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January 9, 2012

Mr. Carlos Lujan, Ph.D.
State of Colorado
Oil & Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

RE: Final Pit Closure Report
Robidoux 13-15 Location
REM No. _____, DOC No. _____

Dear Mr. Lujan:

The following includes a summary of work completed to date/Final Closure Report (Report) for the residual drilling materials pit on the Robidoux 13-15 well location (Robidoux 13-15). This Report is submitted on behalf of Entek GRB, LLC (Entek) in partial fulfillment of the requirements set forth in the approved workplan for the Robidoux 13-15 pit closure dated 9/9/11.

Background

Robidoux 13-15 is located on private land in Section 13, Township 12 North, Range 89 West, Moffat County, Colorado. The Robidoux 13-15 location has been assigned Location ID No.333261.

On September 9, 2011, a Form 27 Site Investigation and Remediation Workplan (Workplan) was submitted to COGCC for closure of the unlined pit at the Robidoux 13-15 well location. The Workplan included: a proposed remediation strategy for the pit; an aerial image of the pit; a schematic illustrating the pit dimensions and initial TPH sample location. COGCC completed its review of the submitted documents on or about September 16th. For reference, a copy of the Workplan is included as Attachment A.

Pit Restoration Plan

As part of the initial investigation activities for the pit closure, a sample of the residual material in the pit was collected and analyzed for total petroleum hydrocarbons (TPH). Figure 2 of the Workplan (Attachment A) illustrates the sample location. The laboratory analysis revealed concentrations of greater than 500 mg/kg of TPH in the residual materials. Accordingly, a proposed remediation strategy was developed that included:

- Removing the residual drilling material from one side of the pit ("excavation side") and placing this material in the other side of the pit ("stockpile side");
- Mixing the residual drilling material with clean soil as it's placed in the stockpile side;
- Visually inspecting the excavation side and mixed material stockpile for evidence of oil staining and collecting discrete samples from the base and sidewalls of the excavation side of the pit; composite samples from the residual material/clean soil mixture in the stockpile side of the pit; and background samples from locations adjacent to the pit;
- Performing laboratory analysis of the discrete, composite and background samples for Table 910-1 parameters and review results;
- If discrete and composite sample results are at or below Table 910-1 parameters and/or otherwise acceptable, placing and compacting the stockpiled materials in the excavation side of the pit;
- Visually inspect the newly excavated side of the pit for evidence of oil staining and collecting discrete samples from the base and sidewalls of this side of the pit;
- Perform laboratory analysis of the discrete samples for Table 910-1 parameters and review results;
- If discrete sample results are at or below Table 910-1 parameters and/or otherwise acceptable, place and compact the stockpiled materials in the remaining side of the pit;
- If discrete sample results are above Table 910-1 parameters and/or otherwise unacceptable, continue excavating soil from areas of the pit where Table 910-1 parameters were above acceptable concentrations and resample for only the parameters that were above acceptable concentrations;
- If pH, SAR, EC levels and arsenic concentrations of the discrete and composite samples are at or below background concentrations, fill the remaining freeboard of the pit (2' minimum) with clean soil and grade the surface to achieve positive drainage;
- If pH, SAR, EC levels and arsenic concentrations of the discrete and composite samples are at or above background concentrations, fill the remaining freeboard of the pit (3' minimum) with clean soil and grade the surface to achieve positive drainage; and
- Once activity at the well location has ceased, revegetate the ground surface in accordance with the Entek NE Sand Wash Basin Storm Water Management Plan requirements.

Pit Restoration Process

As described above, discrete soil samples collected from the excavated pit base and sidewalls and composite residual drilling material samples collected from the stockpile were analyzed for COGCC Table 910-1 parameters. These parameters include the following: total metals; BTEX (benzene, toluene, ethylbenzene, and total xylenes); select semi-volatile organics; total petroleum hydrocarbons (TPH) both volatile (TVPH) and extractable (TEPH); SAR (sodium absorption ratio); EC (electrical conductivity); and pH. Background soil samples were analyzed for total Ar, SAR, EC, and pH.

Laboratory results of the sampling program are included as Attachment B of this Report. These results are listed in the attached tables and summarized below.

- Table 1A (Discrete Soil Samples - Excavation Side 1)
- Table 1B (Composite Residual Drilling Material/Clean Soil Mixture)
- Table 1C (Background Soil Samples)
- Table 2A (Discrete Soil Samples - Excavation Side 2)

On October 21st, four discrete soil samples were collected from the excavation side of the pit (Table 1A) and three composite samples were collected from the residual drilling material/clean soil mixture in the stockpile side of the pit (Table 1B). In addition, two background samples were collected from undisturbed areas adjacent to the pit (Table 1C).

The collected samples were analyzed in accordance with the approved Workplan criteria and the results indicated that concentrations of tested parameters were at or below allowable limits with the exception of TPH and arsenic. As shown in Table 1A, sidewall 1 and base 2 sample locations had TPH concentrations of 550 mg/kg and 2,796 mg/kg, respectively. Arsenic concentrations ranged between 3.07 mg/kg (base 2) to 8.18 mg/kg (base 1). As shown in Table 1B, the residual material/clean soil stockpile had elevated arsenic concentrations ranging between 5.49 mg/kg (composite sample C) and 6.71 (composite sample A). As shown in Table 1C, arsenic concentrations in the background samples were also above COGCC limits (4.99 mg/kg and 3.23 mg/kg for background locations 1 and 2 respectively). Based on these results, additional soil was removed from excavation side 1, inspected for evidence of oil staining and sampled again in the areas where higher concentrations of TPH were found. Once the additional soil had been removed and placed in the residual material/clean soil stockpile, discrete base and sidewall soil samples were collected on November 3rd and analyzed for TPH. The results of this analysis indicated TPH concentrations below the COGCC limit. Upon review of these analytical results, the stockpiled material was placed and compacted in excavation side 1 and excavation side 2 was then prepared and sampled.

On November 7th, four discrete soil samples (2 base, 2 sidewall) were collected from the excavation side 2 of the pit. The collected samples were analyzed in accordance with the approved Workplan criteria and the results indicated that concentrations of tested parameters were at or below allowable limits with the exception of TPH and arsenic. As shown in Table 2A, the base 1 sample location had a TPH concentration of 2,540 mg/kg. Arsenic concentrations ranged between 0.898 mg/kg (base 2) to 4.79 mg/kg (sidewall 1). Based on these results, on November 17th, additional soil was removed from excavation side 1. Once additional soil had been removed, the impacted area was visually inspected for evidence of oil staining prior to sample collection. The discrete soil samples were tested for TPH and the results of this analysis indicated TPH concentrations below the COGCC limit. Upon review of the laboratory analysis, stockpiled material was placed and compacted in excavation side 2. Due to the higher arsenic concentrations, the upper 3 feet of the pit was filled with clean soil. Once the pit was filled to grade, the ground surface was roughened and seeded in accordance with the revegetation requirements specified in the Entek Storm Water Management Plan (SWMP) for its Northeast Sand Wash Basin Development Field.

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Closure of the Robidoux 13-15 pit was completed on or about December 1, 2011. Figure 1 includes a photograph of the closed condition of the pit. Once activity at the well location has ceased, the remaining ground surface will be roughened and broadcast seeded in accordance with the revegetation procedures included in the Entek SWMP. As described in the SWMP, well location restoration and revegetation shall be conducted in a manner consistent with BLM Best Management Practices for Noxious and Invasive Weed Prevention and the SWMP.

We trust that this Closure Report is acceptable and complete. Please contact me should you have any questions or require additional information.

