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October 29, 2012

Mr. Rick Allison  
Department Of Natural Resources  
Oil & Gas Conservation Commission  
1120 Lincoln St., Suite 801  
Denver CO 80203-2136

RE: Form 27 and Site Assessment Report  
Miller I South CaCl Release  
API 05-123-23064 (closest well to discharge Gemini B29-15)  
Facility#425661  
SENW Sec. 29, T5N R64W  
Weld County, Colorado

Dear Mr. Allison:

Please find attached a Form 27 and Site Assessment Report for the Miller I South CaCl release location.

Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (720)587-2026 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads 'Jacob Evans'.

Jacob Evans  
Senior Environmental Specialist

Attachments

FORM  
**27**  
Rev 6/99

State of Colorado  
**Oil and Gas Conservation Commission**



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

FOR OGCC USE ONLY  
**Received**  
**10/29/2012**  
OGCC Employee:  
 Spill  Complaint  
 Inspection  NOAV  
Tracking No: **2223090**

**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 Operator Number: 100322 Contact Name and Telephone: Jacob Evans  
Name of Operator: Noble Energy, Inc. No: 720-587-2026  
Address: 1625 Broadway, Suite 2200 Fax: 303-228-4286  
City: Denver State: CO Zip: 80232

API Number: Closest well to discharge area: 05-123-23064 County: Weld  
Facility Name: Miller South #1 Spread Field Facility Number: 425661  
Well Name: Gemini Well Number: B29-15 **40.372885** **-104.575792**  
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SENW Sec. 29 T5N R64W 6PM Latitude: 40.371997 Longitude: -104.579194

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Calcium-chloride-enriched water  
**Site Conditions:** Is location within a sensitive area (according to Rule 901e)?  Y  N If yes, attach evaluation.  
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Drilling mud spread field  
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Valent sand 0-3% slopes  
Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well 1,200 feet west, wetlands 50 feet north, and buildings 660 feet notheast.  
**Description of Impact** (if previously provided, refer to that form or document):  
Impacted Media (check):      Extent of Impact:      How Determined:  
 Soils      no soil impact      \_\_\_\_\_  
 Vegetation      \_\_\_\_\_      \_\_\_\_\_  
 Groundwater      5,000 square feet of chloride impacted groundwater      Site assessment  
 Surface Water      \_\_\_\_\_      \_\_\_\_\_

**REMEDIATION WORKPLAN**

**Describe initial action taken** (if previously provided, refer to that form or document):  
The containment pond in the northeast corner of the spreadfield was large enough to hold all of the water. A super sucker removed all of the water and transported it to a Conquest Water Disposal Well for proper disposal. See Form 19 (Document #2223090).  
**Describe how source is to be removed:**  
Due to the small size, stability of the areas with elevated chloride concentrations, and lack of potential receptors within one-quarter of a mile, remediation will occur via monitored natural attenuation (MNA).  
**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.:**  
Natural, physical, chemical, and biological degradation, which occur during MNA, require sufficient site conditions, which are available at this Site. The potential impact has been defined in every direction and presents no risk to public health or the environment.

FORM  
27  
Rev 6/99  
Page 2

State of Colorado  
Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
(303)894-2100 Fax:(303)894-2109



Tracking Number: 2223090  
Name of Operator: Noble Energy, Inc.  
OGCC Operator No: 100322  
Received Date: 10/29/2012  
Well Name & No: Gemini B29-15  
Facility Name & No: Miller South #1 Spread Field 425661

REMEDIATION WORKPLAN (Cont.)

Page 2

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):  
Groundwater monitoring wells were installed. All monitoring wells with chloride impact exceeding COGCC standards (SB04R, SB07R, SB08R, SB13, and SB33), one upgradient (SB18), and two downgradient (SB21 and SB23) monitoring wells of the observed impact are included in the monitoring plan. Semi-annual groundwater sampling will be conducted for one year, and groundwater samples will be analyzed for chloride.

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.  
Not applicable.

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:  
Groundwater sampling will continue for one year to ensure MNA is effective..

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):  
This will not be necessary with MNA.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 3/8/2012 Date Site Investigation Completed: TBD Date Remediation Plan Submitted: 10/26/12  
Remediation Start Date: 3/8/2012 Anticipated Completion Date: TBD Actual Completion Date: TBD

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

Print Name: Jacob Evans Signed: *Jacob Evans*  
Title: Senior Environmental Specialist Date: 10/29/12

OGCC Approved: *Richard Allison* Title: Location Specialist Date: 11/21/2012

See Attached Conditions of Approval Doc# 2614122



## ENVIRONMENTAL SITE ASSESSMENT OCTOBER 2012

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### MILLER SOUTH #1 SPREAD FIELD COGCC TRACKING #2223090

LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted an environmental assessment at the Miller South #1 Spread Field (Site). The purpose of the environmental assessment was to define the extent of impacted soil and groundwater following the release of calcium-chloride-enriched water into the liquid containment pond in the northeast corner of the spread field. This is the second site assessment conducted for the calcium chloride release. The first site assessment was conducted in March 2012 and is described in an earlier correspondence (*Environmental Site Assessment, March 2012*). The second assessment was conducted to include organic analysis and further define the Site conditions, at the request of the Colorado Oil and Gas Conservation Commission (COGCC).

LTE advanced a total of 24 soil borings on September 10 and 11, 2012. Soil borings (Background 01, Background 02, SB01R through SB08R, and SB10 through SB23) were installed using a direct-push drill rig operated by ACI Services of Denver, Colorado. A site map with soil boring locations is provided as Figure 1. Soil boring logs are provided as Attachment 1.

Twenty-four soil samples were collected from 3 feet to 5 feet below ground surface (bgs) on September 10 and 11, 2012, and then submitted to Summit Scientific (Summit) of Golden, Colorado, for analysis of total petroleum hydrocarbons (TPH)-diesel range organics (DRO) by Method 8015, TPH-gasoline range organics (GRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8260B, electrical conductivity (EC) by Standard Method 2510B, pH by EPA 9045B, and soil adsorption ratio (SAR) by EPA 6020/USDA60 6 (2, 3A) and calculation.

Twenty-four groundwater samples were collected on September 11 and 12, 2012, from the soil boring locations and then submitted to Summit for analysis of BTEX by EPA Method 8260B, chloride and sulfate by EPA Method 300.0, and total dissolved solids (TDS) with a laboratory TDS meter. During sampling depth to groundwater ranged from 4.24 feet below top of casing (btoc) in soil boring SB01R to 17.40 feet btoc in soil boring Background02. The groundwater flow direction is to the northeast and north with an average gradient of approximately 0.004 feet per foot (ft/ft). A relative groundwater elevation map is presented as Figure 2.

Soil analytical results, presented in Table 1, indicate all TPH-GRO, TPH-DRO, BTEX, EC, pH, and SAR concentrations are in compliance with COGCC Table 910-1 Concentration Levels. No hydrocarbons (TPH-GRO, TPH-DRO, or BTEX) were detected in the soil samples.

Groundwater analytical results are illustrated on Figures 2, 3, and 4 and presented in Table 2. Laboratory analytical reports are included as Attachment 2. No BTEX compounds were

detected in any groundwater samples collected, and all samples are in compliance with applicable standards for BTEX.

The COGCC Table 910-1 groundwater standards for chloride, sulfate, and TDS are based on 1.25 times the background concentration (Background01 and Background02). It is apparent from the analytical results that natural site variability exists for these constituents in the groundwater. As seen by the data collected at the Site, the natural variations of constituent concentrations fluctuate much more than 25%. It is likely that chloride, sulfate, and TDS, which occur naturally in groundwater and the subsurface, have large scale regional effects and subsequent variations due to the high levels of unregulated agricultural activities throughout the area. Other industrial, residential, and non oil and gas related activities also can affect inorganic groundwater impact. Due to the composition of the release (calcium-chloride-enriched water), chloride is the best indicator to determine the extent of impact. However, all waters contain varying concentrations of chloride depending on the mineral content of the earth and regional activities in a given area. In addition to naturally occurring chloride, chloride can occur in surface water as a result of several sources including road salting, agricultural runoff, and mineral accumulation due to water evaporation precipitating chloride and other constituents.

The relative surface water elevation in the pond, located adjacent to the northeast, is approximately seven feet above the adjacent groundwater elevation, indicating that any communication between the groundwater and the pond would cause transport of water and dissolved inorganic constituents from the pond into the groundwater and not vice versa. Since the chloride impacted groundwater distribution does not display typical concentration dispersion, as the highest concentrations of chloride reside for downgradient of the release location, the pond and site history involving agricultural activities are highly suspect as likely sources of elevated chloride concentrations in the groundwater. Due to the small size, stability of the areas with elevated chloride concentrations, and lack of potential receptors within one-quarter of a mile of the pond and monitoring wells, monitored natural attenuation (MNA) is a feasible remediation technology for the Site. Natural, physical, chemical, and biological degradation, which occur during MNA, require sufficient site conditions, which are available at this Site. The potential impact has been defined in every direction and presents no risk to public health or the environment.

## FIGURES

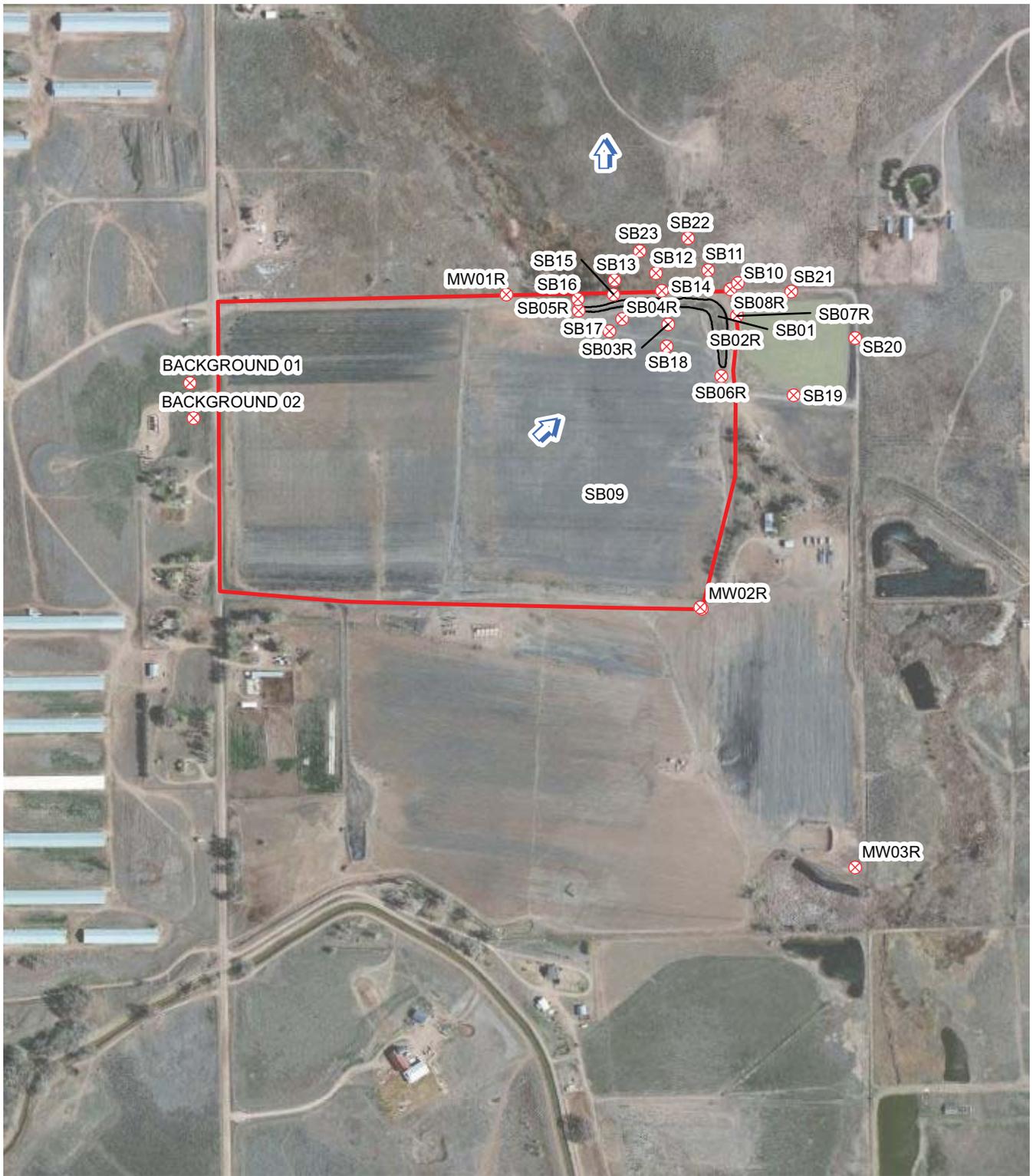
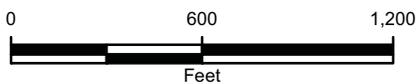


