i>	50.41	0	50	0	101	71-128	0			
<i>Surr: Toluene-d8</i>	49.89	0	50	0	99.8	73-127	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119414      Instrument ID VOA3      Method: SW8260

MSD	Sample ID: 1111578-01ZMSD			Units: µg/Kg		Analysis Date: 11/17/2011 02:19 PM				
Client ID:	Run ID: VOA3_111117A			SeqNo: 2600984		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.69	5.0	50	2.958	103	79-120	55.72	1.87	30	
Ethylbenzene	55.32	5.0	50	2.049	107	80-122	56.4	1.93	30	
m,p-Xylene	139.3	10	100	26.83	112	79-122	148	6.06	30	
o-Xylene	57	5.0	50	5.616	103	80-123	61.15	7.03	30	
Toluene	64.31	5.0	50	11.53	106	79-120	66.46	3.29	30	
Xylenes, Total	196.3	15	150	32.44	109	80-120	209.1	6.34	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	45.86	0	50	0	91.7	70-128	45.57	0.632	30	
<i>Surr: 4-Bromofluorobenzene</i>	49.9	0	50	0	99.8	73-126	52.61	5.29	30	
<i>Surr: Dibromofluoromethane</i>	45.88	0	50	0	91.8	71-128	50.41	9.4	30	
<i>Surr: Toluene-d8</i>	51.05	0	50	0	102	73-127	49.89	2.29	30	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119428      Instrument ID VOA5      Method: SW8260

MBLK      Sample ID: VBLKS1-111711-R119428				Units: <b>µg/Kg</b>		Analysis Date: 11/17/2011 10:30 AM				
Client ID: Run ID: VOA5_111117A				SeqNo: 2601403		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	41.71	0	50	0	83.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	47.35	0	50	0	94.7	73-126	0			
<i>Surr: Dibromofluoromethane</i>	48.68	0	50	0	97.4	71-128	0			
<i>Surr: Toluene-d8</i>	49.26	0	50	0	98.5	73-127	0			

LCS      Sample ID: VLCSS1-111711-R119428				Units: <b>µg/Kg</b>		Analysis Date: 11/17/2011 08:58 AM				
Client ID: Run ID: VOA5_111117A				SeqNo: 2601401		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.4	5.0	50	0	109	79-120	0			
Ethylbenzene	52.46	5.0	50	0	105	80-122	0			
m,p-Xylene	105.5	10	100	0	106	79-122	0			
o-Xylene	52.09	5.0	50	0	104	80-123	0			
Toluene	51.56	5.0	50	0	103	79-120	0			
Xylenes, Total	157.6	15	150	0	105	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	46.32	0	50	0	92.6	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.56	0	50	0	97.1	73-126	0			
<i>Surr: Dibromofluoromethane</i>	52.14	0	50	0	104	71-128	0			
<i>Surr: Toluene-d8</i>	48.22	0	50	0	96.4	73-127	0			

LCSD      Sample ID: VLCSDS1-111711-R119428				Units: <b>µg/Kg</b>		Analysis Date: 11/17/2011 09:21 AM				
Client ID: Run ID: VOA5_111117A				SeqNo: 2601402		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.68	5.0	50	0	105	79-120	54.4	3.22	30	
Ethylbenzene	52.11	5.0	50	0	104	80-122	52.46	0.665	30	
m,p-Xylene	103.2	10	100	0	103	79-122	105.5	2.28	30	
o-Xylene	52.1	5.0	50	0	104	80-123	52.09	0.0105	30	
Toluene	51.72	5.0	50	0	103	79-120	51.56	0.308	30	
Xylenes, Total	155.3	15	150	0	104	80-120	157.6	1.51	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	44.5	0	50	0	89	70-128	46.32	4	30	
<i>Surr: 4-Bromofluorobenzene</i>	47.36	0	50	0	94.7	73-126	48.56	2.49	30	
<i>Surr: Dibromofluoromethane</i>	51.69	0	50	0	103	71-128	52.14	0.871	30	
<i>Surr: Toluene-d8</i>	49.05	0	50	0	98.1	73-127	48.22	1.7	30	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119428      Instrument ID VOA5      Method: SW8260

MS	Sample ID: 1111549-03AMS				Units: µg/Kg		Analysis Date: 11/17/2011 11:39 AM			
Client ID:	Run ID: VOA5_111117A				SeqNo: 2601406		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	64.95	5.0	50	0	130	79-120	0	0		S
Ethylbenzene	62.63	5.0	50	0	125	80-122	0	0		S
m,p-Xylene	122.5	10	100	0	123	79-122	0	0		S
o-Xylene	61.04	5.0	50	0	122	80-123	0	0		
Toluene	60.83	5.0	50	0	122	79-120	0	0		S
Xlenes, Total	183.6	15	150	0	122	80-120	0	0		S
<i>Surr: 1,2-Dichloroethane-d4</i>	43.87	0	50	0	87.7	70-128	0	0		
<i>Surr: 4-Bromofluorobenzene</i>	46.54	0	50	0	93.1	73-126	0	0		
<i>Surr: Dibromofluoromethane</i>	50.83	0	50	0	102	71-128	0	0		
<i>Surr: Toluene-d8</i>	48.09	0	50	0	96.2	73-127	0	0		

MSD	Sample ID: 1111549-03AMSD				Units: µg/Kg		Analysis Date: 11/17/2011 12:02 PM			
Client ID:	Run ID: VOA5_111117A				SeqNo: 2601407		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	61.15	5.0	50	0	122	79-120	64.95	6.03	30	S
Ethylbenzene	60.08	5.0	50	0	120	80-122	62.63	4.16	30	
m,p-Xylene	119	10	100	0	119	79-122	122.5	2.97	30	
o-Xylene	58.93	5.0	50	0	118	80-123	61.04	3.51	30	
Toluene	59.04	5.0	50	0	118	79-120	60.83	2.98	30	
Xlenes, Total	177.9	15	150	0	119	80-120	183.6	3.15	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	44.39	0	50	0	88.8	70-128	43.87	1.18	30	
<i>Surr: 4-Bromofluorobenzene</i>	48.79	0	50	0	97.6	73-126	46.54	4.72	30	
<i>Surr: Dibromofluoromethane</i>	52.17	0	50	0	104	71-128	50.83	2.59	30	
<i>Surr: Toluene-d8</i>	48.97	0	50	0	97.9	73-127	48.09	1.81	30	

The following samples were analyzed in this batch:

1111578-08A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119538      Instrument ID VOA5      Method: SW8260

MBLK      Sample ID: VBLKS1-111811-R119538				Units: <b>µg/Kg</b>		Analysis Date: 11/18/2011 09:51 AM				
Client ID: Run ID: VOA5_111118A				SeqNo: 2603789		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
<i>Surr: 1,2-Dichloroethane-d4</i>	43.68	0	50	0	87.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.13	0	50	0	98.3	73-126	0			
<i>Surr: Dibromofluoromethane</i>	48.2	0	50	0	96.4	71-128	0			
<i>Surr: Toluene-d8</i>	48.85	0	50	0	97.7	73-127	0			