Sincerely,

ENERTIA CONSULTING GROUP, LLC

A handwritten signature in blue ink, appearing to read "J. Sean O'Hearn". The signature is fluid and cursive, with a large initial "J" and "S".

J. Sean O'Hearn, P.E., P.G.
Managing Partner

COUNTY ROAD 129

MOFFAT COUNTY

ROUTT COUNTY



FINAL

ROBIDOUX 13-15 PIT

1:2

GRAVEL ACCESS ROAD



SIDE 1



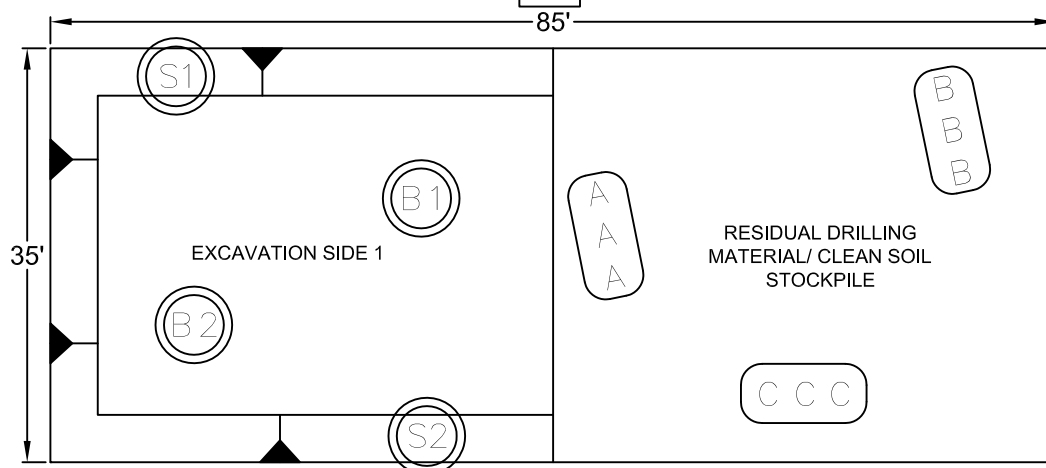
SIDE 2

N.T.S.

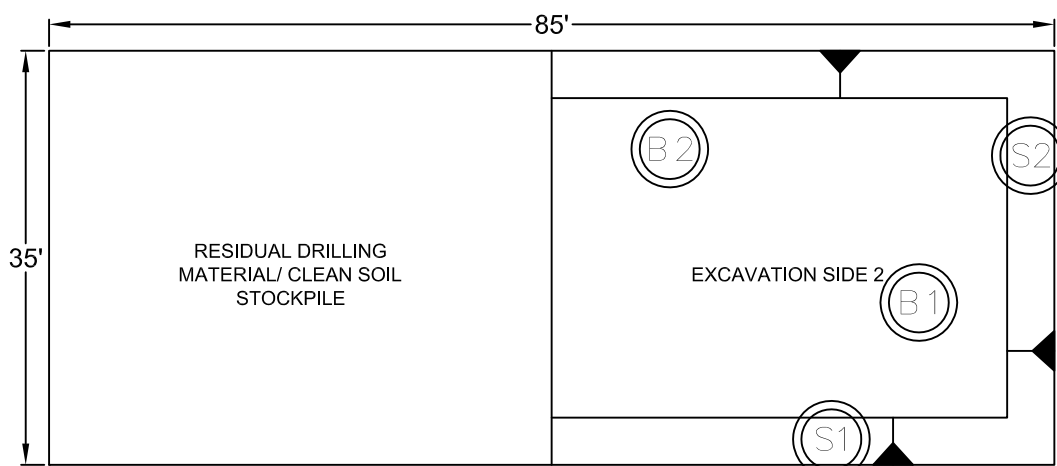
FIGURE 1
ENTEK GRB
ROBIDOUX 13-15 PIT
SLATER DOME FIELD
DECEMBER 19, 2011

2

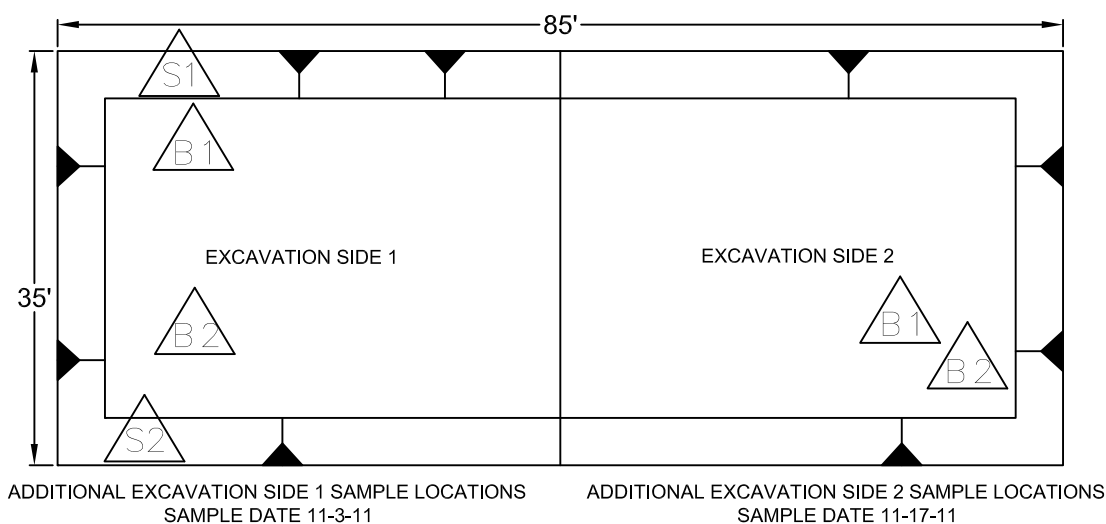
1



EXCAVATION SIDE 1 AND STOCKPILE SAMPLE LOCATIONS
SAMPLE DATE 10-21-11



EXCAVATION SIDE 2 SAMPLE LOCATIONS
SAMPLE DATE 11-7-11



ADDITIONAL EXCAVATION SIDE 1 SAMPLE LOCATIONS
SAMPLE DATE 11-3-11

ADDITIONAL EXCAVATION SIDE 2 SAMPLE LOCATIONS
SAMPLE DATE 11-17-11

LEGEND





-  PIT SAMPLE LOCATION (DISCRETE)
-  RESIDUAL MATERIAL SAMPLE LOCATION (COMPOSITE)
-  BACKGROUND SAMPLE LOCATION
-  ADDITIONAL SAMPLE LOCATIONS (DISCRETE FOR TPH ONLY)

FIGURE 2
ROBIDOUX 13-15
SLATER DOME FIELD
DECEMBER 22, 2011

Table 1A - Robidoux 13-15 Discrete Soil Samples - Excavation Side 1
Sample Date - October 21, 2011