IMAGE COURTESY OF ESRI/BING MAPS

**LEGEND**

- ⊗ MONITORING WELL
- ↑ ESTIMATED GROUNDWATER FLOW DIRECTION
- SURFICIAL RELEASE EXTENT
- ▭ SPREAD FIELD BOUNDARY



**FIGURE 1**  
**SITE MAP**  
 MILLER SOUTH #1 SPREAD FIELD  
 WELD COUNTY, COLORADO



**NOBLE ENERGY, INC.**

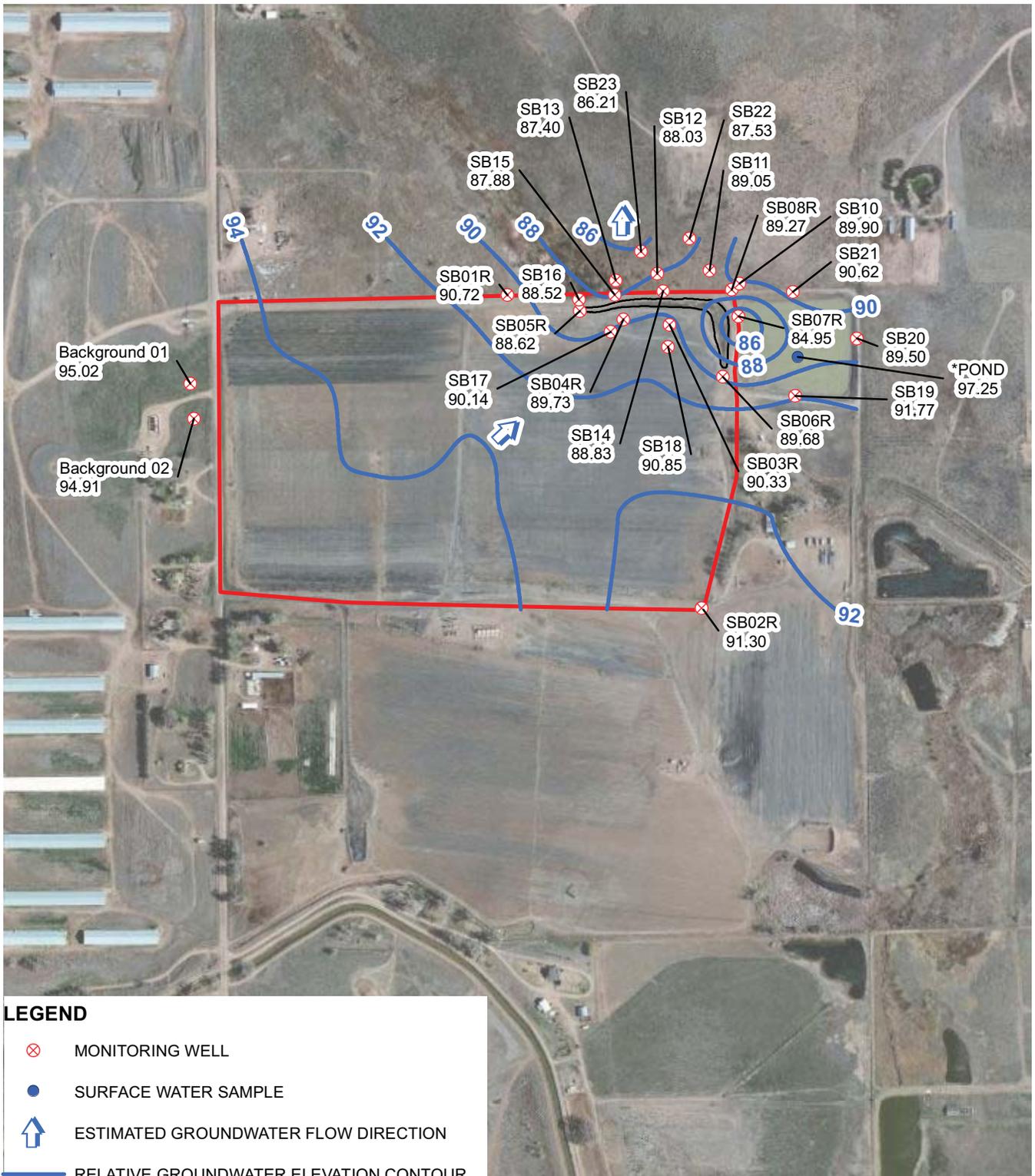
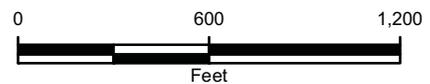


IMAGE COURTESY OF ESRI/BING MAPS

**LEGEND**

-  MONITORING WELL
-  SURFACE WATER SAMPLE
-  ESTIMATED GROUNDWATER FLOW DIRECTION
-  RELATIVE GROUNDWATER ELEVATION CONTOUR
- CONTOUR INTERVAL = 2 FEET
- GRADIENT = 0.004 FEET/FOOT
-  SURFICIAL RELEASE EXTENT
-  SPREAD FIELD BOUNDARY

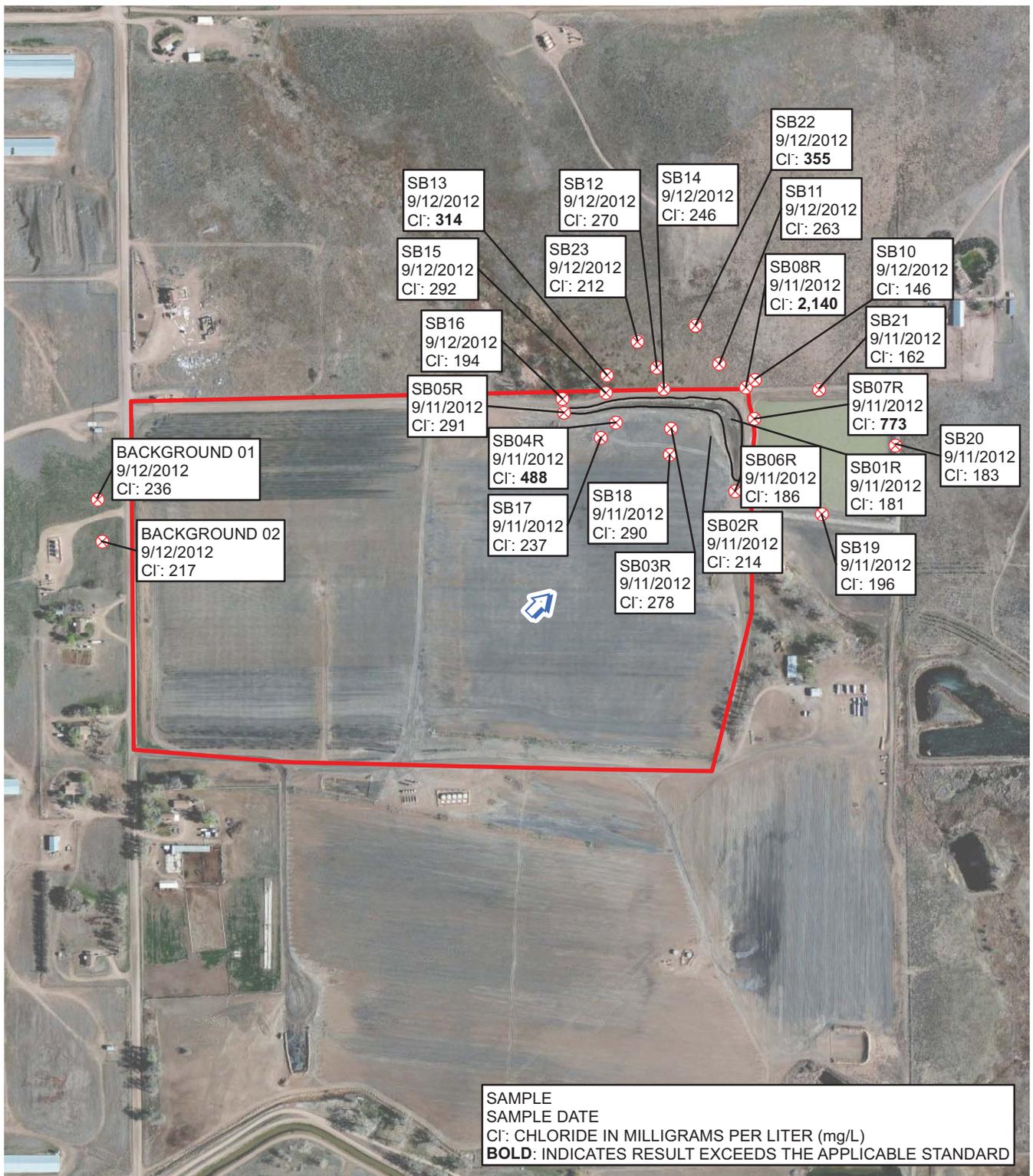
SURFACE WATER SAMPLE, \*POND 97.25 WAS NOT USED TO GENERATE CONTOURS.



**FIGURE 2**  
**GROUNDWATER ELEVATION MAP**  
**MILLER SOUTH #1 SPREAD FIELD**  
**WELD COUNTY, COLORADO**

**NOBLE ENERGY, INC.**



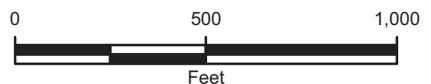


SAMPLE  
 SAMPLE DATE  
 CI: CHLORIDE IN MILLIGRAMS PER LITER (mg/L)  
**BOLD: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD**

IMAGE COURTESY OF BING MAPS/ESRI

**LEGEND**

-  MONITORING WELL
-  ESTIMATED GROUNDWATER FLOW DIRECTION
-  SURFICIAL RELEASE EXTENT
-  SPREAD FIELD BOUNDARY



**FIGURE 3**  
**CHLORIDE GROUNDWATER ANALYTICAL RESULTS**  
**MILLER SOUTH #1 SPREAD FIELD**  
**WELD COUNTY, COLORADO**

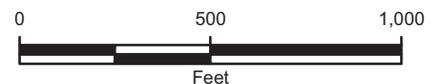
**NOBLE ENERGY, INC.**





**LEGEND**

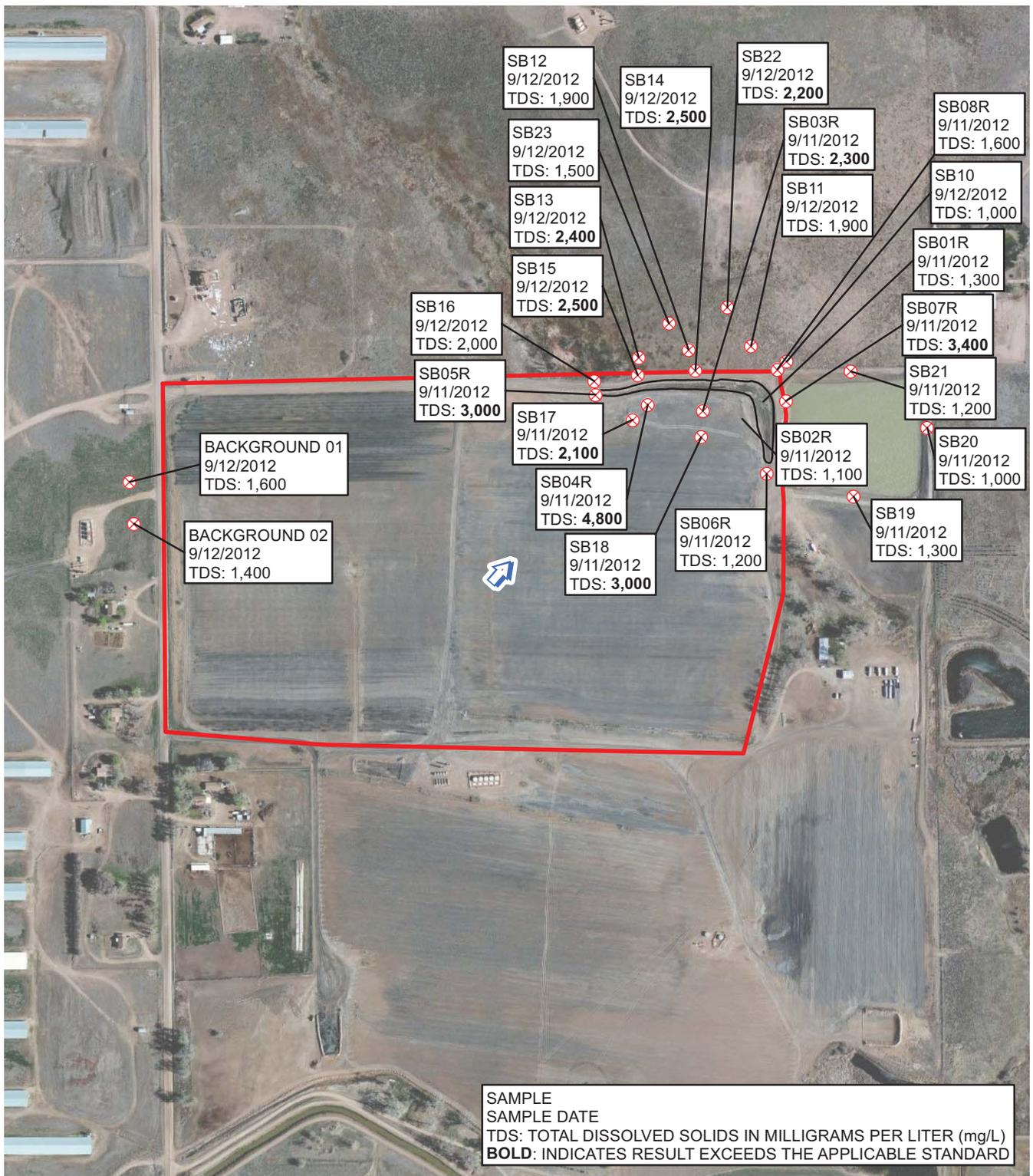
- MONITORING WELL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- SURFICIAL RELEASE EXTENT
- SPREAD FIELD BOUNDARY



**FIGURE 4**  
**SULFATE GROUNDWATER ANALYTICAL RESULTS**  
**MILLER SOUTH #1 SPREAD FIELD**  
**WELD COUNTY, COLORADO**

**NOBLE ENERGY, INC.**

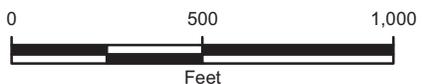




SAMPLE  
 SAMPLE DATE  
 TDS: TOTAL DISSOLVED SOLIDS IN MILLIGRAMS PER LITER (mg/L)  
**BOLD: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD**

**LEGEND**

- MONITORING WELL
- ESTIMATED GROUNDWATER FLOW DIRECTION
- SURFICIAL RELEASE EXTENT
- SPREAD FIELD BOUNDARY



**FIGURE 5**  
 TOTAL DISSOLVED SOLIDS  
 GROUNDWATER ANALYTICAL RESULTS  
 MILLER SOUTH #1 SPREAD FIELD  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.