LCS      Sample ID: VLCSS1-111811-R119538				Units: <b>µg/Kg</b>		Analysis Date: 11/18/2011 08:19 AM				
Client ID: Run ID: VOA5_111118A				SeqNo: 2603787		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.69	5.0	50	0	107	79-120	0			
Ethylbenzene	52.59	5.0	50	0	105	80-122	0			
m,p-Xylene	104.2	10	100	0	104	79-122	0			
o-Xylene	51.46	5.0	50	0	103	80-123	0			
Toluene	51.35	5.0	50	0	103	79-120	0			
Xylenes, Total	155.7	15	150	0	104	80-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	45.18	0	50	0	90.4	70-128	0			
<i>Surr: 4-Bromofluorobenzene</i>	47.42	0	50	0	94.8	73-126	0			
<i>Surr: Dibromofluoromethane</i>	51.18	0	50	0	102	71-128	0			
<i>Surr: Toluene-d8</i>	48.26	0	50	0	96.5	73-127	0			

LCSD      Sample ID: VLCSDS1-111811-R119538				Units: <b>µg/Kg</b>		Analysis Date: 11/18/2011 08:42 AM				
Client ID: Run ID: VOA5_111118A				SeqNo: 2603788		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.98	5.0	50	0	104	79-120	53.69	3.23	30	
Ethylbenzene	50.86	5.0	50	0	102	80-122	52.59	3.34	30	
m,p-Xylene	99.97	10	100	0	100	79-122	104.2	4.13	30	
o-Xylene	49.46	5.0	50	0	98.9	80-123	51.46	3.96	30	
Toluene	49.54	5.0	50	0	99.1	79-120	51.35	3.59	30	
Xylenes, Total	149.4	15	150	0	99.6	80-120	155.7	4.08	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	47.44	0	50	0	94.9	70-128	45.18	4.87	30	
<i>Surr: 4-Bromofluorobenzene</i>	48.75	0	50	0	97.5	73-126	47.42	2.76	30	
<i>Surr: Dibromofluoromethane</i>	54.73	0	50	0	109	71-128	51.18	6.71	30	
<i>Surr: Toluene-d8</i>	49.17	0	50	0	98.3	73-127	48.26	1.87	30	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **R119538**      Instrument ID **VOA5**      Method: **SW8260**

MS      Sample ID: <b>1111578-04ZMS</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>11/18/2011 11:46 AM</b>			
Client ID: <b>SS04 @ 6"</b>		Run ID: <b>VOA5_111118A</b>		SeqNo: <b>2603791</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.69	5.0	50	0	99.4	79-120		0		
Ethylbenzene	50.37	5.0	50	0	101	80-122		0		
m,p-Xylene	97.58	10	100	0	97.6	79-122		0		
o-Xylene	49.29	5.0	50	0	98.6	80-123		0		
Toluene	51.35	5.0	50	0	103	79-120		0		
Xlenes, Total	146.9	15	150	0	97.9	80-120		0		
Surr: 1,2-Dichloroethane-d4	44.09	0	50	0	88.2	70-128		0		
Surr: 4-Bromofluorobenzene	48.23	0	50	0	96.5	73-126		0		
Surr: Dibromofluoromethane	51	0	50	0	102	71-128		0		
Surr: Toluene-d8	50.73	0	50	0	101	73-127		0		

MSD      Sample ID: <b>1111578-04ZMSD</b>				Units: <b>µg/Kg</b>			Analysis Date: <b>11/18/2011 12:09 PM</b>			
Client ID: <b>SS04 @ 6"</b>		Run ID: <b>VOA5_111118A</b>		SeqNo: <b>2603792</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.04	5.0	50	0	94.1	79-120	49.69	5.47	30	
Ethylbenzene	44.83	5.0	50	0	89.7	80-122	50.37	11.6	30	
m,p-Xylene	87.09	10	100	0	87.1	79-122	97.58	11.4	30	
o-Xylene	42.91	5.0	50	0	85.8	80-123	49.29	13.9	30	
Toluene	46.03	5.0	50	0	92.1	79-120	51.35	10.9	30	
Xlenes, Total	130	15	150	0	86.7	80-120	146.9	12.2	30	
Surr: 1,2-Dichloroethane-d4	44.81	0	50	0	89.6	70-128	44.09	1.63	30	
Surr: 4-Bromofluorobenzene	47.69	0	50	0	95.4	73-126	48.23	1.11	30	
Surr: Dibromofluoromethane	51.85	0	50	0	104	71-128		51	1.66	30
Surr: Toluene-d8	50.87	0	50	0	102	73-127	50.73	0.261	30	

The following samples were analyzed in this batch:

1111578-04A	1111578-05A	1111578-06A
1111578-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **57213**      Instrument ID **UV-2450**      Method: **SW7196**

MBLK      Sample ID: <b>WBLKS1-112811-57213</b>				Units: <b>mg/kg</b>		Analysis Date: <b>11/28/2011 05:00 PM</b>				
Client ID:      Run ID: <b>UV-2450_111128C</b>				SeqNo: <b>2611388</b>		Prep Date: <b>11/28/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND		1.9							
LCS      Sample ID: <b>WL.CSS1-112811-57213</b>				Units: <b>mg/kg</b>		Analysis Date: <b>11/28/2011 05:00 PM</b>				
Client ID:      Run ID: <b>UV-2450_111128C</b>				SeqNo: <b>2611389</b>		Prep Date: <b>11/28/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	11	2.1	10	0	110	80-120		0		
LCSD      Sample ID: <b>WL.CSDS1-112811-57213</b>				Units: <b>mg/kg</b>		Analysis Date: <b>11/28/2011 05:00 PM</b>				
Client ID:      Run ID: <b>UV-2450_111128C</b>				SeqNo: <b>2611405</b>		Prep Date: <b>11/28/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.24	2.0	10	0	102	80-120		11	7.15	20
MS      Sample ID: <b>1111578-02AMS</b>				Units: <b>mg/kg</b>		Analysis Date: <b>11/28/2011 05:00 PM</b>				
Client ID: <b>SS02 @ 6"</b> Run ID: <b>UV-2450_111128C</b>				SeqNo: <b>2611407</b>		Prep Date: <b>11/28/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	9.911	2.0	10	0.5465	93.6	75-125		0		
DUP      Sample ID: <b>1111578-02ADUP</b>				Units: <b>mg/kg</b>		Analysis Date: <b>11/28/2011 05:00 PM</b>				
Client ID: <b>SS02 @ 6"</b> Run ID: <b>UV-2450_111128C</b>				SeqNo: <b>2611406</b>		Prep Date: <b>11/28/2011</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	2.0	0	0	0	0-0	0.5465	0	20	

The following samples were analyzed in this batch:

1111578-01A	1111578-02A	1111578-03A
1111578-04A	1111578-05A	1111578-06A
1111578-07A	1111578-08A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: **R119571**      Instrument ID **WetChem**      Method: **SW9045B**

**LCS**      Sample ID: **WL.CSS1-112111-R119571**      Units: **pH Units**      Analysis Date: **11/21/2011 11:00 AM**

Client ID:      Run ID: **WETCHEM\_111121D**      SeqNo: **2604460**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.98	0.10	6	0	99.7	90-110	0	0		

**DUP**      Sample ID: **1111511-02ADUP**      Units: **pH Units**      Analysis Date: **11/21/2011 11:00 AM**

Client ID:      Run ID: **WETCHEM\_111121D**      SeqNo: **2604476**      Prep Date:      DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.25	0.10	0	0	0	0-0	9.17	0.869	20	

The following samples were analyzed in this batch:

1111578-01B	1111578-02B	1111578-03B
1111578-04B	1111578-05B	1111578-06B
1111578-07B	1111578-08B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119830      Instrument ID WetChem      Method: LaDNR-29B EC