Contaminant of Concern	COGCC Limit	Sidewall 1	Sidewall 2	Base 1	Base 2
Organic Compounds					
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	550 mg/kg	ND	ND	2796.4 mg/kg (see Note 1)
Benzene	0.17 mg/kg	ND	ND	ND	ND
Toluene	85 mg/kg	ND	ND	0.011 mg/kg	ND
Ethylbenzene	100 mg/kg	ND	ND	ND	ND
Xylenes (total)	175 mg/kg	ND	ND	ND	ND
Acenaphthene	1,000 mg/kg	ND	ND	ND	ND
Anthracene	1,000 mg/kg	0.0091 mg/kg	0.0326 mg/kg	0.018 mg/kg	0.0298 mg/kg
Benzo(A)anthracene	0.22 mg/kg	0.0202 mg/kg	0.0339 mg/kg	0.0215 mg/kg	0.0249 mg/kg
Benzo(B)fluoranthene	0.22 mg/kg	0.0095 mg/kg	0.0147 mg/kg	0.0114 mg/kg	0.118 mg/kg
Benzo(K)fluoranthene	2.2 mg/kg	ND	ND	ND	0.098 mg/kg
Benzo(A)pyrene	0.022 mg/kg	ND	ND	ND	0.028 mg/kg
Chrysene	22 mg/kg	0.0211 mg/kg	0.0352 mg/kg	0.0223 mg/kg	ND
Dibenzo(A,H)anthracene	0.022 mg/kg	ND	ND	ND	0.0192 mg/kg
Fluoranthene	1,000 mg/kg	0.0055 mg/kg	0.0114 mg/kg	0.00929 mg/kg	0.157 mg/kg
Fluorene	1,000 mg/kg	ND	0.0083 mg/kg	0.00549 mg/kg	0.0074 mg/kg
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg	ND	ND	ND	0.0389 mg/kg
Napthalene	23 mg/kg	ND	0.0060 mg/kg	0.00939 mg/kg	ND
Pyrene	1,000 mg/kg	0.0377 mg/kg	0.0676 mg/kg	0.045 mg/kg	0.998 mg/kg
Other Parameters					
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	1.13	0.748	1.3	0.645
Sodium Adsorption Ratio (SAR)	<12	3.58	1.65	4.57	2.76
pH	6 to 9	9	8.4	10	8.9

Table 1A (Cont'd) - Robidoux 13-15 Discrete Soil Samples - Excavation Side 1
Sample Date - October 21, 2011

Contaminant of Concern	COGCC Limit	Sidewall 1	Sidewall 2	Base 1	Base 2
Elements/Metals					
Arsenic	0.39 mg/kg	7.11 mg/kg	5.23 mg/kg	8.18 mg/kg	3.07 mg/kg
Barium (LDNR True Total Barium)	15,000 mg/kg	331 mg/kg	449 mg/kg	492 mg/kg	165 mg/kg
Boron (Hot Water Soluble)	2 mg/l	NTF	NTF	NTF	NTF
Cadmium	70 mg/kg	0.201 mg/kg	0.195 mg/kg	0.492 mg/kg	ND
Chromium (total)	120,000 mg/kg	18.1 mg/kg	15.1 mg/kg	17.4 mg/kg	4.57 mg/kg
Chromium (VI)	23 mg/kg	0.6 mg/kg	ND	ND	0.65 mg/kg
Copper	3,100 mg/kg	14.6 mg/kg	13.0 mg/kg	16.6 mg/kg	3.13 mg/kg
Lead (inorganic)	400 mg/kg	15.5 mg/kg	11.6 mg/kg	9.63 mg/kg	10.6 mg/kg
Mercury	23 mg/kg	0.0542 mg/kg	0.0574 mg/kg	ND	0.0723 mg/kg
Nickel (soluble salts)	1,600 mg/kg	17.3 mg/kg	15.6 mg/kg	23.4 mg/kg	ND
Selenium	390 mg/kg	0.445 mg/kg	0.433 mg/kg	0.692 mg/kg	0.222 mg/kg
Silver	390 mg/kg	ND	ND	ND	ND
Zinc	23,000 mg/kg	52.2 mg/kg	47.8 mg/kg	51.6 mg/kg	11.0 mg/kg

Note 1: Additional soil in the vicinity of the Sidewall 1 and Base 2 sample locations was removed and 2 additional soil samples were collected at each location and sampled for TPH on 11/3/11. TPH was not detected in either sample.

Table 1B - Robidoux 13-15 Composite Fill Material Samples
Sample Date - October 21, 2011

Contaminant of Concern	COGCC Limit	Composite A	Composite B	Composite C
Organic Compounds				
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	500 mg/kg	71 mg/kg	207 mg/kg
Benzene	0.17 mg/kg	ND	ND	ND
Toluene	85 mg/kg	ND	ND	ND
Ethylbenzene	100 mg/kg	ND	ND	ND
Xylenes (total)	175 mg/kg	ND	ND	ND
Acenaphthene	1,000 mg/kg	0.322 mg/kg	ND	ND
Anthracene	1,000 mg/kg	0.23 mg/kg	0.0693 mg/kg	0.0173 mg/kg
Benzo(A)anthracene	0.22 mg/kg	0.0243 mg/kg	0.0623 mg/kg	0.0224 mg/kg
Benzo(B)fluoranthene	0.22 mg/kg	0.0124 mg/kg	0.0189 mg/kg	0.0121 mg/kg
Benzo(K)fluoranthene	2.2 mg/kg	ND	0.0171 mg/kg	ND
Benzo(A)pyrene	0.022 mg/kg	ND	0.0086 mg/kg	ND
Chrysene	22 mg/kg	0.0252 mg/kg	0.0646 mg/kg	0.0232 mg/kg
Dibenzo(A,H)anthracene	0.022 mg/kg	ND	ND	ND
Fluoranthene	1,000 mg/kg	0.0122 mg/kg	0.0334 mg/kg	0.0141 mg/kg
Fluorene	1,000 mg/kg	0.0139 mg/kg	0.0289 mg/kg	0.0078 mg/kg
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg	ND	ND	ND
Napthalene	23 mg/kg	0.00541 mg/kg	0.0192 mg/kg	0.0051 mg/kg
Pyrene	1,000 mg/kg	0.0565 mg/kg	0.146 mg/kg	0.0594 mg/kg
Other Parameters				
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	0.482	0.505	0.64
Sodium Adsorption Ratio (SAR)	<12	1.1	1.36	1.77
pH	6 to 9	8.1	8.3	8.4

Table 1B (Cont'd) - Robidoux 13-15 Composite Fill Material Samples**Sample Date - October 21, 2011**

Contaminant of Concern	COGCC Limit	Composite A	Composite B	Composite C
Elements/Metals				
Arsenic	0.39 mg/kg	6.71 mg/kg	6.21 mg/kg	5.49 mg/kg
Barium (LDNR True Total Barium)	15,000 mg/kg	325 mg/kg	452 mg/kg	447 mg/kg
Boron (Hot Water Soluble)	2 mg/l	NTF	NTF	NTF
Cadmium	70 mg/kg	0.239 mg/kg	0.273 mg/kg	0.222 mg/kg
Chromium (total)	120,000 mg/kg	12.9 mg/kg	13.6 mg/kg	14.3 mg/kg
Chromium (VI)	23 mg/kg	1.2 mg/kg	1.1 mg/kg	1.0 mg/kg
Copper	3,100 mg/kg	13.3 mg/kg	14.4 mg/kg	13.0 mg/kg
Lead (inorganic)	400 mg/kg	21.1 mg/kg	13.5 mg/kg	14.4 mg/kg
Mercury	23 mg/kg	0.09 mg/kg	0.0621 mg/kg	0.0848 mg/kg
Nickel (soluble salts)	1,600 mg/kg	10.3 mg/kg	15.9 mg/kg	14.0 mg/kg
Selenium	390 mg/kg	0.533 mg/kg	0.497 mg/kg	0.42 mg/kg
Silver	390 mg/kg	0.117 mg/kg	0.0767 mg/kg	ND
Zinc	23,000 mg/kg	48.2 mg/kg	63.8 mg/kg	56.3 mg/kg

Table 1C - Robidoux 13-15 Background Soil Samples**Sample Date - October 21, 2011**