## **TABLES**

TABLE 1

SOIL ANALYTICAL RESULTS  
MILLER SOUTH #1 SPREAD FIELD  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

Location	Standard	Units	Background 01	Background 02	SB01	SB01R	SB02	SB02R	SB03	SB03R	SB04	SB04R	SB05	SB05R
Depth (feet)			3-5	3-5	3-6	3-5	3-6	3-5	3-6	3-5	3-6	3-5	3-6	3-5
Sample Date			9/11/2012	9/11/2012	3/8/2012	9/10/2012	3/8/2012	9/10/2012	3/8/2012	9/10/2012	3/8/2012	9/10/2012	3/8/2012	9/10/2012
EC	4	mmhos/cm	0.0656	0.0368	1.49	0.220	0.912	0.336	0.761	0.522	0.563	0.440	1.97	2.36
pH	9	SU	7.6	7.8	8.0	8.4	8.2	7.6	8.1	7.1	8.2	8.1	7.9	8.8
SAR	12	ratio	0.300	0.290	2.10	3.64	4.66	1.72	4.27	3.09	1.71	3.46	5.91	10.1
TPH-DRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH-GRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH	500	mg/kg	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50
Benzene	0.17	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	85	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Xylenes	175	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NOTES:

- EC - electrical conductivity
- mg/kg - milligrams per kilogram
- mmhos/cm - millimhos per centimeter
- SAR - sodium adsorption ratio
- SU - standard unit
- TPH-DRO - total petroleum hydrocarbons - diesel range organics
- TPH-GRO - total petroleum hydrocarbons - gasoline range organics
- Total TPH - the sum of TPH-DRO and TPH-GRO
- no standard
- < - indicates result is less than stated laboratory method reporting limit
- BOLD** - indicates result exceeds the applicable standard

TABLE 1

SOIL ANALYTICAL RESULTS  
MILLER SOUTH #1 SPREAD FIELD  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

Location	Standard	Units	SB06	SB06R	SB07	SB07R	SB08	SB08R	SB09	SB10	SB10 (2)	SB11	SB11 (2)	SB12	SB12 (2)
Depth (feet)			3-6	3-5	3-6	3-5	3-6	3-5	3-6	3-7	3-5	3-7	3-5	3-6	3-5
Sample Date			3/8/2012	9/10/2012	3/8/2012	9/11/2012	3/8/2012	9/10/2012	3/8/2012	3/9/2012	9/10/2012	3/9/2012	9/11/2012	3/9/2012	9/11/2012
EC	4	mmhos/cm	0.568	0.0910	1.85	2.82	0.263	0.180	0.692	0.472	0.209	0.580	0.335	1.10	0.744
pH	9	SU	8.1	7.0	7.9	8.0	8.3	7.2	8.1	8.0	8.2	7.8	8.8	8.6	8.5
SAR	12	ratio	0.820	0.550	3.70	4.79	0.670	0.950	6.84	2.19	2.26	0.760	3.42	6.86	4.81
TPH-DRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH-GRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH	500	mg/kg	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50
Benzene	0.17	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	85	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Xylenes	175	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NOTES:

- EC - electrical conductivity
- mg/kg - milligrams per kilogram
- mmhos/cm - millimhos per centimeter
- SAR - sodium adsorption ratio
- SU - standard unit
- TPH-DRO - total petroleum hydrocarbons - diesel range organics
- TPH-GRO - total petroleum hydrocarbons - gasoline range organics
- Total TPH - the sum of TPH-DRO and TPH-GRO
- no standard
- < - indicates result is less than stated laboratory method reporting limit
- BOLD** - indicates result exceeds the applicable standard

TABLE 1

SOIL ANALYTICAL RESULTS  
MILLER SOUTH #1 SPREAD FIELD  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

Location	Standard	Units	SB13	SB14	SB14 (2)	SB15	SB15 (2)	SB16	SB16 (2)	SB17	SB18	SB19	SB20	SB21	SB22	SB23
Depth (feet)			1-3	3-7	3-5	3-7	3-5	3-6	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5
Sample Date			3/9/2012	3/9/2012	9/11/2012	3/9/2012	9/11/2012	3/9/2012	9/11/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012	9/10/2012
EC	4	mmhos/cm	1.59	0.738	0.928	1.37	1.77	1.30	2.06	0.908	0.461	1.43	0.130	0.153	0.732	1.08
pH	9	SU	8.2	8.2	8.2	7.9	8.8	7.7	8.0	8.7	7.3	8.8	7.4	7.4	7.9	8.8
SAR	12	ratio	6.77	14.6	3.33	4.75	10.4	1.91	2.86	5.52	2.80	4.47	1.65	1.00	1.14	8.36
TPH-DRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH-GRO	-	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Total TPH	500	mg/kg	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50	<50.50
Benzene	0.17	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	85	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Xylenes	175	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

NOTES:

- EC - electrical conductivity
- mg/kg - milligrams per kilogram
- mmhos/cm - millimhos per centimeter
- SAR - sodium adsorption ratio
- SU - standard unit
- TPH-DRO - total petroleum hydrocarbons - diesel range organics
- TPH-GRO - total petroleum hydrocarbons - gasoline range organics
- Total TPH - the sum of TPH-DRO and TPH-GRO
- no standard
- < - indicates result is less than stated laboratory method reporting limit
- BOLD** - indicates result exceeds the applicable standard

TABLE 2  
GROUNDWATER ANALYTICAL RESULTS  
MILLER SOUTH #1 SPREAD FIELD  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

Sample Location	Date Sampled	Depth to Water (feet)	Relative Groundwater Elevation (feet)	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
Background 01	9/12/2012	15.36	95.015	236	514	1,600	<1.0	<1.0	<1.0	<1.0
Background 02	9/12/2012	17.40	94.91	217	433	1,400	<1.0	<1.0	<1.0	<1.0
SB01	3/8/2012	3.30	NM	<b>1,260</b>	<b>1,070</b>	<b>4,600</b>	NA	NA	NA	NA
SB01R	9/11/2012	4.24	90.72	181	372	1,300	<1.0	<1.0	<1.0	<1.0
SB02	3/8/2012	6.46	NM	220	584	1,700	NA	NA	NA	NA
SB02R	9/11/2012	8.03	91.30	214	300	1,100	<1.0	<1.0	<1.0	<1.0
SB03	3/8/2012	6.22	NM	<b>348</b>	<b>1,070</b>	<b>3,100</b>	NA	NA	NA	NA
SB03R	9/11/2012	7.50	90.33	278	<b>646</b>	<b>2,300</b>	<1.0	<1.0	<1.0	<1.0
SB04	3/8/2012	7.08	NM	<b>296</b>	<b>1,220</b>	<b>3,100</b>	NA	NA	NA	NA
SB04R	9/11/2012	7.94	89.73	<b>488</b>	<b>1,600</b>	<b>4,800</b>	<1.0	<1.0	<1.0	<1.0
SB05	3/8/2012	7.94	NM	208	<b>896</b>	<b>2,400</b>	NA	NA	NA	NA
SB05R	9/11/2012	6.51	88.62	291	<b>1,060</b>	<b>3,000</b>	<1.0	<1.0	<1.0	<1.0
SB06	3/8/2012	7.82	NM	147	280	890	NA	NA	NA	NA
SB06R	9/11/2012	7.45	89.68	186	325	1,200	<1.0	<1.0	<1.0	<1.0
SB07	3/8/2012	6.93	NM	<b>1,020</b>	<b>1,620</b>	<b>4,700</b>	NA	NA	NA	NA
SB07R	9/11/2012	9.68	84.95	<b>773</b>	<b>896</b>	<b>3,400</b>	<1.0	<1.0	<1.0	<1.0
SB08	3/8/2012	9.73	NM	182	395	1,100	NA	NA	NA	NA
SB08R	9/11/2012	11.77	89.27	<b>2,140</b>	500	1,600	<1.0	<1.0	<1.0	<1.0
SB09 (background)	3/8/2012	8.09	NM	270	573	<b>2,000</b>	NA	NA	NA	NA
SB10	3/9/2012	9.64	NM	157	414	1,100	NA	NA	NA	NA
	9/12/2012	10.39	89.90	146	203	1,000	<1.0	<1.0	<1.0	<1.0
SB11	3/9/2012	8.58	NM	267	<b>717</b>	1,900	NA	NA	NA	NA
	9/12/2012	9.78	89.05	263	639	1,900	<1.0	<1.0	<1.0	<1.0
SB12	3/9/2012	6.16	NM	<b>300</b>	<b>1,230</b>	<b>2,500</b>	NA	NA	NA	NA
	9/12/2012	8.70	88.03	270	<b>643</b>	1,900	<1.0	<1.0	<1.0	<1.0
SB13	3/9/2012	5.61	NM	<b>439</b>	<b>1,210</b>	<b>2,900</b>	NA	NA	NA	NA
	9/12/2012	7.43	87.40	<b>314</b>	<b>902</b>	<b>2,400</b>	<1.0	<1.0	<1.0	<1.0
SB14	3/9/2012	6.15	NM	125	<b>991</b>	1,900	NA	NA	NA	NA
	9/12/2012	8.32	88.83	246	<b>1,010</b>	<b>2,500</b>	<1.0	<1.0	<1.0	<1.0
SB15	3/9/2012	10.97	NM				No Sample - Dry			
	9/12/2012	7.89	87.88	292	<b>900</b>	<b>2,500</b>	<1.0	<1.0	<1.0	<1.0

TABLE 2

GROUNDWATER ANALYTICAL RESULTS  
MILLER SOUTH #1 SPREAD FIELD  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

Sample Location	Date Sampled	Depth to Water (feet)	Relative Groundwater Elevation (feet)	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
SB16	3/9/2012	7.36	NM	297	730	2,200	NA	NA	NA	NA
	9/12/2012	9.15	88.52	194	597	2,000	<1.0	<1.0	<1.0	<1.0
SB17	9/11/2012	5.55	90.14	237	584	2,100	<1.0	<1.0	<1.0	<1.0
SB18	9/11/2012	7.75	90.85	290	<b>920</b>	<b>3,000</b>	<1.0	<1.0	<1.0	<1.0
SB19	9/11/2012	8.56	91.77	196	317	1,300	<1.0	<1.0	<1.0	<1.0
SB20	9/11/2012	10.33	89.50	183	180	1,000	<1.0	<1.0	<1.0	<1.0
SB21	9/11/2012	10.17	90.62	162	490	1,200	<1.0	<1.0	<1.0	<1.0
SB22	9/12/2012	11.14	87.53	<b>355</b>	<b>815</b>	<b>2,200</b>	<1.0	<1.0	<1.0	<1.0
SB23	9/12/2012	11.25	86.21	212	515	1,500	<1.0	<1.0	<1.0	<1.0
<b>COGCC Table 910-1</b>				<b>295</b>	<b>642.5</b>	<b>2,000</b>	<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>

## NOTES:

mg/L - milligrams per liter

NA - Not analyzed

&lt; - indicates result is less than the stated laboratory reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

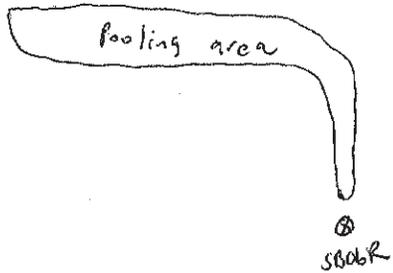
**BOLD** - indicates result exceeds the applicable standard

Chloride, sulfate, and total dissolved solids standard is &lt;1.25 x background concentrations

**ATTACHMENT 1**  
**SOIL BORING LOGS**

Location Map:

N ↑



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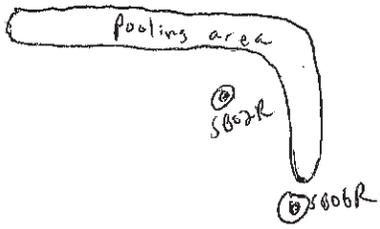
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB06 R	Project: Miller South # 1				
Date: 9-10-12	Project Number: NEP0901				
Logged By: Jacob Evans	Drilled By: ACI				
Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous		
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite	Grout: NA			
Casing Type: PVC	Diameter: 1"	Length: 5'	Hole Diameter: 2.25"	Depth to Liquid: N/A	
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10'	Total Depth: 13'	Depth to Water: 6'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3'-5'	0		SM	0-2 silty sand loose	
					2	0-5	SP	3-5 poorly graded sand loose	
	wet				4		SW	5-10 well graded sand loose	
		0.00	None		6		SW	10-14 SAA	
					8	5-10	CL	14-15 soft clay pliable	
		0.00	None		10				
					12	10-15			
		0.00	None		14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

N ↑



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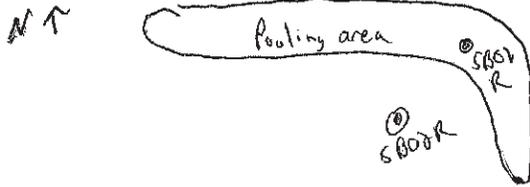
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: S802R	Project: Miller South # 1
Date: 9-10-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite	Grout: NA	
Casing Type: PVC	Diameter: 1"	Length: 5'	Hole Diameter: 2.25" Depth to Liquid: N/A
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10' Total Depth: 13' Depth to Water: 6'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Wet	0.02	None	3-5'	0		SP	1-5 loose poorly graded sand	
					2	1-5			
					4				
		0.00	None		6	6-10	SW	6-10 loose well graded sand	
					8				
		0.00	None		10	10-15	SW	10-15 SAA	
					12				
		0.06	None		14	13-15	CL	13-15 soft clay w/ fines	
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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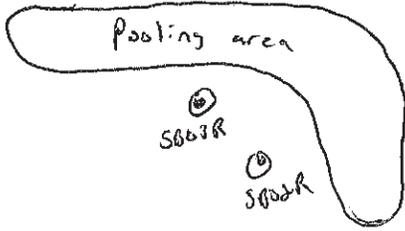
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB01R	Project: Miller South # 1
Date: 9-10-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI
Elevation: N/A	Detector: PID
Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite
Casing Type: PVC	Diameter: 1" Length: 5'
Screen Type: PVC	Slot: 0.010" Diameter: 1" Length: 10'
	Hole Diameter: 2.25" Depth to Liquid: N/A
	Total Depth: 13' Depth to Water: 5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	het	0.00	N6-e	3-5	0		SW	2-5 well graded sand loose	
					2	2-5			
		0.00	N6-e		4		SW	5-7 SAA	
				6		SP	7-8 loose poorly graded sand		
	0.00	N6-e		8	5-10				
				10		CL	8-10 soft clay w/ fines		
	0.00	N6-e		12	11-15				
				14		SW	11-12 loose well graded sand		
				16		CL	12-13 soft clay w/ fines		
				18		ML	13-15 clayey silt not pliable		
				20					
				22					
				24					
				26					
				28					
				30					

Location Map:

N ↑



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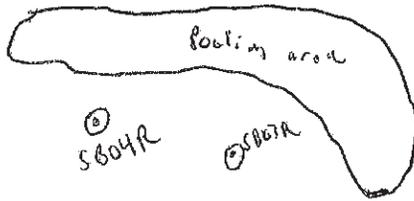
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: <b>SB03R</b>	Project: <b>Miller South # 1</b>
Date: <b>9-10-2012</b>	Project Number: <b>NEP0901</b>
Logged By: <b>Jacob Evans</b>	Drilled By: <b>ACI</b>
Drilling Method: <b>Direct Push</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>10-20 Silica Sand</b>	Seal: <b>Bentonite</b>
Casing Type: <b>PVC</b>	Diameter: <b>1"</b> Length: <b>5'</b>
Screen Type: <b>PVC</b>	Slot: <b>0.010"</b> Diameter: <b>1"</b> Length: <b>10'</b>
	Hole Diameter: <b>2.25"</b> Depth to Liquid: <b>N/A</b>
	Total Depth: <b>13'</b> Depth to Water: <b>6'</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0		CL	1-3 silty clay pliable	
					2	1-5	SW	3-5 well graded sand loose	
					4				
					6		SW	5-9 SAA	
		0.00	None		8	5-10	CL	9-10 sandy clay pliable	
					10				
					12	11-15	nw	11-12 well graded sand loose	
		0.00	None		14		CL	12-14 soft clay w/ fines	
					16		SC	14-15 clayey sand not pliable	
					18			poorly graded	
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT



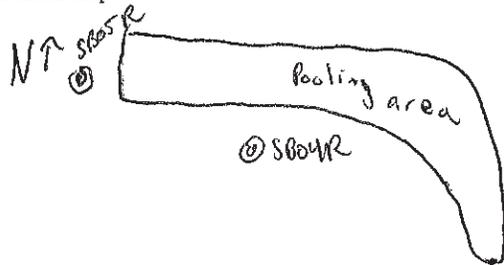
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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: <b>SB04R</b>	Project: <b>Miller South # 1</b>
Date: <b>9-10-12</b>	Project Number: <b>NEP0901</b>
Logged By: <b>Jacob Evans</b>	Drilled By: <b>ACI</b>
Elevation: <b>N/A</b>	Detector: <b>PID</b>
Drilling Method: <b>Direct Push</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>10-20 Silica Sand</b>	Seal: <b>Bentonite</b>
Casing Type: <b>PVC</b>	Diameter: <b>1"</b> Length: <b>5'</b>
Screen Type: <b>PVC</b>	Slot: <b>0.010"</b> Diameter: <b>1"</b> Length: <b>10'</b>
	Hole Diameter: <b>2.25"</b> Depth to Liquid: <b>N/A</b>
	Total Depth: <b>13'</b> Depth to Water: <b>6'</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		SC	1-3 clayey sand well graded	
		0.00	None	3-5	2	1-5		flittle	
					4		SW	3-5 loose well graded sand	
	Wet				6		SW	6-8 SAA	
		0.00	None		8	6-10	CL	8-10 medium clay	
					10				
					12		SW	11-12 well graded sand	
					14	11-15	CL	12-15 medium clay	
		0.00	None		16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: **SB05R** Project: **Miller South # 1**

Date: **9-10-12** Project Number: **NEP0901**

Logged By: **Jacob Evans** Drilled By: **ACI**

Elevation: **N/A** Detector: **PID** Drilling Method: **Direct Push** Sampling Method: **Continuous**

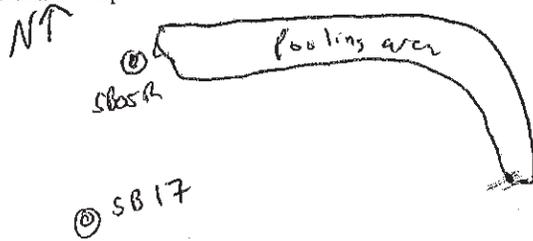
Gravel Pack: **10-20 Silica Sand** Seal: **Bentonite** Grout: **NA**

Casing Type: **PVC** Diameter: **1"** Length: **5'** Hole Diameter: **2.25"** Depth to Liquid: **N/A**

Screen Type: **PVC** Slot: **0.010"** Diameter: **1"** Length: **10'** Total Depth: **13'** Depth to Water: **6'**

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0	1-5	SP	1-5 loose poorly graded sand	
	wet	0.00	None		2				
					4				
		0.00	None		6		SP	6-7 S44	
					8	6-10	CL	7-10 Silty clay pliable	
					10				
		0.00	None		12	11-15	CL	11-15 medium sandy clay	
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



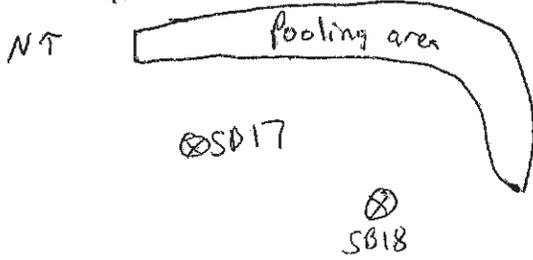
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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB17	Project: Miller South # 1
Date: 9-10-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI
Elevation: N/A	Detector: PID
Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite
	GROUT: NA
Casing Type: PVC	Diameter: 1" Length: 5'
	Hole Diameter: 2.25" Depth to Liquid: N/A
Screen Type: PVC	Slot: 0.010" Diameter: 1" Length: 10'
	Total Depth: 13' Depth to Water: 6'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		CL	1-3 silty clay pliable	X
		0.00	None	3-5	2	1-5	SW	4-5 well graded sand	X
	wet				4		SW	5-9 SAA	
		0.00	None		6	5-10	SW	9-10 soft clay w/ fines	
					8		CL	10-12 well graded sand	
		0.00	None		10	10-15	SW	12-15 medium clay	
					12		CL		
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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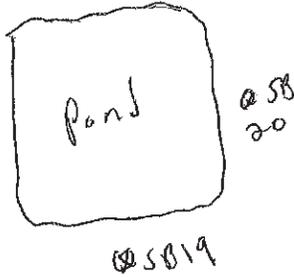
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	SB18	Project:	Miller South # 1
Date:	9-10-12	Project Number:	NEP0901
Logged By:	Jacob Evans	Drilled By:	ACI
Drilling Method:	Direct Push	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite
Casing Type:	PVC	Diameter:	1"
Screen Type:	PVC	Slot:	0.010"
		Length:	5'
		Hole Diameter:	2.25"
		Depth to Liquid:	N/A
		Total Depth:	13'
		Depth to Water:	6'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		CL	1-3 Silty clay	
		0.00	None	3-5	2	1-5	SP	3-5 poorly sorted sand	
	wet				4				
					6		SP	8-10 SAA	
		0.00	None		8	8-10			
					10				
					12		CL	12-15 medium clay w/ fines	
		0.00	None		14	12-15			
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

N ↑



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

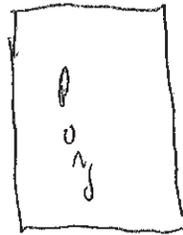
Boring/Well Number: SB 19	Project: Miller South # 1
Date: 9-10-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI
Elevation: N/A	Detector: PID
Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite
Casing Type: PVC	Diameter: 1" Length: 8'
Screen Type: PVC	Slot: 0.010" Diameter: 1" Length: 15'
	Hole Diameter: 2.25" Depth to Liquid: N/A
	Total Depth: 20' Depth to Water: 10'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		SP	1-3 poorly graded sand loose	X
		0.00	None	3-5	2	1-5	CL	3-5 sandy clay pliable soft	X
					4				
					6		SP	6-8 poorly graded sand	
					8	6-10			
	wet	0.00	None		10		SW	8-10 well graded sand	
					12		SW	11-13 SAA	
		0.00	None		14	11-15	SC	13-15 clayey sand pliable	
					16		SW	15-16 well graded sand	
					18	15-20	ML	16-20 clayey silt pliable	
		0.00	None		20				
					22				
					24				
					26				
					28				
					30				

\* Well set on top of road at higher elevation

Location Map:

NTR



SB20

SB19



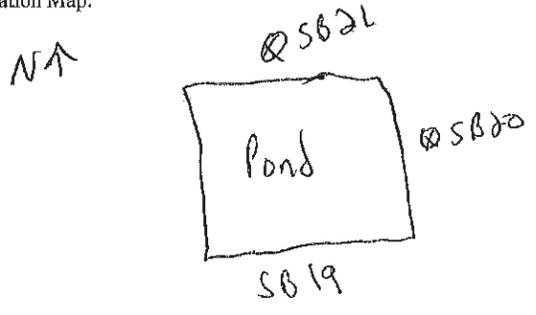
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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	SB20	Project:	Miller South # 1								
Date:	9-10-12	Project Number:	NEP0901								
Logged By:	Jacob Evans	Drilled By:	ACI								
Drilling Method:	Direct Push	Sampling Method:	Continuous								
Seal:	Bentonite	Grout:	NA								
Casing Type:	PVC	Diameter:	1"	Length:	8'	Hole Diameter:	2.25"	Depth to Liquid:	N/A		
Screen Type:	PVC	Slot:	0.010"	Diameter:	1"	Length:	15'	Total Depth:	20'	Depth to Water:	8'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		CL	1-3 silty clay hard	
		0.00	None	3-5	2	1-5	SP	3-5 poorly graded sand loose	
					4				
					6		SW	6-10 well graded sand	
		0.00	None		8	6-10			
					10		SW	11-14 SAA	
					12	11-15			
		0.00	None		14	11-15	ML	14-15 clayey silt	
					16		SC	15-17 clayey sand	
		0.00	None		18	15-20	CL	17-20 sandy clay	
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: <b>SB21</b>	Project: <b>Miller South # 1</b>
Date: <b>9-10-12</b>	Project Number: <b>NEP0901</b>
Logged By: <b>Jacob Evans</b>	Drilled By: <b>ACI</b>
Elevation: <b>N/A</b>	Detector: <b>PID</b>
Drilling Method: <b>Direct Push</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>10-20 Silica Sand</b>	Seal: <b>Bentonite</b>
Casing Type: <b>PVC</b>	Diameter: <b>1"</b> Length: <b>8'</b>
Screen Type: <b>PVC</b>	Slot: <b>0.010"</b> Diameter: <b>1"</b> Length: <b>15'</b>
	Hole Diameter: <b>2.25"</b> Depth to Liquid: <b>N/A</b>
	Total Depth: <b>20'</b> Depth to Water: <b>8'</b>