Mblk				Sample ID: WBLKW1-112311-R119830		Units: mmhos/cm @25°C		Analysis Date: 11/23/2011 01:30 PM		
Client ID:		Run ID: WETCHEM_111123I		SeqNo: 2610539		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	ND	0.010								
Electrical Conductivity, 1:1 aqueous	ND	0.010								
Saturation % as decimal	ND	0								
LCS	Sample ID: WLCSS1-112311-R119830				Units: mmhos/cm @25°C		Analysis Date: 11/23/2011 01:30 PM			
Client ID:	Run ID: WETCHEM_111123I		SeqNo: 2610540		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	1.45	0.010	1.412	0	103	90-110	0			
DUP	Sample ID: 1111578-01BDUP				Units: mmhos/cm @25°C		Analysis Date: 11/23/2011 01:30 PM			
Client ID: SS01 @ 6"	Run ID: WETCHEM_111123I		SeqNo: 2610563		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	6.23	0.010	0	0	0		6.113	1.9	20	
Electrical Conductivity, 1:1 aqueous	2.84	0.010	0	0	0		2.76	2.86	20	
Saturation % as decimal	0.456	0	0	0	0		0.452	0.881		

The following samples were analyzed in this batch:

1111578-01B	1111578-02B	1111578-03B
1111578-04B	1111578-05B	1111578-06B
1111578-07B	1111578-08B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1111578  
**Project:** Daley 1

## QC BATCH REPORT

Batch ID: R119832      Instrument ID Balance1      Method: LaDNR-29B SP

DUP	Sample ID: 1111578-01BDUP			Units: % Saturation		Analysis Date: 11/23/2011 01:30 PM				
Client ID:	SS01 @ 6"	Run ID: BALANCE1_111123D			SeqNo: 2610628	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	2.84	0.10	0	0	0		2.76	2.86	30	

The following samples were analyzed in this batch:

1111578-01B	1111578-02B	1111578-03B
1111578-04B	1111578-05B	1111578-06B
1111578-07B	1111578-08B	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 23 of 23

**Client:** LT Environmental  
**Project:** Daley 1  
**WorkOrder:** 1111578

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**Units Reported**   **Description**

% Saturation  
meq/meq  
mg/Kg      Milligrams per Kilogram  
mg/L        Milligrams per Liter  
imhos/cm @25°  
pH Units



## □ ALS Laboratory Group

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Houston, Texas 77099  
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Fax. +1 281 530 5887

## Chain of Custody Form

Page 1 of 1

1111578

LT ENVIRONMENTAL: LT Environmental

Project: Daley 1



## ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Daley 1	A	BTEX 0000
Work Order		Project Number	027311044	B	TPH GRO1DRO 8015
Company Name	LT Environmental	Bill To Company	LT Environmental	C	PAH 8270 SIM
Send Report To	Brian Dodek	Invoice Attn	Brian Dodek	D	EC
Address	4600 W 60th Ave	Address	4600 W 60th Ave	E	pH
City/State/Zip	Arvada CO 80003	City/State/Zip	Arvada CO 80003	F	SAR
Phone	3034339788	Phone	3034339788	G	Table 910 Metals: Barium, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury Nickel, Selenium, Silver, Zinc
Fax		Fax		H	
e-Mail Address	bododek@ltenv.com	e-Mail Address	bododek@ltenv.com	I	
J	Arsenic 6020				

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS01@6"	11-15-11	1630	Soil	none	2											
2	SS02@6"		1530														
3	SS03@6"		1510														
4	SS04@6"		1430														
5	SS05@6"		1355														
6	SS06@6"		1300														
7	SS07@6"		1200														
8	SS08@6"	↓	1335	↓	↓	2	↓										
9																	
10																	

Sampler(s) Please Print &amp; Sign

Jacob Janicek	Shipment Method	Required Turnaround Time: (Check Box)	<input checked="" type="checkbox"/> Other	Standard 7 days	Results Due Date:
	FedEx	<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			

Relinquished by:

Jacob Janicek	Date: 11-16-11	Time: 1445	Received by: John All 11/17/2011	Notes:
---------------	----------------	------------	----------------------------------	--------

Relinquished by:

	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp	QC Package: (Check One Box Below)
--	-------	-------	---------------------------	-----------	-------------	-----------------------------------

Logged by (Laboratory):

	Date:	Time:	Checked by (Laboratory):			
--	-------	-------	--------------------------	--	--	--

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-5035

- Level II Std QC     TRRP Checklist  
 Level III Std QC/Raw Date     TRRP Level IV  
 Level IV SW846/CLP  
 Other EDD / PDF

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

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# ALS Environmental

## Sample Receipt Checklist

Client Name: LT ENVIRONMENTAL

Date/Time Received: 17-Nov-11 07:30

Work Order: 1111578

Received by: JBA

Checklist completed by Johnnie B. Allen  
eSignature

17-Nov-11

Date

Reviewed by: Nicole Brown  
eSignature

17-Nov-11

Date

Matrices: SOIL/WATER

Carrier name: FedEx

- |   |   |                             |   |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |

Temperature(s)/Thermometer(s):

1.7 C      002

Cooler(s)/Kit(s):

3261

Water - VOA vials have zero headspace?

Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt?

Yes  No  N/A

pH adjusted?

Yes  No  N/A

pH adjusted by:

-

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

*At this portion can be removed for recipients records.*

To 11-16-11 FedEx Tracking Number 877064684356

Sender's Name Jake Janicek Phone 920-882-2314

Company LT Environmental

Address 820 Megan Ave Unit B Dept/Floor/Suite/Room  
R.F.D. CO ZIP 54650

Our Internal Billing Reference 027311044



16-Dec-2011

Brian Dodek  
LT Environmental  
4600 West 60th Avenue  
Arvada, CO 80003

Tel: (303) 962-5535  
Fax: (303) 433-1432

Re: Daley 1 - 027311044

Work Order: **1112295**

Dear Brian,

ALS Environmental received 4 samples on 09-Dec-2011 07:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Nicole Brown".

Electronically approved by: Yvan K. Ty

Nicole Brown  
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#UR X S#VD /#PR US##Schw#mch#OV#Oderudwu|#Jurxs#D#Pdp sehatEurwkhu#Olp lmg#Frp sdq |

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Work Order:** **1112295**

**Work Order Sample Summary**

<b>Lab Samp ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>	<b>Hold</b>
1112295-01	BG01	Soil		12/7/2011 11:36	12/9/2011 07:45	<input type="checkbox"/>
1112295-02	BG02	Soil		12/7/2011 11:43	12/9/2011 07:45	<input type="checkbox"/>
1112295-03	BG03	Soil		12/7/2011 11:27	12/9/2011 07:45	<input type="checkbox"/>
1112295-04	BG04	Soil		12/7/2011 11:52	12/9/2011 07:45	<input type="checkbox"/>

---

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Work Order:** 1112295

---

**Case Narrative**

No exceptions.