Contaminant of Concern	COGCC Limit	Location 1	Location 2	
Tested Parameters				
Arsenic (total)	0.39 mg/kg	4.99 mg/kg	3.23 mg/kg	
Sodium Adsorption Ratio (SAR)	<12	0.12	0.02	
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	0.262	0.562	
pH	6 to 9	8.5	6.9	

Table 2A - Robidoux 13-15 Discrete Soil Samples - Excavation Side 2
Sample Date - November 7, 2011

Contaminant of Concern	COGCC Limit	Sidewall 1	Sidewall 2	Base 1	Base 2
Organic Compounds					
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	ND	240 mg/kg	2540 mg/kg (see Note 2)	ND
Benzene	0.17 mg/kg	ND	ND	ND	ND
Toluene	85 mg/kg	ND	ND	ND	ND
Ethylbenzene	100 mg/kg	ND	ND	ND	ND
Xylenes (total)	175 mg/kg	ND	ND	ND	ND
Acenaphthene	1,000 mg/kg	ND	ND	0.00756 mg/kg	ND
Anthracene	1,000 mg/kg	0.031 mg/kg	ND	0.0711 mg/kg	ND
Benzo(A)anthracene	0.22 mg/kg	ND	0.0109 mg/kg	0.0905 mg/kg	0.0219 mg/kg
Benzo(B)fluoranthene	0.22 mg/kg	ND	ND	0.0659 mg/kg	0.0086 mg/kg
Benzo(K)fluoranthene	2.2 mg/kg	0.0119 mg/kg	ND	0.0603 mg/kg	ND
Benzo(A)pyrene	0.022 mg/kg	ND	ND	0.013 mg/kg	ND
Chrysene	22 mg/kg	0.0227 mg/kg	0.0111 mg/kg	0.089 mg/kg	0.0224 mg/kg
Dibenzo(A,H)anthracene	0.022 mg/kg	ND	ND	ND	ND
Fluoranthene	1,000 mg/kg	0.0116 mg/kg	ND	0.0726 mg/kg	0.0106 mg/kg
Fluorene	1,000 mg/kg	0.0141 mg/kg	ND	0.0279 mg/kg	ND
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg	ND	ND	ND	ND
Napthalene	23 mg/kg	0.0189 mg/kg	0.0060 mg/kg	0.0283 mg/kg	ND
Pyrene	1,000 mg/kg	0.0587 mg/kg	0.0299 mg/kg	0.352 mg/kg	0.0605 mg/kg
Other Parameters					
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	0.636	0.399	0.736	0.497
Sodium Adsorption Ratio (SAR)	<12	6.37	0.88	2.89	2.78
pH	6 to 9	8.9	8.7	8.5	8.6

Note 2: Additional soil in the vicinity of the Base 1 sample was removed and 2 additional soil samples were collected and sampled for TPH on 11/17/11. TPH was not detected in either sample.

Table 2A (Cont'd) - Robidoux 13-15 Discrete Soil Samples - Excavation Side 2

Sample Date - November 7, 2011

Contaminant of Concern	COGCC Limit	Sidewall 1	Sidewall 2	Base 1	Base 2
Elements/Metals					
Arsenic	0.39 mg/kg	4.79 mg/kg	3.47 mg/kg	1.82 mg/kg	0.898 mg/kg
Barium (LDNR True Total Barium)	15,000 mg/kg	548 mg/kg	249 mg/kg	296 mg/kg	84 mg/kg
Boron (Hot Water Soluble)	2 mg/l	NTF	NTF	NTF	NTF
Cadmium	70 mg/kg	1.25 mg/kg	0.176 mg/kg	ND	ND
Chromium (total)	120,000 mg/kg	8.97 mg/kg	11.5 mg/kg	4.42 mg/kg	2.37 mg/kg
Chromium (VI)	23 mg/kg	0.73 mg/kg	0.89 mg/kg	1.0 mg/kg	0.71 mg/kg
Copper	3,100 mg/kg	17.9 mg/kg	14.3 mg/kg	5.61 mg/kg	1.73 mg/kg
Lead (inorganic)	400 mg/kg	15.9 mg/kg	12.4 mg/kg	6.71 mg/kg	5.3 mg/kg
Mercury	23 mg/kg	0.0508 mg/kg	ND	0.06 mg/kg	ND
Nickel (soluble salts)	1,600 mg/kg	36.9 mg/kg	14.8 mg/kg	3.8 mg/kg	1.33 mg/kg
Selenium	390 mg/kg	0.256 mg/kg	0.564 mg/kg	0.206	ND
Silver	390 mg/kg	ND	5.08 mg/kg	ND	ND
Zinc	23,000 mg/kg	115 mg/kg	74.6 mg/kg	13.2 mg/kg	ND

ATTACHMENT A

**SITE INVESTIGATION AND REMEDIATION WORKPLAN
RESIDUAL DRILLING MATERIALS PIT
ROBIDOUX 13-15 – LOCATION ID No. 333261**

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

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): Pit Closure

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

OGCC Operator Number: 10323

Name of Operator: Entek GRB, LLC

Address: 535 16th Street, Suite 620

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Kristen Stocks

No: (307) 200-1930

Fax: (866) 435-9424

API Number: 05-081-07233

County: Moffatt

Facility Name: Slater Dome

Facility Number: 77551

Well Name: Robidoux

Well Number: 13-15

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSE 13, 12N, 89W, 6th Latitude: 40.9898 Longitude: -107.3248

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Drilling fluid with crude oil

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.): undeveloped rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:

Potential receptors (water wells within 1/4 mi, surface waters, etc.): none

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

Impacted Media (check):

- ☒ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

residual drilling materials contained within unlined pit

How Determined:

visual observation and drilling materials sample taken

REMEDIATION WORKPLAN

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

Residual drilling fluid materials are present in the unlined pit located on the Robidoux 13-15 well pad (see Figure 1 for approximate pit location). A sample of the residual material has been obtained and tested for total petroleum hydrocarbons (TPH). Figure 2 illustrates the sample location. The sample analysis results indicate concentrations of greater than 500 mg/kg of TPH exist in the residual materials. Accordingly, the proposed initial action will be to uniformly mix the residual drilling materials with clean fill obtained from on-site borrow sources; to reduce TPH concentrations and other Table 910-1 parameter concentrations to acceptable levels and use the mixed material to backfill the pit.

Describe how source is to be removed:

To minimize the impact of the TPH contaminated material on areas adjacent to the Robidoux 13-15 pit, an earthen berm, constructed of clean, compactable fill material will be installed at, or near the midpoint of the pit. Once the earthen berm is in place, the residual drilling material from one side of the pit (excavation side) will be excavated and placed in the other side of the pit (stockpile side). Once in the stockpile side of the pit, all residual drilling materials will be uniformly mixed with clean soils.

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.:

Once the residual material has been removed from the excavation side, the excavation side bottom and sidewalls will be visually inspected for oil staining. Any visually identified oil stained materials will be excavated, placed in the stockpile side and mixed with clean soil. Confirmatory soil samples (discrete) will be collected from 2 locations in the excavation side and sampled for Table 910-1 parameters. In addition, 2 confirmatory soil samples (composite) of the uniformly mixed material located in the stockpile side will be sampled for Table 910-1 parameters. If all sample results are at or below Table 910-1 soil standards, stockpiled material will be excavated, placed and compacted in the excavation side. Once all material has been removed from the stockpile side, confirmatory soil samples (discrete) will be collected from 2 locations in the pit bottom and sampled for Table 910-1 parameters. If all sample results are at or below Table 910-1 soil standards, the stockpile side will be backfilled.