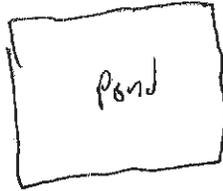
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0			1-5 poor graded sand	
		0.01	None	3-5	2	1-5	SP		
		0.00	None		6		SP	6-10 SAA	
		0.00	None		12		SC	10-14 clayey sand	
		0.00	None		14		CL	14-15 medium clay	
		0.00	None		18		CL	15-20 SAA	
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

N7

JB08R

SB 21



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: JB08R	Project: Miller South # 1
Date: 9-10-18	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI
Elevation: N/A	Detector: PID
Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite
	Grout: NA
Casing Type: PVC	Diameter: 1" Length: 8'
	Hole Diameter: 2.25" Depth to Liquid: N/A
Screen Type: PVC	Slot: 0.010" Diameter: 1" Length: 15'
	Total Depth: 20' Depth to Water: 7'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
		0.00	None	3-5	1-5		SP	1-5 loose poorly graded sand	X
					6		SP	5-10 SAA	
	wet	0.00	None		8	5-10			
		0.00	None		10				
		0.00	None		12	10-15	SP	10-15 SAA	
		0.00	None		14				
		0.00	None		16		CL	15-20 medium clay	
		0.00	None		18	15-20			
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT  
 ⊗ SB10  
 ⊗ SB08R



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB 10 (2)	Project: Miller South I
Date: 9-10-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: N/A	Seal: N/A	Grout: N/A
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Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
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Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: N/A
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.02	None	3-5	0	0-5	Sl	0-5 poor gravel sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NA B<sup>59</sup>23 @ SB22



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB22	Project: Miller South # 1		
Date: 9-10-12	Project Number: NEP0901		
Logged By: Jacob Evans	Drilled By: ACI		
Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite	Grout: NA	
Casing Type: PVC	Diameter: 1" Length: 5'	Hole Diameter: 2.25"	Depth to Liquid: N/A
Screen Type: PVC	Slot: 0.010" Diameter: 1" Length: 10'	Total Depth: 15'	Depth to Water: 8'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0	1-5	SW	1-4 loose well graded sand	
					2				
					4		ML	4-5 clayey silt	
		0.00	None		6				
					8	5-10	SW	5-9 loose well graded sand	
					10		ML	9-10 clayey silt	
		0.00	None		12				
					14	10-15	ML	10-15 clayey silt loose	
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT ⊗ SB23 ⊗ SB22



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB23	Project: Miller South # 1				
Date: 9-10-12	Project Number: NEP0901				
Logged By: Jacob Evans	Drilled By: ACI				
Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous		
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite	Grout: NA			
Casing Type: PVC	Diameter: 1"	Length: 5'	Hole Diameter: 2.25"	Depth to Liquid: N/A	
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 10'	Total Depth: 15'	Depth to Water: 7'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	75	0		SP	1-5 loose poorly graded sand	X X
		0.00	None		2	1-5	SC	5-7 clayey sand	
		0.00	None		4		CL	7-10 silty clay	
		0.00	None		6		CL	10-13 SAA	
		0.00	None		8	5-10	CL	13-14.5 medium clay	
		0.00	None		10		CL	14.5-15 Redrock sandstone	
					12	10-15			
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT  
 SB13 SB12

Grass



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB13 (2)	Project: Miller South I
Date: 9-11-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: N/A	Seal: N/A	Grout: N/A
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Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
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Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: N/A
------------------	-----------	---------------	-------------	-----------------	---------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0	1-5	SP	1-5 poor graded sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

SB13 (2)

SB12 (2)

NT

Grass



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB12 (2)	Project: Miller South I
Date: 9-11-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
----------------	---------------	------------------------------	-----------------------------

Gravel Pack: N/A	Seal: N/A	Grout: N/A
------------------	-----------	------------

Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
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Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: NA
------------------	-----------	---------------	-------------	-----------------	--------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.05	None	3-5	0	1-5	SP	Poorly graded sand 1-5	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

Grass

SB11(2)

SB10



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB 11(2)	Project: Miller South I
Date: 9-11-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
----------------	---------------	------------------------------	-----------------------------

Gravel Pack: N/A	Seal: N/A	Grout: N/A
------------------	-----------	------------

Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
------------------	---------------	-------------	----------------------	----------------------

Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: NA
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Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.0	None	3-5	0	1-5	SP	1-5 poorly graded sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

SB 16 (a) SB 15 (a)  
LSE Rd

NP



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB 16 (2)	Project: Miller South I
Date: 9-11-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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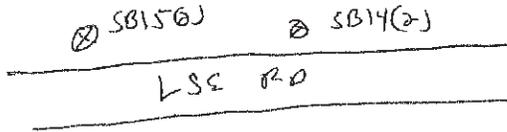
Gravel Pack: N/A	Seal: N/A	Grout: N/A
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Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
---------------------	------------------	----------------	-------------------------	-------------------------

Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: N/A
---------------------	--------------	------------------	----------------	--------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0	1-5	SP	1-5 poor graded sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: <b>SB14(2)</b>		Project: <b>Miller South I</b>	
Date: <b>9-11-12</b>		Project Number: <b>NEP0901</b>	
Logged By: <b>Jacob Evans</b>		Drilled By: <b>ACI</b>	
Elevation: <b>N/A</b>	Detector: <b>PID</b>	Drilling Method: <b>Direct Push</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>N/A</b>		Seal: <b>N/A</b>	Grout: <b>N/A</b>
Casing Type: <b>N/A</b>	Diameter: <b>N/A</b>	Length: <b>N/A</b>	Hole Diameter: <b>2.25"</b>
Screen Type: <b>N/A</b>		Slot: <b>N/A</b>	Depth to Liquid: <b>N/A</b>
Diameter: <b>N/A</b>		Length: <b>N/A</b>	Total Depth: <b>5'</b>
Depth to Water: <b>NA</b>			

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0	1-5	SP	1-5 poor graded sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NA

⊗ SB15(a)    ⊗ SB14  
 Lsc RD



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: SB15 (a)	Project: Miller South I
Date: 9-11-12	Project Number: NEP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
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Gravel Pack: N/A	Seal: N/A	Grout: N/A
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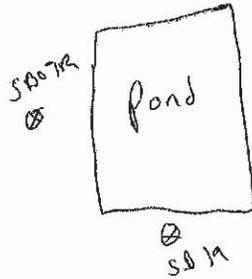
Casing Type: N/A	Diameter: N/A	Length: N/A	Hole Diameter: 2.25"	Depth to Liquid: N/A
---------------------	------------------	----------------	-------------------------	-------------------------

Screen Type: N/A	Slot: N/A	Diameter: N/A	Length: N/A	Total Depth: 5'	Depth to Water: N/A
---------------------	--------------	------------------	----------------	--------------------	------------------------

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0-00	None	3-5	0	1-5	SM	1-5 silty sand	NA
					2				
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT



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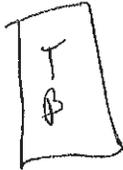
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	SB07R	Project:	Miller South I								
Date:	9-11-12	Project Number:	NEP0901								
Logged By:	Jacob Evans	Drilled By:	ACI								
Drilling Method:	Direct Push	Sampling Method:	Continuous								
Seal:	Bentonite	Grout:	NA								
Casing Type:	PVC	Diameter:	1"	Length:	5'	Hole Diameter:	2.25"	Depth to Liquid:	N/A		
Screen Type:	PVC	Slot:	0.010"	Diameter:	1"	Length:	15'	Total Depth:	20'	Depth to Water:	15'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		SW	1-3 well graded sand	X
		0.00	None	3-5	2	1-5	CL	3-5 silty clay medium	X
		0.00	None		4				
		0.00	None		6		SP	5-10 poorly graded sand	
		0.00	None		8	5-10			
		0.00	None		10				
		0.00	None		12	10-15	SW	10-12 well graded sand	
					14		CL	12-15 medium silty clay	
	wet				16				
		0.00	None		18	15-20	SC	15-20 clayey sand not plastic	
					20				
					22				
					24				
					26				
					28				
					30				

Location Map:

NT



⊗ Background 1  
(Cross)  
⊗ Background 2



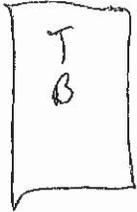
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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number:	Background 2	Project:	Miller South I
Date:	9-11-12	Project Number:	NEP0901
Logged By:	Jacob Evans	Drilled By:	ACI
Elevation:	N/A	Drilling Method:	Direct Push
Detector:	PID	Sampling Method:	Continuous
Gravel Pack:	10-20 Silica Sand	Seal:	Bentonite
Casing Type:	PVC	Diameter:	1"
Screen Type:	PVC	Length:	10'
Slot:	0.010"	Hole Diameter:	2.25"
Diameter:	1"	Depth to Liquid:	N/A
Length:	15'	Total Depth:	25'
Grout:	NA	Depth to Water:	15'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0		SP	1-5 poor graded sand	
		0.00	None	3-5	2	1-5			
					4				
		0.00	None		6		SP	6-10 SAA	
					8	6-10			
		0.00	None		10		SP	10-15 SAA	
					12	10-15			
		0.00	None		14				
	wet				16		CL	15-20 silty clay medium	
		0.00	None		18	15-20			
					20				
		0.00	None		22	20-25	CL	20-25 SAA	
					24				
		0.00	None		26				
					28				
					30				

Location Map:



Background 01

Grass

Background 02



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**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Boring/Well Number: Background 01	Project: Miller South I CACI
Date: 9-11-11	Project Number: NESP0901
Logged By: Jacob Evans	Drilled By: ACI

Elevation: N/A	Detector: PID	Drilling Method: Direct Push	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Bentonite	Grout: NA	
Casing Type: PVC	Diameter: 1"	Length: 5'	Hole Diameter: 2.25" Depth to Liquid: N/A
Screen Type: PVC	Slot: 0.010"	Diameter: 1"	Length: 15' Total Depth: 20' Depth to Water: 13'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
		0.00	None	3-5	0-2	1-5	SP	1-5 loose poor graded sand	
		0.00	None		2-4				
		0.00	None		4-6				
		0.00	None		6-8	6-10	SP	6-10 SAA	
	wet	0.00	None		8-10				
		0.00	None		10-12	10-15	SC	10-15 clayey sand not pliable	
		0.00	None		12-14				
		0.00	None		14-16				
		0.00	None		16-18	15-20	SC SP	15-17 SAA 17-20 tight sand poor grade	
					18-20			refusal @ 20'	
					20-22				
					22-24				
					24-26				
					26-28				
					28-30				

**ATTACHMENT 2**  
**LABORATORY ANALYTICAL REPORTS**

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 19, 2012

Rob Rebel

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Miller South #1 CACL

Enclosed are the results of analyses for samples received by Summit Scientific on 09/12/12 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV

Laboratory Director



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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

**Reported:**  
09/19/12 14:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10	R209070-01	Water	09/12/12 12:15	09/12/12 16:45
SB11	R209070-02	Water	09/12/12 12:30	09/12/12 16:45
SB12	R209070-03	Water	09/12/12 12:45	09/12/12 16:45
SB13	R209070-04	Water	09/12/12 13:00	09/12/12 16:45
SB14	R209070-05	Water	09/12/12 11:00	09/12/12 16:45
SB15	R209070-06	Water	09/12/12 10:40	09/12/12 16:45
SB16	R209070-07	Water	09/12/12 10:15	09/12/12 16:45
SB22	R209070-08	Water	09/12/12 13:15	09/12/12 16:45
SB23	R209070-09	Water	09/12/12 13:30	09/12/12 16:45
Background 01	R209070-10	Water	09/12/12 14:30	09/12/12 16:45
Background 02	R209070-11	Water	09/12/12 14:45	09/12/12 16:45



LT Environmental, Inc.  
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Arvada CO, 80003

Project: NEP - Miller South #1 CACL

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Reported:  
09/19/12 14:20

R209070.1

# Summit Scientific

S<sub>2</sub>

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Page 1 of 2

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 633-9788  
Sample Name: M BAK

Project Manager: Rob Rebel  
E-Mail: drb@summit-sc.com  
Project Name: Miller South #1 CACL  
Project Number: NEP0901

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions		
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	Chlorides		Sulfates	TSS
5810	9/12/12	1215	4	X				X										
5811		1230																
5812		1245																
5813		1300																
5814		1100																
5815		1040																
5816		1015																
5822		135																
5823		1330																
Backward C1	V	1430	N															
Relinquished by: <u>M BAK</u> Date/Time: <u>9/12/12 1645</u>				Received by: <u>[Signature]</u> Date/Time: <u>9/12/12 1745</u>				Turn Around Time (Check): Some Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>				Notes:						
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				Sample Integrity: Temperature-Upon Receipt: <u>4/5</u> Impact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>										