**ALS Environmental****Date:** 16-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** BG01  
**Collection Date:** 12/7/2011 11:36 AM

**Work Order:** 1112295  
**Lab ID:** 1112295-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b> Arsenic	2.07		<b>SW6020</b> 0.474	mg/Kg	Prep Date: 12/12/2011 1	Analyst: IGF 12/13/2011 05:55 AM

---

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 16-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** BG02  
**Collection Date:** 12/7/2011 11:43 AM

**Work Order:** 1112295  
**Lab ID:** 1112295-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.61		0.447 mg/Kg		1	12/13/2011 06:01 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			<b>Analyst: RPM</b>
Electrical Conductivity @ saturation	2.52		0.0100 mmhos/cm @2		1	12/15/2011 05:00 PM
Electrical Conductivity, 1:1 aqueous	1.40		0.0100 mmhos/cm @2		1	12/15/2011 05:00 PM
Saturation % as decimal	0.556		mmhos/cm @2		1	12/15/2011 05:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			<b>Analyst: TDW</b>
Saturation Point	0.556		0.100 % Saturation		1	12/15/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental****Date:** 16-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** BG03  
**Collection Date:** 12/7/2011 11:27 AM

**Work Order:** 1112295  
**Lab ID:** 1112295-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	2.23		0.452 mg/Kg		1	12/13/2011 06:08 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			<b>Analyst: RPM</b>
Electrical Conductivity @ saturation	1.96		0.0100 mmhos/cm @2		1	12/15/2011 05:00 PM
Electrical Conductivity, 1:1 aqueous	1.07		0.0100 mmhos/cm @2		1	12/15/2011 05:00 PM
Saturation % as decimal	0.546		mmhos/cm @2		1	12/15/2011 05:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			<b>Analyst: TDW</b>
Saturation Point	0.546		0.100 % Saturation		1	12/15/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental****Date:** 16-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** BG04  
**Collection Date:** 12/7/2011 11:52 AM

**Work Order:** 1112295  
**Lab ID:** 1112295-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b> Arsenic	2.04		<b>SW6020</b> 0.468	mg/Kg	Prep Date: 12/12/2011 1	Analyst: IGF 12/13/2011 06:14 AM

---

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

## ALS Environmental

Date: 16-Dec-11

Client: LT Environmental

Work Order: 1112295

Project: Daley 1 - 027311044

**QC BATCH REPORT**

Batch ID: <b>57539</b>		Instrument ID <b>ICPMS04</b>		Method: <b>SW6020</b>						
<b>MBLK</b>		Sample ID: <b>MBLKS4-121211-57539</b>		Units: <b>mg/Kg</b>			Analysis Date: <b>12/13/2011 03:59 AM</b>			
Client ID:		Run ID: <b>ICPMS04_111212A</b>		SeqNo: <b>2625335</b>		Prep Date: <b>12/12/2011</b>		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		ND		0.50						
<b>LCS</b>		Sample ID: <b>MLCSS4-121211-57539</b>		Units: <b>mg/Kg</b>			Analysis Date: <b>12/13/2011 04:05 AM</b>			
Client ID:		Run ID: <b>ICPMS04_111212A</b>		SeqNo: <b>2625336</b>		Prep Date: <b>12/12/2011</b>		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		10.11	0.50	10	0	101	80-120		0	
<b>MS</b>		Sample ID: <b>1112310-41AMS</b>		Units: <b>mg/Kg</b>			Analysis Date: <b>12/13/2011 08:22 AM</b>			
Client ID:		Run ID: <b>ICPMS04_111212A</b>		SeqNo: <b>2625375</b>		Prep Date: <b>12/12/2011</b>		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		12.23	0.44	8.903	2.827	106	75-125		0	
<b>MSD</b>		Sample ID: <b>1112310-41AMSD</b>		Units: <b>mg/Kg</b>			Analysis Date: <b>12/13/2011 08:29 AM</b>			
Client ID:		Run ID: <b>ICPMS04_111212A</b>		SeqNo: <b>2625376</b>		Prep Date: <b>12/12/2011</b>		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		10.9	0.44	8.789	2.827	91.8	75-125	12.23	11.5	25
<b>DUP</b>		Sample ID: <b>1112310-41ADUP</b>		Units: <b>mg/Kg</b>			Analysis Date: <b>12/13/2011 08:16 AM</b>			
Client ID:		Run ID: <b>ICPMS04_111212A</b>		SeqNo: <b>2625374</b>		Prep Date: <b>12/12/2011</b>		DF: <b>1</b>		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		2.705	0.45	0	0	0	0-0	2.827	4.41	25

The following samples were analyzed in this batch:

1112295-01A	1112295-02A	1112295-03A
1112295-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC Page: 1 of 3

**Client:** LT Environmental  
**Work Order:** 1112295  
**Project:** Daley 1 - 027311044

## QC BATCH REPORT

Batch ID: **R120654**      Instrument ID **Balance1**      Method: **LaDNR-29B SP**

DUP      Sample ID: <b>1112338-21CDUP</b>				Units: % Saturation			Analysis Date: <b>12/15/2011 04:00 PM</b>			
Client ID:		Run ID: <b>BALANCE1_111215C</b>		SeqNo: <b>2629756</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.622	0.10	0	0	0		0.623	0.161	30	
DUP      Sample ID: <b>1112297-02BDUP</b>				Units: % Saturation			Analysis Date: <b>12/15/2011 04:00 PM</b>			
Client ID:		Run ID: <b>BALANCE1_111215C</b>		SeqNo: <b>2629757</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.374	0.10	0	0	0		0.407	8.45	30	

The following samples were analyzed in this batch:

1112295-02A      1112295-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1112295  
**Project:** Daley 1 - 027311044

## QC BATCH REPORT

Batch ID: **R120658**      Instrument ID **WetChem**      Method: **LaDNR-29B EC**

MBLK      Sample ID: <b>WBLKW1-121511-R120658</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>12/15/2011 05:00 PM</b>					
Client ID:      Run ID: <b>WETCHEM_111215E</b>				SeqNo: <b>2629854</b>	Prep Date:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity @ saturation	ND	0.010									
Electrical Conductivity, 1:1 aqueous	ND	0.010									
Saturation % as decimal	ND	0									
LCS      Sample ID: <b>WLCSW1-121511-R120658</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>12/15/2011 05:00 PM</b>					
Client ID:      Run ID: <b>WETCHEM_111215E</b>				SeqNo: <b>2629855</b>	Prep Date:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity, 1:1 aqueous	1.42	0.010	1.412	0	101	90-110	0	0	0		
DUP      Sample ID: <b>1112338-21CDUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>12/15/2011 05:00 PM</b>					
Client ID:      Run ID: <b>WETCHEM_111215E</b>				SeqNo: <b>2629826</b>	Prep Date:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity @ saturation	5.691	0.010	0	0	0	5.923	4	20			
Electrical Conductivity, 1:1 aqueous	3.54	0.010	0	0	0	3.69	4.15	20			
Saturation % as decimal	0.622	0	0	0	0	0.623	0.161				
DUP      Sample ID: <b>1112297-02BDUP</b>				Units: <b>mmhos/cm @25°</b>		Analysis Date: <b>12/15/2011 05:00 PM</b>					
Client ID:      Run ID: <b>WETCHEM_111215E</b>				SeqNo: <b>2629827</b>	Prep Date:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity @ saturation	2.347	0.010	0	0	0	2.15	8.76	20			
Electrical Conductivity, 1:1 aqueous	0.878	0.010	0	0	0	0.876	0.228	20			
Saturation % as decimal	0.374	0	0	0	0	0.407	8.45				

The following samples were analyzed in this batch:

1112295-02A      1112295-03A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**WorkOrder:** 1112295

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**Units Reported**    **Description**