Submit Page 2 with Page 1



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

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

Depth to groundwater in the vicinity of the Robidoux 13-15 pit location is greater than 50'. Accordingly, it is unlikely that groundwater has been impacted by the residual drilling materials.

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.

Once the pit has been backfilled with the mixed residual drilling material/clean fill, it is anticipated that clean fill only will be placed in the upper two feet of the pit and the surface elevation of the backfilled pit will be shaped and graded to match the existing grade around the perimeter of the pit. The surface will be roughened and broadcast seeded in accordance with revegetation procedures included in the Entek Storm Water Management Plan (SWMP). Well location restoration and revegetation shall be conducted in a manner consistent with BLM Best Management Practices for Noxious and Invasive Weed Prevention and the SWMP.

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:

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

Mixed with site soils and used to backfill pit.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 8/1 Date Site Investigation Completed: 8/31 Date Remediation Plan Submitted: 9/9
Remediation Start Date: 9/14 Anticipated Completion Date: 10/15 Actual Completion Date: _____

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

Print Name: Tim Hopkins

Signed: _____

Title: Regional Manager

Date: 9/9/11

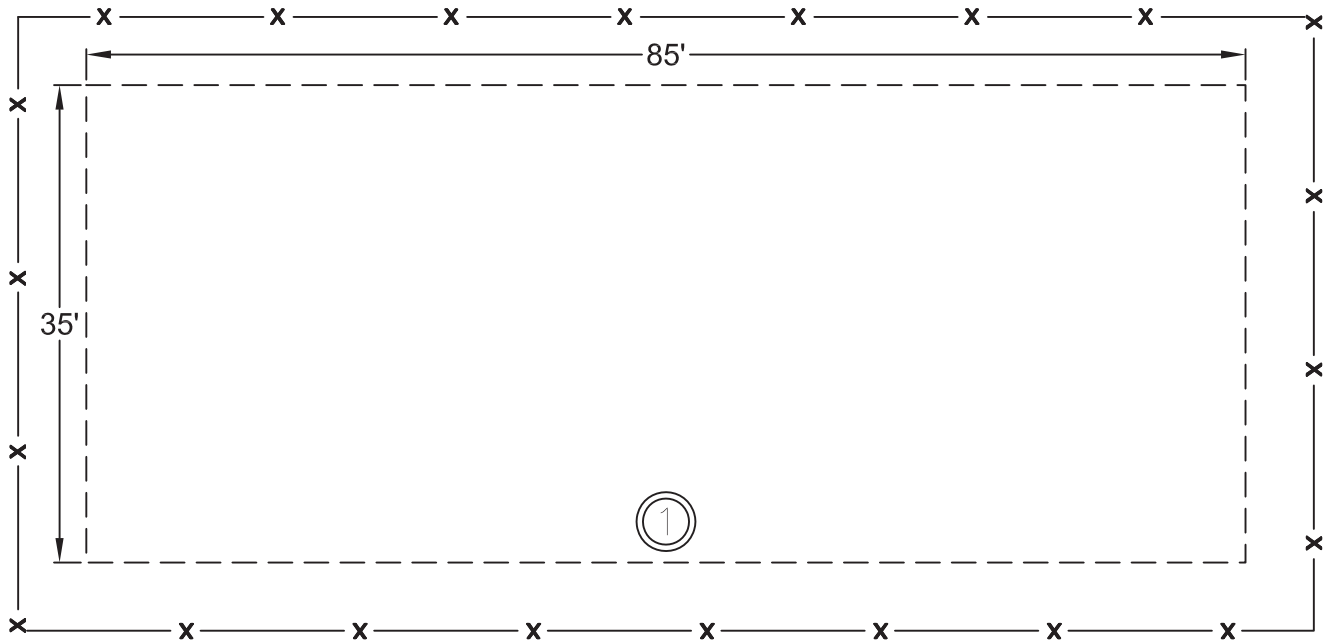
OGCC Approved: _____ Title: _____ Date: _____



FIGURE 1
ROBIDOUX 13-15
SLATER DOME FIELD
SEPTEMBER 9, 2011



N.T.S.



LEGEND

- | | |
|--|---------------------|
| | PIT SAMPLE LOCATION |
| | PIT PERIMETER |
| | FENCE |

FIGURE 2
ROBIDOUX 13-15
SLATER DOME FIELD
SEPTEMBER 9, 2011

ATTACHMENT B

**ANALYTICAL RESULTS
RESIDUAL DRILLING MATERIALS PIT
ROBIDOUX 13-15 – LOCATION ID No. 333261**

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

November 04, 2011

Kristen Stocks
Entek GRB LLC
535 16th Street Suite 620
Denver, CO 80202
RE: Robidoux Pitt 13-15

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/11 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sidewall 1	R110146-01	Soil	10/21/11 11:00	10/24/11 11:45
Sidewall 2	R110146-02	Soil	10/21/11 11:00	10/24/11 11:45
Base 1	R110146-03	Soil	10/21/11 11:00	10/24/11 11:45
Base 2	R110146-04	Soil	10/21/11 11:00	10/24/11 11:45
Composite A	R110146-05	Soil	10/21/11 11:00	10/24/11 11:45
Composite B	R110146-06	Soil	10/21/11 11:00	10/24/11 11:45
Composite C	R110146-07	Soil	10/21/11 11:00	10/24/11 11:45
Location 1	R110146-08	Soil	10/21/11 11:00	10/24/11 11:45
Location 2	R110146-09	Soil	10/21/11 11:00	10/24/11 11:45

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 1
R110146-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	400	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	150	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/26/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		113 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 1
R110146-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	9.09	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	20.4	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	9.48	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	21.1	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	5.50	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	9.33	5.00	"	"	"	"	"	"	
Pyrene	37.7	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		95.5 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.2 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.7 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		84.5 %	41.7-139		"	"	"	"	

Calculated Analytes

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 1
R110146-01 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	17.5	0.430	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.11	0.836	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	331	41.8	"	"	"	"	"	"	
Cadmium	0.201	0.0836	"	1	"	"	"	"	
Chromium	18.1	0.836	"	10	"	"	"	"	
Copper	14.6	4.18	"	"	"	"	"	"	
Lead	15.5	4.18	"	"	"	"	"	"	
Nickel	17.3	4.18	"	"	"	"	"	"	
Selenium	0.445	0.0836	"	1	"	"	"	"	
Silver	ND	0.0836	"	"	"	"	"	"	
Zinc	52.2	41.8	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0542	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 1
R110146-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	1.13	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.0		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	0.6	0.43	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	774	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	82.5	1.00	"	"	"	"	"	"	
Sodium	392	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.58		units	"	1103003	10/30/11	10/30/11	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 2
R110146-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/26/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 2
R110146-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	32.6	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	33.9	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	14.7	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	6.75	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	35.2	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	11.4	5.00	"	"	"	"	"	"	
Fluorene	8.32	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	6.00	5.00	"	"	"	"	"	"	
Phenanthrene	32.4	5.00	"	"	"	"	"	"	
Pyrene	67.6	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5	96.9 %	21.8-138			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	99.7 %	31.2-131			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	112 %	44.5-144			"	"	"	"	
Surrogate: Terphenyl-d14	103 %	41.7-139			"	"	"	"	