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**SB10**  
**R209070-01 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>146</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>203</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1000</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**SB11**  
**R209070-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>263</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>639</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1900</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**SB12**  
**R209070-03 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>270</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>643</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1900</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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09/19/12 14:20

**SB13**  
**R209070-04 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>314</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>902</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2400</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Reported:  
09/19/12 14:20

**SB14**  
**R209070-05 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.5 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>246</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>1010</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2500</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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**SB15**  
**R209070-06 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.1 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>292</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>900</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2500</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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**SB16**  
**R209070-07 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.4 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>194</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>597</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2000</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Reported:  
09/19/12 14:20

**SB22**  
**R209070-08 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>355</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>815</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2200</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Reported:  
09/19/12 14:20

**SB23**  
**R209070-09 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.3 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>212</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>515</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1500</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**Background 01**  
**R209070-10 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>236</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>514</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1600</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL  
Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**Background 02**  
**R209070-11 (Water)**

**Summit Scientific**

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

Date Sampled: **09/12/12 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091415	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/12/12 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.6 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/12/12 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>217</b>	10.0	mg/L	10	2091708	09/17/12	09/19/12	EPA 300.0	

Date Sampled: **09/12/12 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>433</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/12/12 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1400</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 2091415 - EPA 5030 Water MS**

**Blank (2091415-BLK1)**

Prepared: 09/14/12 Analyzed: 09/16/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2	101	49.7-150				
Surrogate: Toluene-d8	12.5		"	13.3	93.9	51-150				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.7	50.1-150				

**LCS (2091415-BS1)**

Prepared: 09/14/12 Analyzed: 09/16/12

Benzene	29.2	1.0	ug/l	33.3	87.5	51-132				
Toluene	31.0	1.0	"	33.3	93.0	51-138				
Ethylbenzene	36.8	1.0	"	33.3	110	58-146				
m,p-Xylene	72.9	2.0	"	66.7	109	57-144				
o-Xylene	37.5	1.0	"	33.3	112	53-146				
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.2	94.2	49.7-150				
Surrogate: Toluene-d8	12.5		"	13.3	94.1	51-150				
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3	92.7	50.1-150				

**LCS Dup (2091415-BSD1)**

Prepared: 09/14/12 Analyzed: 09/16/12

Benzene	31.1	1.0	ug/l	33.3	93.2	51-132	6.24	17		
Toluene	31.9	1.0	"	33.3	95.6	51-138	2.70	17		
Ethylbenzene	37.6	1.0	"	33.3	113	58-146	2.15	16		
m,p-Xylene	74.9	2.0	"	66.7	112	57-144	2.68	16		
o-Xylene	38.4	1.0	"	33.3	115	53-146	2.40	15		
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2	100	49.7-150				
Surrogate: Toluene-d8	12.7		"	13.3	95.2	51-150				
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3	92.1	50.1-150				

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

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

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

**Batch 2091415 - EPA 5030 Water MS**

<b>Matrix Spike (2091415-MS1)</b>	<b>Source: R209070-01</b>			Prepared: 09/14/12		Analyzed: 09/16/12	
Benzene	30.7	1.0	ug/l	33.3	ND	92.1	34-141
Toluene	33.4	1.0	"	33.3	ND	100	27-151
Ethylbenzene	37.4	1.0	"	33.3	ND	112	29-160
m,p-Xylene	73.8	2.0	"	66.7	ND	111	20-166
o-Xylene	37.8	1.0	"	33.3	ND	113	33-159
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.7</i>		<i>"</i>	<i>13.2</i>		<i>95.9</i>	<i>49.7-150</i>
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.7</i>	<i>51-150</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>13.3</i>		<i>92.1</i>	<i>50.1-150</i>

<b>Matrix Spike Dup (2091415-MSD1)</b>	<b>Source: R209070-01</b>			Prepared: 09/14/12		Analyzed: 09/16/12			
Benzene	31.4	1.0	ug/l	33.3	ND	94.2	34-141	2.29	32
Toluene	34.0	1.0	"	33.3	ND	102	27-151	1.87	25
Ethylbenzene	38.2	1.0	"	33.3	ND	114	29-160	1.98	50
m,p-Xylene	75.6	2.0	"	66.7	ND	113	20-166	2.41	36
o-Xylene	38.3	1.0	"	33.3	ND	115	33-159	1.55	26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.4</i>		<i>"</i>	<i>13.2</i>		<i>93.6</i>	<i>49.7-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.6</i>	<i>51-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.2</i>		<i>"</i>	<i>13.3</i>		<i>91.7</i>	<i>50.1-150</i>		

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/19/12 14:20

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch 2091708 - General Preparation**

**Blank (2091708-BLK1)**

Prepared: 09/17/12 Analyzed: 09/19/12

Sulfate	ND	1.00	mg/L							
Chloride	ND	1.00	"							

**LCS (2091708-BS1)**

Prepared: 09/17/12 Analyzed: 09/19/12

Sulfate	9.38	1.00	mg/L	10.0	93.8	90-110				
Chloride	10.1	1.00	"	10.0	101	90-110				

**LCS Dup (2091708-BSD1)**

Prepared: 09/17/12 Analyzed: 09/19/12

Sulfate	9.35	1.00	mg/L	10.0	93.5	90-110	0.395	10		
Chloride	10.1	1.00	"	10.0	101	90-110	0.278	10		

**Matrix Spike (2091708-MS1)**

Source: R209070-03

Prepared: 09/17/12 Analyzed: 09/19/12

Sulfate	599	10.0	mg/L	10.0	643	NR	80-120			QM-4X
Chloride	253	10.0	"	10.0	270	NR	80-120			QM-4X

**Matrix Spike Dup (2091708-MSD1)**

Source: R209070-03

Prepared: 09/17/12 Analyzed: 09/19/12

Chloride	254	10.0	mg/L	10.0	270	NR	80-120	0.252	20	QM-4X
Sulfate	594	10.0	"	10.0	643	NR	80-120	0.876	20	QM-4X

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Rob Rebel

**Reported:**  
 09/19/12 14:20

**Miscellaneous Physical/Conventional Chemistry Parameters - Quality Control**  
**Summit Scientific**

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

**Batch 2091408 - General Preparation**

**Blank (2091408-BLK1)**

Prepared: 09/14/12 Analyzed: 09/17/12

Total Dissolved Solids                      ND                      1.0                      mg/L

**Blank (2091408-BLK2)**

Prepared: 09/14/12 Analyzed: 09/17/12

Total Dissolved Solids                      ND                      1.0                      mg/L

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

**Reported:**  
09/19/12 14:20

### Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 18, 2012

Steve Kahn

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Miller South #1 CACL

Enclosed are the results of analyses for samples received by Summit Scientific on 09/11/12 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV For Ben Shrewsbury  
President / Laboratory Director



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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/18/12 09:25

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background 01	R209065-01	Soil	09/11/12 09:00	09/11/12 17:05
Background 02	R209065-02	Soil	09/11/12 09:20	09/11/12 17:05
SB07R	R209065-03	Soil	09/11/12 09:40	09/11/12 17:05
SB15(2)	R209065-04	Soil	09/11/12 10:00	09/11/12 17:05
SB14(2)	R209065-05	Soil	09/11/12 10:20	09/11/12 17:05
SB16(2)	R209065-06	Soil	09/11/12 10:40	09/11/12 17:05
SB11(2)	R209065-07	Soil	09/11/12 11:00	09/11/12 17:05
SB12(2)	R209065-08	Soil	09/11/12 11:20	09/11/12 17:05
SB13(2)	R209065-09	Soil	09/11/12 11:40	09/11/12 17:05

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**Background 01**  
**R209065-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 09/11/12 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: 09/11/12 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		78.2 %	30-150		"	"	"	"	

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

Date Sampled: 09/11/12 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 09/11/12 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 09/11/12 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0656	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**Background 01**  
**R209065-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.6</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>5.93</b>	2.50	mg/kg	1	2091206	09/12/12	09/12/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>5.46</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>ND</b>	5.00	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.300</b>		units	"	2091413	09/14/12	09/14/12	"	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**Background 02**  
**R209065-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 09/11/12 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: 09/11/12 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		76.0 %	30-150		"	"	"	"	

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

Date Sampled: 09/11/12 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 09/11/12 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: 09/11/12 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0368	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/18/12 09:25

**Background 02**  
**R209065-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.8</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>10.6</b>	2.50	mg/kg	1	2091206	09/12/12	09/12/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>7.60</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>ND</b>	5.00	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.290</b>		units	"	2091413	09/14/12	09/14/12	"	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB07R**  
**R209065-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		79.8 %	30-150		"	"	"	"	

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

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>2.82</b>	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/18/12 09:25

**SB07R**  
**R209065-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.0</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>788</b>	2.50	mg/kg	1	2091206	09/12/12	09/12/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>112</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>543</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/11/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>4.79</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB15(2)**  
**R209065-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		83.9 %	30-150		"	"	"	"	

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

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.77	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/18/12 09:25

**SB15(2)**  
**R209065-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.8</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>93.4</b>	2.50	mg/kg	1	2091206	09/12/12	09/12/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>60.7</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>528</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>10.4</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB14(2)**  
**R209065-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		85.4 %	30-150		"	"	"	"	

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

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.5 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.928</b>	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB14(2)**  
**R209065-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.2</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>127</b>	2.50	mg/kg	1	2091206	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>46.8</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>173</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.33</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB16(2)**  
**R209065-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		84.7 %	30-150		"	"	"	"	

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

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>2.06</b>	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB16(2)**  
**R209065-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.0</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>528</b>	2.50	mg/kg	1	2091206	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>121</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>280</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.86</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB11(2)**  
**R209065-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		84.9 %	30-150		"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.1 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.335</b>	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB11(2)**  
**R209065-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.8</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>21.7</b>	2.50	mg/kg	1	2091206	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>12.3</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>80.4</b>	5.00	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.42</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB12(2)**  
**R209065-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		69.2 %	30-150		"	"	"	"	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.1 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.744</b>	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

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LT Environmental, Inc.  
4600 West 60th Avenue  
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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB12(2)**  
**R209065-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.5</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>68.3</b>	2.50	mg/kg	1	2091206	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>52.1</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>217</b>	5.00	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>4.81</b>		units	"	2091413	09/14/12	09/14/12	"	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**SB13(2)**  
**R209065-09 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091406	09/14/12	09/15/12	8015 Full Carbon Chain	

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		81.1 %	30-150		"	"	"	"	

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

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091405	09/14/12	09/15/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.00100	mmhos/cm	1	2091308	09/13/12	09/17/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/18/12 09:25

**SB13(2)**  
**R209065-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.9</b>		pH Units	1	2091306	09/13/12	09/17/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>56.9</b>	2.50	mg/kg	1	2091206	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>53.0</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>358</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>8.21</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2091406 - EPA 3550A**

<b>Blank (2091406-BLK1)</b>				Prepared & Analyzed: 09/14/12							
C10-C28 (DRO)	ND	50	mg/kg								
<b>LCS (2091406-BS1)</b>				Prepared & Analyzed: 09/14/12							
C10-C28 (DRO)	431	50	mg/kg	501	86.0	73-134					
<b>LCS Dup (2091406-BSD1)</b>				Prepared & Analyzed: 09/14/12							
C10-C28 (DRO)	429	50	mg/kg	501	85.5	73-134	0.547		11		
<b>Matrix Spike (2091406-MS1)</b>				<b>Source: R209076-05</b>		Prepared & Analyzed: 09/14/12					
C10-C28 (DRO)	451	50	mg/kg	502	48.6	80.1	50-148				
<b>Matrix Spike Dup (2091406-MSD1)</b>				<b>Source: R209076-05</b>		Prepared & Analyzed: 09/14/12					
C10-C28 (DRO)	436	50	mg/kg	501	48.6	77.3	50-148	3.41	13		

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

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

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

**Batch 2091405 - EPA 5030 Soil MS**

**Blank (2091405-BLK1)**

Prepared & Analyzed: 09/14/12

Benzene	ND	0.0050	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.0050	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0397	104	30-150					
Surrogate: Toluene-d8	0.0389		"	0.0400	97.3	30-150					
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400	98.2	30-150					

**LCS (2091405-BS1)**

Prepared & Analyzed: 09/14/12

Benzene	0.0941	0.0050	mg/kg	0.100	94.1	58-130					
Toluene	0.0974	0.0050	"	0.100	97.4	61-134					
Ethylbenzene	0.114	0.0050	"	0.100	114	74-139					
m,p-Xylene	0.224	0.010	"	0.200	112	73-137					
o-Xylene	0.116	0.0050	"	0.100	116	73-141					
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0397	94.9	30-150					
Surrogate: Toluene-d8	0.0382		"	0.0400	95.6	30-150					
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400	95.8	30-150					