% Saturation

mg/Kg      Milligrams per Kilogram

µhos/cm @25°



10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

# Chain of Custody Form

Page 1 of 1

# 1112295

LT ENVIRONMENTAL: LT Environmental

Project: Daley 1 - 027311044



## ALS Project Manager:

### Customer Information

### Project Information

Purchase Order	Project Name	Daley 1	A	Total Arsenic 6020													
Work Order	Project Number	027311044	B	EC													
Company Name	Bill To Company		C														
Send Report To	Invoice Attn		D														
Address	Address		E														
City/State/Zip	City/State/Zip		F														
Phone	Phone		G														
Fax	Fax		H														
e-Mail Address	e-Mail Address		I														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	BG01	12-7-11	1136	Soil	none	1	X										
2	BG02		1143			1	X	X									
3	BG03		1127			1	X	X									
4	BG04		1152			1	X										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Jacob Janicek</i>			Shipment Method <i>Fedex</i>	Required Turnaround Time: (Check Box)			Results Due Date:									
				<input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> Other <b>STAT TO: LTE per Bruce Schletter</b>												
Relinquished by: <i>J. Janicek</i>			Date: 12-8-11 12-7-11	Time: 1450 1715	Received by: <i>R. Wintner</i>	Notes:										
Relinquished by: <i>J. Janicek</i>			Date: 12-8-11 12-7-11	Time: 1450 1715	Received by (Laboratory): <i>R. Wintner</i>				Cooler ID	Cooler Temp	QC Package: (Check One Box Below)					
Logged by (Laboratory):			Date:	Time:	Checked by (Laboratory): <i>R. Wintner</i>						<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist				
											<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV				
											<input type="checkbox"/> Level IV SW846/CLP					
											<input type="checkbox"/> Other					

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2008 by ALS Laboratory Group.

# ALS Environmental

## Sample Receipt Checklist

Client Name: LT ENVIRONMENTAL

Date/Time Received: 09-Dec-11 07:45

Work Order: 1112295

Received by: RNG

Checklist completed by <i>Nicole Brown</i> eSignature	09-Dec-11 Date	Reviewed by: <i>Nicole Brown</i> eSignature	09-Dec-11 Date
---	-------------------	---	-------------------

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

2.9 C      002

Cooler(s)/Kit(s):

7112

Water - VOA vials have zero headspace?

Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt?

Yes  No  N/A

pH adjusted?

Yes  No  N/A

pH adjusted by:

-

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

**FEDEX**® NEW Package  
US Airbill

FedEx  
Tracking  
Number

8769 1786 1526

om  
te 12-8-11

nder's  
me Jake Jankels

Phone 770-4544

mpany AT Environmental

ress 820 Nelson Ave. B

Dept/Floor/Suite/Room

State GA

ZIP 30330

our Internal Billing Reference

cipient's  
me Sample Receiving

Phone

mpany ATES Environmental Services

ress 10450 Ranch Rd #210

Dept/Floor/Suite/Room

cannot deliver to P.O. boxes or P.O. ZIP codes.

this line for the HOLD location address or for continuation of your shipping address.

Houston

State TX

ZIP 77097



8769 1786 1526

Date 12-8-11 ~~12-8-11~~ 1450

Signature: *Jessie*

0200

Recipients Copy

4 Express Package Service \*To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.  
For packages over 150 lbs., use the now  
FedEx Express Freight US Airbill.

Next Business Day

FedEx First Overnight  
Earlier next business morning delivery to select  
locations. Friday shipments will be delivered on  
Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight  
Next business morning.\* Friday shipments will be  
delivered on Monday unless SATURDAY Delivery  
is selected.

FedEx Standard Overnight  
Same business afternoon.  
Saturday Delivery NOT available.

2 or 3 Business Days

NEW FedEx 2Day A.M.  
Second business morning.  
Saturday Delivery NOT available.

FedEx 2Day  
Second business afternoon.\* Thursday shipments  
will be delivered on Monday unless SATURDAY  
Delivery is selected.

FedEx Express Saver  
Third business day.\*  
Saturday Delivery NOT available.

5 Packaging \* Declared value limit \$500.

FedEx Envelope\*

FedEx Pak\*

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery  
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required  
Package may be left without  
obtaining a signature for delivery.

Direct Signature  
Someone at recipient's address  
may sign for delivery. Fee applies.

Indirect Signature  
If no one is available at recipient's  
address, someone at a neighboring  
address may sign for delivery. For  
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

No  Yes  
As per attached  Shipper's Declaration.  not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging  
or placed in a FedEx Express Drop Box.

Dry Ice  
Dry ice, UN 1045 \_\_\_\_\_ kg  
 Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip.  
Acct. No.

Sender:

Acct. No. in Section  
I will be billed.

Recipient

Third Party

Credit Card

Cash/Check

Total Packages Total Weight Total Declared Value! Credit Card Auth.  
1 1450 lbs. \$ 0.00

\*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Rev. Date 11/10 • Part #16316 • ©1994-2010 FedEx • PRINTED IN U.S.A. SRY

612

CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY

601 San Leandro St. Oakland, CA 800-233-8425

Bill  
12/9/11



30-Dec-2011

Brian Dodek  
LT Environmental  
4600 West 60th Avenue  
Arvada, CO 80003

Tel: (303) 962-5535  
Fax: (303) 433-1432

Re: Daley 1 - 027311044

Work Order: **1112751**

Dear Brian,

ALS Environmental received 12 samples on 23-Dec-2011 07:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Nicole Brown".

Electronically approved by: Mary K. Knowles

Nicole Brown  
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Work Order:** 1112751

**Work Order Sample Summary**

<b>Lab Samp ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>	<b>Hold</b>
1112751-01	SS01 @ 18"	Soil		12/22/2011 08:55	12/23/2011 07:40	<input type="checkbox"/>
1112751-02	SS01 @ 24"	Soil		12/22/2011 09:09	12/23/2011 07:40	<input type="checkbox"/>
1112751-03	SS01 @ 30"	Soil		12/22/2011 09:19	12/23/2011 07:40	<input type="checkbox"/>
1112751-04	SS03 @ 12"	Soil		12/22/2011 09:50	12/23/2011 07:40	<input type="checkbox"/>
1112751-05	SS03 @ 18"	Soil		12/22/2011 10:01	12/23/2011 07:40	<input type="checkbox"/>
1112751-06	SS03 @ 24"	Soil		12/22/2011 10:13	12/23/2011 07:40	<input type="checkbox"/>
1112751-07	SS05 @ 12"	Soil		12/22/2011 10:40	12/23/2011 07:40	<input type="checkbox"/>
1112751-08	SS05 @ 18"	Soil		12/22/2011 10:52	12/23/2011 07:40	<input type="checkbox"/>
1112751-09	SS05 @ 24"	Soil		12/22/2011 11:04	12/23/2011 07:40	<input type="checkbox"/>
1112751-10	SS06 @ 12"	Soil		12/22/2011 11:36	12/23/2011 07:40	<input type="checkbox"/>
1112751-11	SS06 @ 18"	Soil		12/22/2011 11:47	12/23/2011 07:40	<input type="checkbox"/>
1112751-12	SS06 @ 24"	Soil		12/22/2011 11:59	12/23/2011 07:40	<input type="checkbox"/>