Calculated Analytes

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 2
R110146-02 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	14.6	0.450	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.23	0.883	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	449	44.2	"	"	"	"	"	"	
Cadmium	0.195	0.0883	"	1	"	"	"	"	
Chromium	15.1	0.883	"	10	"	"	"	"	
Copper	13.0	4.42	"	"	"	"	"	"	
Lead	11.9	4.42	"	"	"	"	"	"	
Nickel	15.6	4.42	"	"	"	"	"	"	
Selenium	0.433	0.0883	"	1	"	"	"	"	
Silver	ND	0.0883	"	"	"	"	"	"	
Zinc	47.8	44.2	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0574	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Sidewall 2
R110146-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.748	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.45	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	543	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	90.2	1.00	"	"	"	"	"	"	
Sodium	158	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.65		units	"	1103003	10/30/11	10/30/11	"	

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 1
R110146-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/26/11	EPA 8260B	
Toluene	0.011	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.6 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	78.4-125		"	"	"	"	

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 1
R110146-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	18.0	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	21.5	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	11.4	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	5.36	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	22.3	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	9.29	5.00	"	"	"	"	"	"	
Fluorene	5.49	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	9.39	5.00	"	"	"	"	"	"	
Phenanthrene	18.3	5.00	"	"	"	"	"	"	
Pyrene	45.0	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		98.3 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.1 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.4 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		96.9 %	41.7-139		"	"	"	"	

Calculated Analytes

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 1
R110146-03 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	17.0	0.420	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.18	0.810	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	492	40.5	"	"	"	"	"	"	
Cadmium	0.492	0.0810	"	1	"	"	"	"	
Chromium	17.4	0.810	"	10	"	"	"	"	
Copper	16.6	4.05	"	"	"	"	"	"	
Lead	9.63	4.05	"	"	"	"	"	"	
Nickel	23.4	4.05	"	"	"	"	"	"	
Selenium	0.692	0.0810	"	1	"	"	"	"	
Silver	ND	0.0810	"	"	"	"	"	"	
Zinc	51.6	40.5	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 1
R110146-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	1.30	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	10		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.42	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	610	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	47.4	1.00	"	"	"	"	"	"	
Sodium	435	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.57		units	"	1103003	10/30/11	10/30/11	"	

Summit Scientific

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535 16th Street Suite 620
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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 2
R110146-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	2900	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	890	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/26/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.4	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		94.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 2
R110146-04 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	5.89	5.00	"	"	"	"	"	"	
Anthracene	29.8	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	24.9	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	118	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	97.6	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	98.2	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	28.2	5.00	"	"	"	"	"	"	
Chrysene	ND	500	"	100	"	"	10/29/11	"	
Dibenz (a,h) anthracene	19.2	10.0	"	1	"	"	10/28/11	"	
Fluoranthene	157	5.00	"	"	"	"	"	"	
Fluorene	7.44	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	38.9	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	28.8	5.00	"	"	"	"	"	"	
Pyrene	998	500	"	100	"	"	10/29/11	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		214 %	21.8-138		"	"	10/28/11	"	S-02
Surrogate: 2-Fluorobiphenyl		149 %	31.2-131		"	"	"	"	S-02
Surrogate: 2,4,6-Tribromophenol		116 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		131 %	41.7-139		"	"	"	"	

Calculated Analytes

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 2
R110146-04 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	3.92	0.430	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.07	0.716	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	165	35.8	"	"	"	"	"	"	
Cadmium	ND	0.0716	"	1	"	"	"	"	
Chromium	4.57	0.716	"	10	"	"	"	"	
Copper	3.13	0.358	"	1	"	"	"	"	
Lead	10.6	3.58	"	10	"	"	"	"	
Nickel	ND	3.58	"	"	"	"	"	"	
Selenium	0.222	0.0716	"	1	"	"	"	"	
Silver	ND	0.0716	"	"	"	"	"	"	
Zinc	11.0	3.58	"	"	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0723	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Base 2
R110146-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.645	0.00100	mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.9		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	0.65	0.43	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	247	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	39.7	1.00	"	"	"	"	"	"	
Sodium	177	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entek GRB LLC 535 16th Street Suite 620 Denver CO, 80202	Project: Robidoux Pitt 13-15 Project Number: [none] Project Manager: Kristen Stocks	Reported: 11/04/11 14:54
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Base 2
R110146-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis							
Sodium Adsorption Ratio	2.76	units	1	1103003	10/30/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite A
R110146-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	380	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	120	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/27/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		100 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite A
R110146-05 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	32.2	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	24.3	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	12.4	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	6.48	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	25.2	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	12.2	5.00	"	"	"	"	"	"	
Fluorene	13.9	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	5.41	5.00	"	"	"	"	"	"	
Phenanthrene	32.4	5.00	"	"	"	"	"	"	
Pyrene	56.5	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		92.6 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		104 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.1 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		109 %	41.7-139		"	"	"	"	

Calculated Analytes

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite A
R110146-05 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	11.7	0.460	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.71	0.677	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	325	33.8	"	"	"	"	"	"	
Cadmium	0.239	0.0677	"	1	"	"	"	"	
Chromium	12.9	0.677	"	10	"	"	"	"	
Copper	13.3	3.38	"	"	"	"	"	"	
Lead	21.1	3.38	"	"	"	"	"	"	
Nickel	10.3	3.38	"	"	"	"	"	"	
Selenium	0.533	0.0677	"	1	"	"	"	"	
Silver	0.117	0.0677	"	"	"	"	"	"	
Zinc	48.2	33.8	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0908	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite A
R110146-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.482	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.1		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	1.2	0.46	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	296	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	53.9	1.00	"	"	"	"	"	"	
Sodium	78.4	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10		units	"	1103003	10/30/11	10/30/11	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite B
R110146-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	71	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/27/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	78.4-125		"	"	"	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite B
R110146-06 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	69.3	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	62.3	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	18.9	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	17.1	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	13.6	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	8.59	5.00	"	"	"	"	"	"	
Chrysene	64.6	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	33.4	5.00	"	"	"	"	"	"	
Fluorene	28.9	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	19.2	5.00	"	"	"	"	"	"	
Phenanthrene	70.2	5.00	"	"	"	"	"	"	
Pyrene	146	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		97.4 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.7 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		121 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		105 %	41.7-139		"	"	"	"	

Calculated Analytes

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite B
R110146-06 (Soil)

Summit Scientific

Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	12.5	0.430	mg/kg	1	110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.21	0.748	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	452	37.4	"	"	"	"	"	"	
Cadmium	0.273	0.0748	"	1	"	"	"	"	
Chromium	13.6	0.748	"	10	"	"	"	"	
Copper	14.4	3.74	"	"	"	"	"	"	
Lead	13.5	3.74	"	"	"	"	"	"	
Nickel	15.9	3.74	"	"	"	"	"	"	
Selenium	0.497	0.0748	"	1	"	"	"	"	
Silver	0.0767	0.0748	"	"	"	"	"	"	
Zinc	63.8	37.4	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0621	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite B
R110146-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.505	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	1.1	0.43	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	339	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	54.8	1.00	"	"	"	"	"	"	
Sodium	102	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36		units	"	1103003	10/30/11	10/30/11	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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11/04/11 14:54

Composite C
R110146-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	130	50	mg/kg	1	1102411	10/24/11	10/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	77	50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1102410	10/24/11	10/27/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	78.4-125		"	"	"	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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Composite C
R110146-07 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1102611	10/26/11	10/28/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	17.3	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	22.4	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	12.1	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	5.99	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	23.2	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	14.1	5.00	"	"	"	"	"	"	
Fluorene	7.80	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	5.05	5.00	"	"	"	"	"	"	
Phenanthrene	17.6	5.00	"	"	"	"	"	"	
Pyrene	59.4	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		102 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		107 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		117 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		108 %	41.7-139		"	"	"	"	