**LCS Dup (2091405-BSD1)**

Prepared & Analyzed: 09/14/12

Benzene	0.0886	0.0050	mg/kg	0.100	88.6	58-130	6.08	13			
Toluene	0.0948	0.0050	"	0.100	94.8	61-134	2.65	16			
Ethylbenzene	0.112	0.0050	"	0.100	112	74-139	1.70	12			
m,p-Xylene	0.222	0.010	"	0.200	111	73-137	1.03	14			
o-Xylene	0.114	0.0050	"	0.100	114	73-141	0.965	12			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0397	91.3	30-150					
Surrogate: Toluene-d8	0.0375		"	0.0400	93.8	30-150					
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400	95.2	30-150					

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

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

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

**Batch 2091405 - EPA 5030 Soil MS**

<b>Matrix Spike (2091405-MS1)</b>	<b>Source: R209076-05</b>			<b>Prepared &amp; Analyzed: 09/14/12</b>								
Benzene	0.0878	0.0050	mg/kg	0.100	ND	87.8	30-131					
Toluene	0.0938	0.0050	"	0.100	ND	93.8	30-134					
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	22-153					
m,p-Xylene	0.220	0.010	"	0.200	0.00623	107	10-159					
o-Xylene	0.113	0.0050	"	0.100	ND	113	31-151					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0397</i>		<i>99.1</i>	<i>30-150</i>					
<i>Surrogate: Toluene-d8</i>	<i>0.0376</i>		<i>"</i>	<i>0.0400</i>		<i>94.1</i>	<i>30-150</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.1</i>	<i>30-150</i>					

<b>Matrix Spike Dup (2091405-MSD1)</b>	<b>Source: R209076-05</b>			<b>Prepared &amp; Analyzed: 09/14/12</b>								
Benzene	0.0979	0.0050	mg/kg	0.0996	ND	98.3	30-131	10.9	34			
Toluene	0.0997	0.0050	"	0.0996	ND	100	30-134	6.19	30			
Ethylbenzene	0.115	0.0050	"	0.0996	ND	115	22-153	4.20	24			
m,p-Xylene	0.229	0.010	"	0.199	0.00623	112	10-159	3.92	68			
o-Xylene	0.118	0.0050	"	0.0996	ND	118	31-151	4.09	38			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0429</i>		<i>"</i>	<i>0.0395</i>		<i>109</i>	<i>30-150</i>					
<i>Surrogate: Toluene-d8</i>	<i>0.0379</i>		<i>"</i>	<i>0.0398</i>		<i>95.0</i>	<i>30-150</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0398</i>		<i>97.9</i>	<i>30-150</i>					

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/18/12 09:25

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 2091306 - General Preparation**

<b>Duplicate (2091306-DUP1)</b>		<b>Source: R209071-06</b>		Prepared: 09/13/12		Analyzed: 09/17/12				
pH	8.2		pH Units		8.3			0.969	4.95	

**Batch 2091308 - General Preparation**

<b>Duplicate (2091308-DUP1)</b>		<b>Source: R209071-06</b>		Prepared: 09/13/12		Analyzed: 09/17/12				
Specific Conductance (EC)	2.53	0.00100	mmhos/cm		2.42			4.56	15.5	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/18/12 09:25

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

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

**Batch 2091206 - General Preparation**

**Blank (2091206-BLK1)**

Prepared & Analyzed: 09/12/12

Calcium	ND	2.50	mg/kg							
Magnesium	ND	1.00	"							
Sodium	ND	5.00	"							

**LCS (2091206-BS1)**

Prepared & Analyzed: 09/12/12

Calcium	415	2.50	mg/kg	400		104	70-130			
Magnesium	210	1.00	"	200		105	70-130			
Sodium	822	5.00	"	800		103	70-130			

**LCS Dup (2091206-BSD1)**

Prepared & Analyzed: 09/12/12

Calcium	434	2.50	mg/kg	400		109	70-130	4.36	25	
Magnesium	212	1.00	"	200		106	70-130	1.08	25	
Sodium	839	5.00	"	800		105	70-130	2.02	25	

**Matrix Spike (2091206-MS1)**

Source: R209064-01

Prepared & Analyzed: 09/12/12

Calcium	417	2.50	mg/kg	356	36.2	107	70-130			
Magnesium	203	1.00	"	178	14.6	106	70-130			
Sodium	810	5.00	"	712	79.5	103	70-130			

**Matrix Spike Dup (2091206-MSD1)**

Source: R209064-01

Prepared & Analyzed: 09/12/12

Calcium	414	2.50	mg/kg	356	36.2	106	70-130	0.659	25	
Magnesium	201	1.00	"	178	14.6	105	70-130	0.619	25	
Sodium	807	5.00	"	712	79.5	102	70-130	0.270	25	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/18/12 09:25

### Notes and Definitions

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

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 17, 2012

Rob Rebel

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Miller South #1 CACL

Enclosed are the results of analyses for samples received by Summit Scientific on 09/11/12 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV

Laboratory Director



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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

**Reported:**  
09/17/12 13:22

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01R	R209063-01	Water	09/11/12 09:50	09/11/12 17:05
SB02R	R209063-02	Water	09/11/12 09:30	09/11/12 17:05
SB03R	R209063-03	Water	09/11/12 10:15	09/11/12 17:05
SB04R	R209063-04	Water	09/11/12 11:15	09/11/12 17:05
SB05R	R209063-05	Water	09/11/12 11:40	09/11/12 17:05
SB06R	R209063-06	Water	09/11/12 12:20	09/11/12 17:05
SB07R	R209063-07	Water	09/11/12 14:20	09/11/12 17:05
SB08R	R209063-08	Water	09/11/12 14:00	09/11/12 17:05
SB17	R209063-09	Water	09/11/12 12:00	09/11/12 17:05
SB18	R209063-10	Water	09/11/12 10:45	09/11/12 17:05
SB19	R209063-11	Water	09/11/12 13:00	09/11/12 17:05
SB20	R209063-12	Water	09/11/12 13:20	09/11/12 17:05
SB21	R209063-13	Water	09/11/12 13:40	09/11/12 17:05

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

R209063.1

# Summit Scientific

S:

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9910 • 303-277-9531 Fax

Page 1 of 2

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 433-9788  
Sample Name: M. BRUCE

Project Manager: Rob Rebel  
E-Mail: rob@summit-sc.com  
Project Name: Miller South #1 CACL  
Project Number: NEP0901

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:			Special Instructions					
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Container Serial #	Other (Specify)	DRO		GBTEX	BTEX	PH / EC	SAR	Table 910.1 metals
5601R	9/11/12	0950	4		X													
5602R		0950																
5603R		1015																
5604R		1115																
5605R		1440																
5606R		1720																
5607R		1420																
5608R		1400																
5617		1200																
5618		1045																
Requisitioned by: <u>MTB</u>				Date/Time:	Received by: <u>[Signature]</u>				Date/Time:	Turn Around Time (Check):				Notes:				
				9/11/12 1615					9/11/12 1745	72 Hours Standard				<u>MB</u>				
Requisitioned by:				Date/Time:	Requisitioned by:				Date/Time:	48 Hours				Sample Integrity:				
														Temperature Sign Receipt:				
Requisitioned by:				Date/Time:	Received in Lab by:				Date/Time:	Intact: Yes / No				<u>57</u>				

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB01R**  
**R209063-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.0 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>181</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>372</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1300</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB02R**  
**R209063-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.1 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>214</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>300</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1100</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB03R**  
**R209063-03 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.5 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>278</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>646</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2300</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB04R**  
**R209063-04 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.0 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>488</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>1600</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>4800</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB05R**  
**R209063-05 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.8 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>291</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>1060</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>3000</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB06R**  
**R209063-06 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>186</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>325</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1200</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB07R**  
**R209063-07 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.9 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>773</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>896</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>3400</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB08R**  
**R209063-08 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>2140</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>500</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1600</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB17**  
**R209063-09 (Water)**

**Summit Scientific**

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		78.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		88.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>237</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>584</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>2100</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB18**  
**R209063-10 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.2 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>290</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>920</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>3000</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB19**  
**R209063-11 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.8 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		92.2 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>196</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>317</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1300</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB20**  
**R209063-12 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.7 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>183</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>180</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1000</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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4600 West 60th Avenue  
Arvada CO, 80003

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**SB21**  
**R209063-13 (Water)**

**Summit Scientific**

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

Date Sampled: **09/11/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2091214	09/12/12	09/13/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/11/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.3 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		104 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	50.1-150		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **09/11/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Chloride</b>	<b>162</b>	10.0	mg/L	10	2091201	09/12/12	09/13/12	EPA 300.0	

Date Sampled: **09/11/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sulfate</b>	<b>490</b>	10.0	"	"	"	"	"	"	

**Miscellaneous Physical/Conventional Chemistry Parameters**

Date Sampled: **09/11/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Dissolved Solids</b>	<b>1200</b>	1.0	mg/L	1	2091408	09/14/12	09/17/12	TDS Meter	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 2091214 - EPA 5030 Water MS**

**Blank (2091214-BLK1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.8	49.7-150			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	51-150			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	50.1-150			

**LCS (2091214-BS1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Benzene	47.0	1.0	ug/l	50.0		94.0	51-132			
Toluene	46.1	1.0	"	50.0		92.3	51-138			
Ethylbenzene	47.0	1.0	"	50.0		94.0	58-146			
m,p-Xylene	93.0	2.0	"	100		93.0	57-144			
o-Xylene	47.2	1.0	"	50.0		94.4	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3		100	51-150			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	50.1-150			

**LCS Dup (2091214-BSD1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Benzene	47.2	1.0	ug/l	50.0		94.4	51-132	0.425	17	
Toluene	47.4	1.0	"	50.0		94.8	51-138	2.69	17	
Ethylbenzene	49.2	1.0	"	50.0		98.3	58-146	4.43	16	
m,p-Xylene	96.0	2.0	"	100		96.0	57-144	3.24	16	
o-Xylene	49.2	1.0	"	50.0		98.4	53-146	4.15	15	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.2		100	49.7-150			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.7	50.1-150			

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

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

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

**Batch 2091214 - EPA 5030 Water MS**

<b>Matrix Spike (2091214-MS1)</b>	<b>Source: R209042-01</b>			Prepared: 09/12/12		Analyzed: 09/13/12	
Benzene	46.5	1.0	ug/l	50.0	ND	93.1	34-141
Toluene	49.1	1.0	"	50.0	ND	98.1	27-151
Ethylbenzene	48.1	1.0	"	50.0	ND	96.2	29-160
m,p-Xylene	95.3	2.0	"	100	ND	95.3	20-166
o-Xylene	47.5	1.0	"	50.0	ND	95.0	33-159
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.1</i>		<i>"</i>	<i>13.2</i>		<i>99.3</i>	<i>49.7-150</i>
<i>Surrogate: Toluene-d8</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>51-150</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.4</i>	<i>50.1-150</i>

<b>Matrix Spike Dup (2091214-MSD1)</b>	<b>Source: R209042-01</b>			Prepared: 09/12/12		Analyzed: 09/13/12			
Benzene	46.9	1.0	ug/l	50.0	ND	93.8	34-141	0.749	32
Toluene	46.3	1.0	"	50.0	ND	92.7	27-151	5.70	25
Ethylbenzene	47.6	1.0	"	50.0	ND	95.2	29-160	1.04	50
m,p-Xylene	94.2	2.0	"	100	ND	94.2	20-166	1.09	36
o-Xylene	48.5	1.0	"	50.0	ND	97.0	33-159	2.08	26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.1</i>		<i>"</i>	<i>13.2</i>		<i>99.1</i>	<i>49.7-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>99.0</i>	<i>51-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.1</i>	<i>50.1-150</i>		

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

Reported:  
09/17/12 13:22

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch 2091201 - General Preparation**

**Blank (2091201-BLK1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	"							

**LCS (2091201-BS1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Sulfate	10.8	1.11	mg/L	11.1		97.6	90-110			
Chloride	11.3	1.11	"	11.1		102	90-110			

**LCS Dup (2091201-BSD1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Chloride	11.3	1.11	mg/L	11.1		101	90-110	0.551	10	
Sulfate	10.8	1.11	"	11.1		97.3	90-110	0.400	10	

**Matrix Spike (2091201-MS1)**

Source: R209061-01

Prepared: 09/12/12 Analyzed: 09/13/12

Chloride	200	11.1	mg/L	11.1	188	107	80-120			
Sulfate	596	11.1	"	11.1	581	131	80-120			QM-4X

**Matrix Spike Dup (2091201-MSD1)**

Source: R209061-01

Prepared: 09/12/12 Analyzed: 09/13/12

Sulfate	588	11.1	mg/L	11.1	581	61.1	80-120	1.31	20	QM-4X
Chloride	197	11.1	"	11.1	188	84.7	80-120	1.25	20	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Rob Rebel

**Reported:**  
 09/17/12 13:22

**Miscellaneous Physical/Conventional Chemistry Parameters - Quality Control**  
**Summit Scientific**

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

**Batch 2091408 - General Preparation**

**Blank (2091408-BLK1)**

Prepared: 09/14/12 Analyzed: 09/17/12

Total Dissolved Solids ND 1.0 mg/L

**Blank (2091408-BLK2)**

Prepared: 09/14/12 Analyzed: 09/17/12

Total Dissolved Solids ND 1.0 mg/L

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Rob Rebel

**Reported:**  
09/17/12 13:22

### Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 14, 2012

Steve Kahn

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Miller South #1 CACL

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/12 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV For Ben Shrewsbury  
President / Laboratory Director