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Work Order:** 1112751

**Case Narrative**

---

Batch 57842, Metals: Arsenic, Sample 1112779-04CDUP: The duplicate is for an unrelated sample.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS01 @ 18"  
**Collection Date:** 12/22/2011 08:55 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>						
Arsenic	2.09		0.490	mg/Kg	1	12/30/2011 03:20 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	3.22		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	1.77		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.550			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.550		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>						
pH	8.13		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS01 @ 24"  
**Collection Date:** 12/22/2011 09:09 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-02  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.71		0.476 mg/Kg		1	12/30/2011 03:26 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	1.65		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	1.01		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Saturation % as decimal	0.612		mmhos/cm @25	1		12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.612		0.100 % Saturation	1		12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	8.24		0.100 pH Units	1		12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS01 @ 30"  
**Collection Date:** 12/22/2011 09:19 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-03  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.61		0.431	mg/Kg	1	12/30/2011 03:32 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	2.86		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	1.24		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.434			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.434		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	8.23		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS03 @ 12"  
**Collection Date:** 12/22/2011 09:50 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-04  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	2.48		0.459 mg/Kg		1	12/30/2011 03:38 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	6.51		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	3.59		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Saturation % as decimal	0.551		mmhos/cm @25	1		12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.551		0.100 % Saturation	1		12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.20		0.100 pH Units	1		12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS03 @ 18"  
**Collection Date:** 12/22/2011 10:01 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-05  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.69		0.440 mg/Kg		1	12/30/2011 03:45 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	4.17		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	2.42		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Saturation % as decimal	0.581		mmhos/cm @25	1		12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.581		0.100 % Saturation	1		12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	7.04		0.100 pH Units	1		12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS03 @ 24"  
**Collection Date:** 12/22/2011 10:13 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-06  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.93		0.489	mg/Kg	1	12/30/2011 03:51 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	4.26		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	2.49		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.584			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.584		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	8.21		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS05 @ 12"  
**Collection Date:** 12/22/2011 10:40 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-07  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>						
Arsenic	1.95		0.442	mg/Kg	1	12/30/2011 04:16 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	1.91		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	1.14		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.597			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.597		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>						
pH	8.39		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS05 @ 18"  
**Collection Date:** 12/22/2011 10:52 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-08  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>						
Arsenic	1.68		0.474	mg/Kg	1	12/30/2011 04:22 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	1.17		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	0.679		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.580			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.580		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>						
pH	8.33		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS05 @ 24"  
**Collection Date:** 12/22/2011 11:04 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-09  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>						
Arsenic	1.72		0.448	mg/Kg	1	12/30/2011 04:29 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	0.766		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	0.428		0.0100	mmhos/cm @25	1	12/30/2011 04:00 PM
Saturation % as decimal	0.559			mmhos/cm @25	1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.559		0.100	% Saturation	1	12/30/2011 04:00 PM
<b>PH</b>						
pH	8.46		0.100	pH Units	1	12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS06 @ 12"  
**Collection Date:** 12/22/2011 11:36 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-10  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>						
Arsenic	1.96		SW6020 0.451 mg/Kg		1	Prep Date: 12/28/2011 Analyst: ALR 12/30/2011 04:35 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	1.46		LADNR-29B EC 0.0100 mmhos/cm @25		1	Analyst: TDW 12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	0.888		0.0100 mmhos/cm @25		1	12/30/2011 04:00 PM
Saturation % as decimal	0.610		mmhos/cm @25		1	12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.610		LADNR-29B SP 0.100 % Saturation		1	Analyst: TDW 12/30/2011 04:00 PM
<b>PH</b>						
pH	7.60		SW9045B 0.100 pH Units		1	Analyst: TDW 12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS06 @ 18"  
**Collection Date:** 12/22/2011 11:47 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-11  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.47		0.436 mg/Kg		1	12/30/2011 01:48 PM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	1.10		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	0.673		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Saturation % as decimal	0.611		mmhos/cm @25	1		12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.611		0.100 % Saturation	1		12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	8.11		0.100 pH Units	1		12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 30-Dec-11

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**Sample ID:** SS06 @ 24"  
**Collection Date:** 12/22/2011 11:59 AM

**Work Order:** 1112751  
**Lab ID:** 1112751-12  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>METALS</b>			<b>SW6020</b>			
Arsenic	1.70		0.452 mg/Kg		1	12/30/2011 04:47 AM
<b>LA29B ELECTRICAL CONDUCTIVITY</b>			<b>LADNR-29B EC</b>			Analyst: TDW
Electrical Conductivity @ saturation	1.03		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Electrical Conductivity, 1:1 aqueous	0.545		0.0100 mmhos/cm @25	1		12/30/2011 04:00 PM
Saturation % as decimal	0.530		mmhos/cm @25	1		12/30/2011 04:00 PM
<b>LA29B SATURATION POINT</b>			<b>LADNR-29B SP</b>			Analyst: TDW
Saturation Point	0.530		0.100 % Saturation	1		12/30/2011 04:00 PM
<b>PH</b>			<b>SW9045B</b>			Analyst: TDW
pH	8.25		0.100 pH Units	1		12/29/2011 04:00 PM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

## ALS Environmental

Date: 30-Dec-11

Client: LT Environmental

Work Order: 1112751

Project: Daley 1 - 027311044

**QC BATCH REPORT**

Batch ID: <b>57842</b>		Instrument ID <b>ICPMS03</b>		Method: <b>SW6020</b>						
<b>MBLK</b>		Sample ID: <b>MBLKS1-122811-57842</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/28/2011 04:01 PM</b>		
Client ID:		Run ID: <b>ICPMS03_111227A</b>			SeqNo: <b>2640564</b>		Prep Date: <b>12/28/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.50								
<b>LCS</b>	Sample ID: <b>MLCSS1-122811-57842</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/28/2011 04:07 PM</b>			
Client ID:		Run ID: <b>ICPMS03_111227A</b>			SeqNo: <b>2640565</b>		Prep Date: <b>12/28/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.126	0.50	10	0	91.3	80-120		0		
<b>MS</b>	Sample ID: <b>1112779-04CMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/28/2011 05:36 PM</b>			
Client ID:		Run ID: <b>ICPMS03_111227A</b>			SeqNo: <b>2640675</b>		Prep Date: <b>12/28/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.194	0.45	8.961	0.7274	94.5	75-125		0		
<b>MSD</b>	Sample ID: <b>1112779-04CMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/28/2011 05:42 PM</b>			
Client ID:		Run ID: <b>ICPMS03_111227A</b>			SeqNo: <b>2640676</b>		Prep Date: <b>12/28/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.013	0.44	8.862	0.7274	93.5	75-125	9.194	1.99	25	
<b>DUP</b>	Sample ID: <b>1112779-04CDUP</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>12/28/2011 05:23 PM</b>			
Client ID:		Run ID: <b>ICPMS03_111227A</b>			SeqNo: <b>2640663</b>		Prep Date: <b>12/28/2011</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.079	0.45	0	0	0	0-0	0.7274	39	25	R

The following samples were analyzed in this batch:

1112751-01A	1112751-02A	1112751-03A
1112751-04A	1112751-05A	1112751-06A
1112751-07A	1112751-08A	1112751-09A
1112751-10A	1112751-11A	1112751-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1112751  
**Project:** Daley 1 - 027311044

## QC BATCH REPORT

Batch ID: **R121163**      Instrument ID **WetChem**      Method: **SW9045B**

LCS      Sample ID: <b>WL.CSS1-122911-R121163</b>				Units: <b>pH Units</b>			Analysis Date: <b>12/29/2011 04:00 PM</b>			
Client ID:		Run ID: <b>WETCHEM_111229G</b>		SeqNo: <b>2641827</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6	0.10	6	0	100	90-110		0		
DUP      Sample ID: <b>1112751-01ADUP</b>	Units: <b>pH Units</b>				Analysis Date: <b>12/29/2011 04:00 PM</b>					
Client ID: <b>SS01 @ 18"</b>	Run ID: <b>WETCHEM_111229G</b>		SeqNo: <b>2641845</b>		Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.09	0.10	0	0	0	0-0	8.13	0.493	20	

The following samples were analyzed in this batch:

1112751-01A	1112751-02A	1112751-03A
1112751-04A	1112751-05A	1112751-06A
1112751-07A	1112751-08A	1112751-09A
1112751-10A	1112751-11A	1112751-12A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1112751  
**Project:** Daley 1 - 027311044