Calculated Analytes

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Composite C
R110146-07 (Soil)

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Calculated Analytes

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	13.3	0.430	mg/kg	1	1110404	10/28/11	11/04/11	Calculation	

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.49	0.816	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020A	
Barium	447	40.8	"	"	"	"	"	"	
Cadmium	0.222	0.0816	"	1	"	"	"	"	
Chromium	14.3	0.816	"	10	"	"	"	"	
Copper	13.0	4.08	"	"	"	"	"	"	
Lead	14.4	4.08	"	"	"	"	"	"	
Nickel	14.0	4.08	"	"	"	"	"	"	
Selenium	0.420	0.0816	"	1	"	"	"	"	
Silver	ND	0.0816	"	"	"	"	"	"	
Zinc	56.3	40.8	"	10	"	"	"	"	

Total Mercury by EPA SW846 Method 7471/7470

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0848	0.0500	mg/kg	1	1102604	10/26/11	10/28/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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11/04/11 14:54

Composite C
R110146-07 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.640	0.00100 mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B
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Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.4		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	1	0.43	mg/kg	1	1110404	10/28/11	11/04/11	3060A/7196 A	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	424	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	72.6	1.00	"	"	"	"	"	"	
Sodium	150	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.77		units	"	1103003	10/30/11	10/30/11	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Location 1
R110146-08 (Soil)

Summit Scientific

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.99	0.675	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.262	0.00100	mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	996	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	126	1.00	"	"	"	"	"	"	
Sodium	14.5	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.120		units	"	1103003	10/30/11	10/30/11	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
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Location 1
R110146-08 (Soil)

Summit Scientific

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

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A handwritten signature in black ink, appearing to be 'MSM'.

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Location 2
R110146-09 (Soil)

Summit Scientific

Total Metals by EPA SW846 Method 6020 - Dry Weight Basis

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.23	0.707	mg/kg	10	1102703	10/28/11	10/30/11	EPA 6020	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0562	0.00100	mmhos/cm	1	1102904	10/29/11	10/29/11	SM 2510B	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.9		pH Units	"	1102905	10/29/11	10/29/11	EPA 9045B	

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

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.3	5.00	mg/kg	1	1102701	10/27/11	10/30/11	EPA 6020/USDA60 6(2, 3A)	
Magnesium	12.2	1.00	"	"	"	"	"	"	
Sodium	ND	5.00	"	"	"	"	"	"	

Date Sampled: 10/21/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0200		units	"	1103003	10/30/11	10/30/11	"	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Location 2
R110146-09 (Soil)

Summit Scientific

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

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A handwritten signature in black ink, appearing to be 'MSM'.

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1102411 - EPA 3550A

Blank (1102411-BLK1)

Prepared & Analyzed: 10/24/11

C10-C28 (TEPH-DRO) ND 50 mg/kg

C28-C36 (TEPH-ORO) ND 50 "

Surrogate: o-Terphenyl 12.6 " 12.5 100 88.8-124

LCS (1102411-BS1)

Prepared & Analyzed: 10/24/11

C10-C28 (TEPH-DRO) 527 50 mg/kg 501 105 85-129 11.8

LCS Dup (1102411-BSD1)

Prepared & Analyzed: 10/24/11

C10-C28 (TEPH-DRO) 493 50 mg/kg 501 98.4 85-129 6.57 11.8

Matrix Spike (1102411-MS1)

Source: R110145-01

Prepared & Analyzed: 10/24/11

C10-C28 (TEPH-DRO) 485 50 mg/kg 501 ND 96.7 77.3-134 8.39

Matrix Spike Dup (1102411-MSD1)

Source: R110145-01

Prepared & Analyzed: 10/24/11

C10-C28 (TEPH-DRO) 496 50 mg/kg 501 ND 98.9 77.3-134 2.26 8.39

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

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 1102410 - EPA 5030 Soil MS

Blank (1102410-BLK1)

Prepared: 10/24/11 Analyzed: 10/25/11

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	0.0317	"	0.0400	79.2	67.4-143
Surrogate: Toluene-d8	0.0366	"	0.0400	91.5	77.3-114
Surrogate: 4-Bromofluorobenzene	0.0379	"	0.0400	94.6	78.4-125

LCS (1102410-BS1)

Prepared: 10/24/11 Analyzed: 10/25/11

Benzene	0.0729	0.0050	mg/kg	0.100	72.9	61-139	11.1
Toluene	0.0983	0.0050	"	0.100	98.3	64-132	10.9
Ethylbenzene	0.0992	0.0050	"	0.100	99.2	68.7-135	20
m,p-Xylene	0.214	0.010	"	0.200	107	70.4-129	20
o-Xylene	0.102	0.0050	"	0.100	102	66.9-126	20

Surrogate: 1,2-Dichloroethane-d4	0.0316	"	0.0400	79.1	67.4-143
Surrogate: Toluene-d8	0.0363	"	0.0400	90.7	77.3-114
Surrogate: 4-Bromofluorobenzene	0.0368	"	0.0400	92.1	78.4-125

LCS Dup (1102410-BSD1)

Prepared: 10/24/11 Analyzed: 10/25/11

Benzene	0.0722	0.0050	mg/kg	0.100	72.2	61-139	0.951	11.1
Toluene	0.0964	0.0050	"	0.100	96.4	64-132	1.97	10.9
Ethylbenzene	0.0975	0.0050	"	0.100	97.5	68.7-135	1.77	20
m,p-Xylene	0.210	0.010	"	0.200	105	70.4-129	1.98	20
o-Xylene	0.0996	0.0050	"	0.100	99.6	66.9-126	1.94	20

Surrogate: 1,2-Dichloroethane-d4	0.0308	"	0.0400	77.0	67.4-143
Surrogate: Toluene-d8	0.0358	"	0.0400	89.5	77.3-114
Surrogate: 4-Bromofluorobenzene	0.0366	"	0.0400	91.6	78.4-125

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1102410 - EPA 5030 Soil MS

Matrix Spike (1102410-MS1)		Source: R110148-02			Prepared: 10/24/11	Analyzed: 10/25/11			
Benzene	0.0736	0.0050	mg/kg	0.100	ND	73.6	42.9-137		17.9
Toluene	0.0971	0.0050	"	0.100	ND	97.1	42.6-130		11.9
Ethylbenzene	0.0968	0.0050	"	0.100	ND	96.8	39-133		20
m,p-Xylene	0.209	0.010	"	0.200	ND	105	34.7-134		20
o-Xylene	0.0994	0.0050	"	0.100	ND	99.4	41.3-126		20
Surrogate: 1,2-Dichloroethane-d4	0.0341		"	0.0400		85.2	67.4-143		
Surrogate: Toluene-d8	0.0362		"	0.0400		90.6	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.7	78.4-125		

Matrix Spike Dup (1102410-MSD1)		Source: R110148-02			Prepared: 10/24/11	Analyzed: 10/25/11			
Benzene	0.0726	0.0050	mg/kg	0.100	ND	72.6	42.9-137	1.35	17.9
Toluene	0.0980	0.0050	"	0.100	ND	98.0	42.6-130	0.830	11.9
Ethylbenzene	0.0963	0.0050	"	0.100	ND	96.3	39-133	0.528	20
m,p-Xylene	0.209	0.010	"	0.200	ND	105	34.7-134	0.0143	20
o-Xylene	0.0996	0.0050	"	0.100	ND	99.6	41.3-126	0.211	20
Surrogate: 1,2-Dichloroethane-d4	0.0338		"	0.0400		84.5	67.4-143		
Surrogate: Toluene-d8	0.0363		"	0.0400		90.7	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.1	78.4-125		