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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/14/12 16:45

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB23	R209050-01	Soil	09/10/12 09:00	09/10/12 16:55
SB22	R209050-02	Soil	09/10/12 09:20	09/10/12 16:55
SB10 (2)	R209050-03	Soil	09/10/12 09:40	09/10/12 16:55
SB08R	R209050-04	Soil	09/10/12 10:00	09/10/12 16:55
SB21	R209050-05	Soil	09/10/12 10:20	09/10/12 16:55
SB20	R209050-06	Soil	09/10/12 10:40	09/10/12 16:55
SB19	R209050-07	Soil	09/10/12 11:00	09/10/12 16:55
SB18	R209050-08	Soil	09/10/12 11:30	09/10/12 16:55
SB17	R209050-09	Soil	09/10/12 12:00	09/10/12 16:55
SB05R	R209050-10	Soil	09/10/12 12:30	09/10/12 16:55
SB04R	R209050-11	Soil	09/10/12 13:00	09/10/12 16:55
SB03R	R209050-12	Soil	09/10/12 13:30	09/10/12 16:55
SB01R	R209050-13	Soil	09/10/12 14:00	09/10/12 16:55
SB02R	R209050-14	Soil	09/10/12 14:30	09/10/12 16:55
SB06R	R209050-15	Soil	09/10/12 15:00	09/10/12 16:55

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

R209050.2

# Summit Scientific

S1

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9510 • 303-277-9531 Fax

Page 2 of 2

Client: LT Environmental, Inc. Project Manager: Steve Kahn  
Address: 4600 West 60th Avenue E-Mail: skahn@lternv.com  
City/State/Zip: Arvada, CO 80003 Project Name: Miller South #1 CACL  
Phone: (303) 433-9788 Fax: (303) 433-1432  
Sampler Name: J 5066 Project Number: NEP 0901

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analyze For:						Special Instructions			
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	As, Ba, Cd, Cr, Cr III	Cr VI, Cu, Pb, Hg, Ni	Se, Ag, Zn	SAR, PH EC					
S804R	9-10-12	1100	1	X															
S803K		1530	1	X															
S801K		1400	1	X															
S802K		1430	1	X															
S806R		1500	1	X															

Relinquished by: <i>[Signature]</i>	Date/Time: 9-10-12 5pm	Received by: <i>[Signature]</i>	Date/Time: 9/10/12 11:15 AM	Turn Around Time (Check):	72 Hours <input type="checkbox"/>	Same Day <input type="checkbox"/>	24 Hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 Hours <input type="checkbox"/>					Sample Integrity:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:					Temperature Receipt: 5.0	Impact: Yes No

www.sscscientific.com

*[Signature]*



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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB23**  
**R209050-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		109 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.5 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>1.08</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/14/12 16:45

**SB23**  
**R209050-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.8</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>33.9</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>26.7</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>268</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>8.36</b>		units	"	2091413	09/14/12	09/14/12	"	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB22**  
**R209050-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.4 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.732</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/14/12 16:45

**SB22**  
**R209050-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.9</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>32.8</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>19.4</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>33.4</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.14</b>		units	"	2091413	09/14/12	09/14/12	"	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB10 (2)**  
**R209050-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.4 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		91.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.209</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

Summit Scientific

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB10 (2)**  
**R209050-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.2</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>39.9</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>15.3</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>66.3</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.26</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB08R**  
**R209050-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.180</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

**Reported:**  
09/14/12 16:45

**SB08R**  
**R209050-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.2</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>21.5</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>16.3</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>24.1</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.950</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB21**  
**R209050-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.153</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB21**  
**R209050-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.4</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>72.9</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>25.7</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>39.1</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.00</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB20**  
**R209050-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		109 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.130</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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**Reported:**  
09/14/12 16:45

**SB20**  
**R209050-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.4</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>28.4</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>16.1</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>44.5</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.65</b>		units	"	2091413	09/14/12	09/14/12	"	

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Reported:  
09/14/12 16:45

**SB19**  
**R209050-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/13/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>1.43</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB19**  
**R209050-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.8</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>507</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>55.0</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>397</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>4.47</b>		units	"	2091413	09/14/12	09/14/12	"	

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Reported:  
09/14/12 16:45

**SB18**  
**R209050-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.9 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.461</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Reported:  
09/14/12 16:45

**SB18**  
**R209050-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.3</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>134</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>49.1</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>149</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>2.80</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB17**  
**R209050-09 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.5 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.908</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

Summit Scientific

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/14/12 16:45

**SB17**  
**R209050-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.7</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>125</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>53.8</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>293</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>5.52</b>		units	"	2091413	09/14/12	09/14/12	"	

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

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB05R**  
**R209050-10 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.6 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.36	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/14/12 16:45

**SB05R**  
**R209050-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.8</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>90.5</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>63.4</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>510</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>10.1</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB04R**  
**R209050-11 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.3 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.440</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project Number: NEP 0901  
 Project Manager: Steve Kahn

**Reported:**  
 09/14/12 16:45

**SB04R**  
**R209050-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.1</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>109</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>33.6</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>161</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.46</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB03R**  
**R209050-12 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.0 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.522</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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**Reported:**  
 09/14/12 16:45

**SB03R**  
**R209050-12 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.1</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>32.7</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>13.7</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>83.3</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.09</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB01R**  
**R209050-13 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.220</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project: NEP - Miller South #1 CACL

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**Reported:**  
 09/14/12 16:45

**SB01R**  
**R209050-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.4</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>31.2</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>16.4</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>101</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>3.64</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB02R**  
**R209050-14 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.336</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB02R**  
**R209050-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.6</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>98.4</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>40.3</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>80.2</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>1.72</b>		units	"	2091413	09/14/12	09/14/12	"	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB06R**  
**R209050-15 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2091304	09/13/12	09/14/12	8015 Full Carbon Chain	

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		102 %	30-150		"	"	"	"	

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

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2091303	09/13/12	09/14/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	30-150		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.0910</b>	0.00100	mmhos/cm	1	2091307	09/13/12	09/14/12	SM 2510B	

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Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**SB06R**  
**R209050-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.0</b>		pH Units	1	2091305	09/13/12	09/14/12	EPA 9045B	

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Calcium</b>	<b>23.5</b>	2.50	mg/kg	1	2091205	09/12/12	09/13/12	EPA 6020/Mod. USDA60 6(2, 3A)	
<b>Magnesium</b>	<b>13.2</b>	1.00	"	"	"	"	"	"	
<b>Sodium</b>	<b>13.4</b>	5.00	"	"	"	"	"	"	

Date Sampled: **09/10/12 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.550</b>		units	"	2091413	09/14/12	09/14/12	"	

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Arvada CO, 80003

Project: NEP - Miller South #1 CACL

Project Number: NEP 0901  
Project Manager: Steve Kahn

Reported:  
09/14/12 16:45

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2091304 - EPA 3550A**

**Blank (2091304-BLK1)**

Prepared & Analyzed: 09/13/12

C10-C28 (DRO) ND 50 mg/kg

**LCS (2091304-BS1)**

Prepared & Analyzed: 09/13/12

C10-C28 (DRO) 429 50 mg/kg 501 85.7 73-134

**LCS Dup (2091304-BSD1)**

Prepared & Analyzed: 09/13/12

C10-C28 (DRO) 422 50 mg/kg 501 84.3 73-134 1.67 11

**Matrix Spike (2091304-MS1)**

Source: R209050-01

Prepared: 09/13/12 Analyzed: 09/14/12

C10-C28 (DRO) 433 50 mg/kg 490 46.6 78.8 50-148

**Matrix Spike Dup (2091304-MSD1)**

Source: R209050-01

Prepared: 09/13/12 Analyzed: 09/14/12

C10-C28 (DRO) 407 50 mg/kg 488 46.6 73.7 50-148 6.22 13

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4600 West 60th Avenue  
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09/14/12 16:45

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

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

**Batch 2091303 - EPA 5030 Soil MS**

**Blank (2091303-BLK1)**

Prepared & Analyzed: 09/13/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0368		"	0.0397	92.7	30-150				
Surrogate: Toluene-d8	0.0401		"	0.0400	100	30-150				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400	98.2	30-150				

**LCS (2091303-BS1)**

Prepared & Analyzed: 09/13/12

Benzene	0.106	0.0050	mg/kg	0.100	106	58-130				
Toluene	0.110	0.0050	"	0.100	110	61-134				
Ethylbenzene	0.119	0.0050	"	0.100	119	74-139				
m,p-Xylene	0.235	0.010	"	0.200	118	73-137				
o-Xylene	0.114	0.0050	"	0.100	114	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0397	88.2	30-150				
Surrogate: Toluene-d8	0.0393		"	0.0400	98.2	30-150				
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400	96.8	30-150				

**LCS Dup (2091303-BSD1)**

Prepared & Analyzed: 09/13/12

Benzene	0.116	0.0050	mg/kg	0.100	116	58-130	8.35	13		
Toluene	0.121	0.0050	"	0.100	121	61-134	9.58	16		
Ethylbenzene	0.127	0.0050	"	0.100	127	74-139	6.96	12		
m,p-Xylene	0.251	0.010	"	0.200	126	73-137	6.67	14		
o-Xylene	0.123	0.0050	"	0.100	123	73-141	7.81	12		
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0397	91.4	30-150				
Surrogate: Toluene-d8	0.0400		"	0.0400	100	30-150				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400	97.8	30-150				

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

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

**Batch 2091303 - EPA 5030 Soil MS**

<b>Matrix Spike (2091303-MS1)</b>	<b>Source: R209050-01</b>			<b>Prepared &amp; Analyzed: 09/13/12</b>						
Benzene	0.109	0.0050	mg/kg	0.0996	ND	109	30-131			
Toluene	0.113	0.0050	"	0.0996	ND	113	30-134			
Ethylbenzene	0.118	0.0050	"	0.0996	ND	119	22-153			
m,p-Xylene	0.233	0.010	"	0.199	ND	117	10-159			
o-Xylene	0.115	0.0050	"	0.0996	ND	116	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0379</i>		<i>"</i>	<i>0.0395</i>		<i>96.0</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0398</i>		<i>99.5</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0398</i>		<i>98.6</i>	<i>30-150</i>			

<b>Matrix Spike Dup (2091303-MSD1)</b>	<b>Source: R209050-01</b>			<b>Prepared &amp; Analyzed: 09/13/12</b>						
Benzene	0.110	0.0050	mg/kg	0.0994	ND	110	30-131	0.704	34	
Toluene	0.114	0.0050	"	0.0994	ND	115	30-134	1.12	30	
Ethylbenzene	0.118	0.0050	"	0.0994	ND	118	22-153	0.629	24	
m,p-Xylene	0.233	0.010	"	0.199	ND	117	10-159	0.00623	68	
o-Xylene	0.115	0.0050	"	0.0994	ND	115	31-151	0.589	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0373</i>		<i>"</i>	<i>0.0395</i>		<i>94.6</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0398</i>		<i>97.6</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		<i>"</i>	<i>0.0398</i>		<i>96.4</i>	<i>30-150</i>			

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 09/14/12 16:45

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 2091305 - General Preparation**

<b>Duplicate (2091305-DUP1)</b>	<b>Source: R209050-01</b>			Prepared: 09/13/12		Analyzed: 09/14/12				
pH	8.7		pH Units		8.8			1.14	4.95	

**Batch 2091307 - General Preparation**

<b>Duplicate (2091307-DUP1)</b>	<b>Source: R209050-01</b>			Prepared: 09/13/12		Analyzed: 09/14/12				
Specific Conductance (EC)	1.06	0.00100	mmhos/cm		1.08			1.91	15.5	

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Reported:  
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**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

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

**Batch 2091205 - General Preparation**

**Blank (2091205-BLK1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Calcium	ND	2.50	mg/kg						
Magnesium	ND	1.00	"						
Sodium	ND	5.00	"						

**LCS (2091205-BS1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Calcium	410	2.50	mg/kg	400	102	70-130			
Magnesium	202	1.00	"	200	101	70-130			
Sodium	719	5.00	"	800	89.8	70-130			

**LCS Dup (2091205-BSD1)**

Prepared: 09/12/12 Analyzed: 09/13/12

Calcium	406	2.50	mg/kg	400	101	70-130	0.979	25	
Magnesium	194	1.00	"	200	96.8	70-130	4.19	25	
Sodium	688	5.00	"	800	86.0	70-130	4.37	25	

**Matrix Spike (2091205-MS1)**

Source: R209050-01

Prepared: 09/12/12 Analyzed: 09/13/12

Calcium	398	2.50	mg/kg	358	33.9	102	70-130		
Magnesium	212	1.00	"	179	26.7	103	70-130		
Sodium	925	5.00	"	716	268	91.6	70-130		

**Matrix Spike Dup (2091205-MSD1)**

Source: R209050-01

Prepared: 09/12/12 Analyzed: 09/13/12

Calcium	385	2.50	mg/kg	350	33.9	100	70-130	3.33	25
Magnesium	198	1.00	"	175	26.7	97.9	70-130	6.87	25
Sodium	849	5.00	"	699	268	82.9	70-130	8.60	25

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09/14/12 16:45

### Notes and Definitions

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