## QC BATCH REPORT

Batch ID: **R121224**      Instrument ID **Balance1**      Method: **LaDNR-29B SP**

DUP	Sample ID: <b>1112751-01ADUP</b>		Units: % Saturation			Analysis Date: <b>12/30/2011 04:00 PM</b>				
Client ID:	<b>SS01 @ 18"</b>		Run ID: <b>BALANCE1_111230C</b>		SeqNo:	<b>2643436</b>	Prep Date:	DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.537	0.10	0	0	0		0.55	2.39	30	

**The following samples were analyzed in this batch:**

1112751-01A	1112751-02A	1112751-03A
1112751-04A	1112751-05A	1112751-06A
1112751-07A	1112751-08A	1112751-09A
1112751-10A	1112751-11A	1112751-12A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1112751  
**Project:** Daley 1 - 027311044

## QC BATCH REPORT

Batch ID: **R121225**      Instrument ID **WetChem**      Method: **LaDNR-29B EC**

MBLK      Sample ID: <b>WBLKW1-123011-R121225</b>				Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>12/30/2011 04:00 PM</b>					
Client ID: <b>WETCHEM_111230H</b>				SeqNo: <b>2643437</b>	Prep Date:		DF: <b>1</b>				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity @ saturation	ND	0.010									
Electrical Conductivity, 1:1 aqueous	ND	0.010									
Saturation % as decimal	ND	0									
LCS      Sample ID: <b>WLCSW1-123011-R121225</b>					Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>12/30/2011 04:00 PM</b>				
Client ID:	Run ID: <b>WETCHEM_111230H</b>				SeqNo: <b>2643438</b>	Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity, 1:1 aqueous	1.42	0.010	1.412	0	101	90-110	0				
DUP      Sample ID: <b>1112751-01ADUP</b>					Units: <b>mmhos/cm @25°C</b>		Analysis Date: <b>12/30/2011 04:00 PM</b>				
Client ID: <b>SS01 @ 18"</b>	Run ID: <b>WETCHEM_111230H</b>				SeqNo: <b>2643457</b>	Prep Date:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Electrical Conductivity @ saturation	3.392	0.010	0	0	0		3.217	5.3	20		
Electrical Conductivity, 1:1 aqueous	1.82	0.010	0	0	0		1.77	2.79	20		
Saturation % as decimal	0.537	0	0	0	0		0.55	2.39			

The following samples were analyzed in this batch:

1112751-01A	1112751-02A	1112751-03A
1112751-04A	1112751-05A	1112751-06A
1112751-07A	1112751-08A	1112751-09A
1112751-10A	1112751-11A	1112751-12A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Project:** Daley 1 - 027311044  
**WorkOrder:** 1112751

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**Units Reported**    **Description**

% Saturation  
mg/Kg      Milligrams per Kilogram  
mhos/cm @25°  
pH Units



**ALS Laboratory Group**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

**Chain of Custody Form**

Page 1 of 4

**1112751**

LT ENVIRONMENTAL: LT Environmental

Project: Daley 1



**ALS Project Manager:**

**Customer Information**

**Project Information**

Purchase Order	Project Name	Daley 1	A	Total Arsenic (600)
Work Order	Project Number	0L7311044	B	EC
Company Name	Bill To Company	LT Environmental	C	
Send Report To	Invoice Attn	Brian Dodek	D	
Address	Address	4600 W 60 <sup>th</sup> Ave	E	
City/State/Zip	City/State/Zip	Arvada CO 80003	F	
Phone	Phone	303-433-9788	G	
Fax	Fax		H	
e-Mail Address	e-Mail Address	bododek@ltenv.com	I	
J				

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SS01 @ 18"	12-22-11	0855	soil	None	1	X	X									
2	SS01 @ 24"		0909				X	X									
3	SS01 @ 30"		0919				X	X									
4	SS03 @ 12"		0950				X	X									
5	SS03 @ 18"		1001				X	X									
6	SS03 @ 24"		1013				X	X									
7	SS05 @ 12"		1040				X	X									
8	SS05 @ 18"		1052				X	X									
9	SS05 @ 24"		1104				X	X									
10	SS06 @ 12"		1136				X	X									

Sampler(s) Please Print & Sign: <i>Jacob Janicek</i>	Shipment Method: <i>Fedex</i>	Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> Other <i>Std TAT for LITE per Bruce Schlatter</i>	Results Due Date:
---	----------------------------------	---	-------------------

Relinquished by: <i>Jacob Janicek</i>	Date: 12-22-11	Time: 1400	Received by: <i>J</i>	Notes:		
Relinquished by: —	Date:	Time:	Received by (Laboratory): <i>J</i> 12-23-11 0940	Cooler ID	Cooler Temp	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): <i>J</i>			<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist
						<input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV SW846/CLP
						<input type="checkbox"/> Other

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C 9-5035

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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 **ALS Environmental**

10450 Stancliff Rd., Suite 210  
Houston, Texas 77099  
Tel. +1 281 530 5656  
Fax. +1 281 530 5887

**Chain of Custody Form**Page 2 of 2COC ID: 30515 **ALS Environmental**

3352 128th Ave.  
Holland, MI 49424-9263  
Tel: +1 616 399 6070  
Fax: +1 616 399 6185

Customer Information		Project Information				Parameter/Method Request for Analysis												
Purchase Order		Project Name	<del>CQ Table 910 Parameters</del> Daley /			A	BTEX (8260)											
Work Order		Project Number	027311044			B	TPH GRO (8015M)											
Company Name	LT Environmental	Bill To Company	LT Environmental			C	TPH DRO (8015M)											
Send Report To	<del>Rob Fishburn Brian Dodek</del>	Invoice Attn	<del>Rob Fishburn Brian Dodek</del>			D	TPH ORO (8015M)											
Address	<del>820 Megan Ave. Unit B</del> <del>4600 W 60th Ave</del>	Address	<del>820 Megan Ave. Unit B</del> <del>4600 W 60th Ave</del>			E	SVOC (8270) Select											
				F	Total Metals (6020/7000) Select													
City/State/Zip	<del>Rifle, CO 81650</del> Arvada CO 80003	City/State/Zip	<del>Rifle, CO 81650</del> Arvada CO 80003			G	pH											
Phone	(970) 285-9985 303-433-9788	Phone	(970) 285-9985 303-433-9788			H	<del>SAR</del> Arsenic (Total) 6020											
Fax		Fax				I	EC											
e-Mail Address	bdodek@ltenv.com	e-Mail Address	bdodek@ltenv.com			J	Hexavalent Chromium											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	55 06 @ 12" 18"	12-22-11	1147	Soil	none	1								X	X			
2	55 06 @ 24"	↓	1159	↓	↓	↓								X	X			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
Sampler(s) Please Print & Sign <u>Jacob Janicek</u>				Shipment Method <u>Fedex</u>		Required Turnaround Time: (Check Box)					Results Due Date:							
						<input checked="" type="checkbox"/> Std 10 WK Days	<input checked="" type="checkbox"/> 5 WK Days	<input type="checkbox"/> 2 WK Days	<input type="checkbox"/> Other _____	<input type="checkbox"/> 24 Hour								
Relinquished by: <u>J Jacob Janicek</u>		Date: 12-22-11	Time: 1400	Received by: <u>J</u>			Notes: 10 Days TAT											
Relinquished by: <u>J Jacob Janicek</u>		Date:	Time:	Received by (Laboratory): <u>J</u> 12-23-11 6746			Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):					<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EOD									
Preservative Key: 1-HCl 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 6-NaHSO <sub>4</sub> 7-Other 8-4°C 9-5035																		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

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→ Std TAT for LTE per Bruce Schlatter

# ALS Environmental

## Sample Receipt Checklist

Client Name: LT ENVIRONMENTAL

Date/Time Received: 23-Dec-11 07:40

Work Order: 1112751

Received by: PMG

Checklist completed by Raymond N Gamboa  
eSignature

27-Dec-11

Date

Reviewed by: Nicole Brown  
eSignature

27-Dec-11

Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

3.9c      002

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt?

Yes  No  N/A

pH adjusted?

Yes  No  N/A

pH adjusted by:

-

Login Notes: Sample "SS03 24"" was received broken; transferred into an 8 ounce jar. Sample integrity was not compromised. NB 12/2011

-----  
Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

W.O# 1112751



Date: 12-22-11

Signature:

**CUSTODY SEAL**

1400  
Janicek 12.23.11

\*\* This portion can be removed for recipient's records.  
to 12-22-11 FedEx Tracking Number 898941675467  
Under's Name Jake Janicek Phone 970 478-2814  
Company LT Environmental  
Address 820 Megan Ave Unit E Dept/Floor/Suite/Room  
City Rifle State CO ZIP 81650  
Our Internal Billing Reference 027311044



18-Jul-2012

Brian Dodek  
LT Environmental  
4600 West 60th Avenue  
Arvada, CO 80003

Tel: (303) 962-5535  
Fax: (303) 433-1432

Re: 027311044

Work Order: **1207150**

Dear Brian,

ALS Environmental received 1 sample on 05-Jul-2012 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Patricia L. Lynch".

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch  
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

**Client:** LT Environmental  
**Project:** 027311044  
**Work Order:** **1207150**

**Work Order Sample Summary**

<b>Lab Samp ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>	<b>Hold</b>
1207150-01	SS03@24"	Soil		6/29/2012 16:00	7/5/2012 09:00	<input type="checkbox"/>

---

**Client:** LT Environmental  
**Project:** 027311044  
**Work Order:** 1207150

---

**Case Narrative**

No Exceptions

**ALS Environmental****Date:** 18-Jul-12

**Client:** LT Environmental  
**Project:** 027311044  
**Sample ID:** SS03@24"  
**Collection Date:** 6/29/2012 04:00 PM

**Work Order:** 1207150  
**Lab ID:** 1207150-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>LA29B ELECTRICAL CONDUCTIVITY</b>						
Electrical Conductivity @ saturation	4.13		0.0100	mmhos/cm @25	1	Analyst: <b>RPM</b> 7/17/2012 12:00 PM
Electrical Conductivity, 1:1 aqueous	1.90		0.0100	mmhos/cm @25	1	7/17/2012 12:00 PM
<b>LA29B SATURATION POINT</b>						
Saturation Point	0.460		0.100	% Saturation as	1	Analyst: <b>RPM</b> 7/17/2012 10:00 AM

**Note:** See Qualifiers Page for a list of qualifiers and their explanation.

**Client:** LT Environmental  
**Work Order:** 1207150  
**Project:** 027311044

**QC BATCH REPORT**

Batch ID: R131374		Instrument ID Balance1		Method: LaDNR-29B SP		(Dissolve)				
DUP	Sample ID: 1207150-01ADUP			Units: % Saturation as D			Analysis Date: 7/17/2012 10:00 AM			
Client ID: SS03@24"		Run ID: BALANCE1_120717A			SeqNo: 2862501		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.462	0.10	0	0.46	0		0.46	0.434	30	

The following samples were analyzed in this batch:

1207150-01A

**Client:** LT Environmental  
**Work Order:** 1207150  
**Project:** 027311044

## QC BATCH REPORT

Batch ID: R131375		Instrument ID WetChem		Method: LaDNR-29B EC		(Dissolve)				
<b>MBLK</b>	Sample ID: WBLKW1-071712-R131375				Units: mmhos/cm @25°C		Analysis Date: 7/17/2012 12:00 PM			
Client ID:	Run ID: WETCHEM_120717E			SeqNo: 2862502	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	ND	0.010								
Electrical Conductivity, 1:1 aqueous	ND	0.010								
<b>LCS</b>	Sample ID: WLCSW1-071712-R131375				Units: mmhos/cm @25°C		Analysis Date: 7/17/2012 12:00 PM			
Client ID:	Run ID: WETCHEM_120717E			SeqNo: 2862503	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	1.43	0.010	1.412	0	101	90-110	0			
<b>DUP</b>	Sample ID: 1207150-01ADUP				Units: mmhos/cm @25°C		Analysis Date: 7/17/2012 12:00 PM			
Client ID: SS03@24"	Run ID: WETCHEM_120717E			SeqNo: 2862510	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	4.13	0.010	0	4.128	0		4.128	0.0484	20	
Electrical Conductivity, 1:1 aqueous	1.91	0.010	0	1.9	0		1.9	0.525	20	

The following samples were analyzed in this batch:

1207150-01A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental  
**Project:** 027311044  
**WorkOrder:** 1207150

**QUALIFIERS,  
ACRONYMS, UNITS**

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

**Units Reported**   **Description**

aturation as Dec  
mhos/cm @25°

# ALS Environmental

## Sample Receipt Checklist

Client Name: LT ENVIRONMENTAL

Date/Time Received: 05-Jul-12 09:00

Work Order: 1207150

Received by: RNG

Checklist completed by Robert D. Harris

eSignature

05-Jul-12

Date

Reviewed by: Patricia L. Lynch

eSignature

10-Jul-12

Date

Matrices: soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Temperature(s)/Thermometer(s):

12.9c c/u      003

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

7/5/12 18:40

Yes  No  No VOA vials submitted

Yes  No  N/A

Yes  No  N/A

Water - VOA vials have zero headspace?  
Water - pH acceptable upon receipt?  
pH adjusted?  
pH adjusted by:

Login Notes: Received out of temp.

-----  
Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

1207150

LT ENVIRONMENTAL: LT Environmental

Project: 027311044



## CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.



ALS Laboratorium Group

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), Sl (Sludge), SE (Sediment), OS (Other solid material)

**FedEx** NEW Package  
Express US Airbill

FedEx  
Tracking  
Number

8001 2142 2796

9m

Date 7/12/12

10e

11r's

name

12c

13p

14s

15a

16t

17r

18c

19s

20a

21t

22r

23c

24s

25a

26t

27r

28c

29s

30a

31t

32r

33c

34s

35a

36t

37r

38c

39s

40a

41t

42r

43c

44s

45a

46t

47r

48c

49s

50a

51t

52r

53c

54s

55a

56t

57r

58c

59s

60a

61t

62r

63c

64s

65a

66t

67r

68c

69s

70a

71t

72r

73c

74s

75a

76t

77r

78c

79s

80a

81t

82r

83c

84s

85a

86t

87r

88c

89s

90a

91t

92r

93c

94s

95a

96t

97r

98c

99s

100a

101t

102r

103c

104s

105a

106t

107r

108c

109s

110a

111t

112r

113c

114s

115a

116t

117r

118c

119s

120a

121t

122r

123c

124s

125a

126t

127r

128c

129s

130a

131t

132r

133c

134s

135a

136t

137r

138c

139s

140a

141t

142r

143c

144s

145a

146t

147r

148c

149s

150a

151t

152r

153c

154s

155a

156t

157r

158c

159s

160a

161t

162r

163c

164s

165a

166t

167r

168c

169s

170a

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175a

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