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1102611 - EPA 5030 Soil MS

Blank (1102611-BLK1)

Prepared: 10/26/11 Analyzed: 10/28/11

Acenaphthene	ND	5.00	ug/kg
Acenaphthylene	ND	5.00	"
Anthracene	ND	5.00	"
Benzo (a) anthracene	ND	5.00	"
Benzo (b) fluoranthene	ND	5.00	"
Benzo (k) fluoranthene	ND	5.00	"
Benzo (g,h,i) perylene	ND	5.00	"
Benzo (a) pyrene	ND	5.00	"
Chrysene	ND	5.00	"
Dibenz (a,h) anthracene	ND	10.0	"
Fluoranthene	ND	5.00	"
Fluorene	ND	5.00	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"
Naphthalene	ND	5.00	"
Phenanthrene	ND	5.00	"
Pyrene	ND	5.00	"

Surrogate: Nitrobenzene-d5	27.3		"	33.3	81.9	21.8-138
Surrogate: 2-Fluorobiphenyl	27.9		"	33.1	84.1	31.2-131
Surrogate: 2,4,6-Tribromophenol	18.5		"	33.3	55.4	44.5-144
Surrogate: Terphenyl-d14	28.3		"	32.7	86.6	41.7-139

LCS (1102611-BS1)

Prepared: 10/26/11 Analyzed: 10/28/11

Acenaphthene	33.5	5.00	ug/kg	33.3	101	30-120	30
Acenaphthylene	32.9	5.00	"	33.3	98.8	30-120	30
Anthracene	33.3	5.00	"	33.3	99.9	30-120	30
Benzo (a) anthracene	34.4	5.00	"	33.3	103	30-120	30
Benzo (b) fluoranthene	31.3	5.00	"	33.3	93.8	30-120	30
Benzo (k) fluoranthene	28.0	5.00	"	33.3	84.0	30-120	30
Benzo (g,h,i) perylene	29.6	5.00	"	33.3	88.7	30-120	30
Benzo (a) pyrene	32.5	5.00	"	33.3	97.6	30-120	30
Chrysene	30.5	5.00	"	33.3	91.5	30-120	30
Dibenz (a,h) anthracene	27.5	10.0	"	33.3	82.6	30-120	30
Fluoranthene	34.2	5.00	"	33.3	102	30-120	30

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Project Manager: Kristen Stocks

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1102611 - EPA 5030 Soil MS

LCS (1102611-BS1)

Prepared: 10/26/11 Analyzed: 10/28/11

Fluorene	33.9	5.00	ug/kg	33.3		102	30-120		30	
Indeno (1,2,3-cd) pyrene	30.7	10.0	"	33.3		92.0	30-120		30	
Naphthalene	31.7	5.00	"	33.3		95.1	30-120		30	
Phenanthrene	33.0	5.00	"	33.3		98.9	30-120		30	
Pyrene	33.1	5.00	"	33.3		99.3	30-120		30	
Surrogate: Nitrobenzene-d5	34.5		"	33.3		103	21.8-138			
Surrogate: 2-Fluorobiphenyl	35.1		"	33.1		106	31.2-131			
Surrogate: 2,4,6-Tribromophenol	22.7		"	33.3		68.0	44.5-144			
Surrogate: Terphenyl-d14	33.2		"	32.7		102	41.7-139			

LCS Dup (1102611-BS1)

Prepared: 10/26/11 Analyzed: 10/28/11

Acenaphthene	33.9	5.00	ug/kg	33.3		102	30-120	1.08	30	
Acenaphthylene	33.1	5.00	"	33.3		99.2	30-120	0.317	30	
Anthracene	33.5	5.00	"	33.3		100	30-120	0.592	30	
Benzo (a) anthracene	34.8	5.00	"	33.3		104	30-120	1.05	30	
Benzo (b) fluoranthene	31.9	5.00	"	33.3		95.7	30-120	2.02	30	
Benzo (k) fluoranthene	30.6	5.00	"	33.3		91.8	30-120	8.82	30	
Benzo (g,h,i) perylene	30.5	5.00	"	33.3		91.5	30-120	3.16	30	
Benzo (a) pyrene	32.5	5.00	"	33.3		97.5	30-120	0.120	30	
Chrysene	31.1	5.00	"	33.3		93.2	30-120	1.85	30	
Dibenz (a,h) anthracene	28.4	10.0	"	33.3		85.2	30-120	3.11	30	
Fluoranthene	34.1	5.00	"	33.3		102	30-120	0.120	30	
Fluorene	33.7	5.00	"	33.3		101	30-120	0.573	30	
Indeno (1,2,3-cd) pyrene	30.9	10.0	"	33.3		92.6	30-120	0.622	30	
Naphthalene	32.1	5.00	"	33.3		96.3	30-120	1.26	30	
Phenanthrene	33.5	5.00	"	33.3		101	30-120	1.66	30	
Pyrene	34.4	5.00	"	33.3		103	30-120	3.79	30	
Surrogate: Nitrobenzene-d5	34.5		"	33.3		104	21.8-138			
Surrogate: 2-Fluorobiphenyl	36.0		"	33.1		109	31.2-131			
Surrogate: 2,4,6-Tribromophenol	22.6		"	33.3		67.7	44.5-144			
Surrogate: Terphenyl-d14	35.3		"	32.7		108	41.7-139			

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Project Number: [none]
Project Manager: Kristen Stocks

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1102611 - EPA 5030 Soil MS

Matrix Spike (1102611-MS1)	Source: R110145-01			Prepared: 10/26/11		Analyzed: 10/28/11			
Acenaphthene	31.8	5.00	ug/kg	33.3	ND	95.4	30-120		30
Acenaphthylene	31.2	5.00	"	33.3	ND	93.6	30-120		30
Anthracene	30.6	5.00	"	33.3	ND	91.8	30-120		30
Benzo (a) anthracene	33.1	5.00	"	33.3	1.14	96.0	30-120		30
Benzo (b) fluoranthene	32.1	5.00	"	33.3	1.24	92.4	30-120		30
Benzo (k) fluoranthene	29.8	5.00	"	33.3	ND	89.4	30-120		30
Benzo (g,h,i) perylene	29.0	5.00	"	33.3	ND	86.9	30-120		30
Benzo (a) pyrene	30.4	5.00	"	33.3	ND	91.1	30-120		30
Chrysene	30.8	5.00	"	33.3	1.19	88.9	30-120		30
Dibenz (a,h) anthracene	26.7	10.0	"	33.3	ND	80.2	30-120		30
Fluoranthene	32.4	5.00	"	33.3	ND	97.3	30-120		30
Fluorene	32.0	5.00	"	33.3	ND	96.0	30-120		30
Indeno (1,2,3-cd) pyrene	30.3	10.0	"	33.3	ND	91.0	30-120		30
Naphthalene	30.8	5.00	"	33.3	ND	92.5	30-120		30
Phenanthrene	31.7	5.00	"	33.3	ND	95.2	30-120		30
Pyrene	32.9	5.00	"	33.3	ND	98.7	30-120		30
Surrogate: Nitrobenzene-d5	34.4		"	33.3		103	21.8-138		
Surrogate: 2-Fluorobiphenyl	33.8		"	33.1		102	31.2-131		
Surrogate: 2,4,6-Tribromophenol	33.0		"	33.3		99.0	44.5-144		
Surrogate: Terphenyl-d14	33.6		"	32.7		103	41.7-139		

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

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Total Metals by EPA SW846 Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1102703 - EPA 3050B

Blank (1102703-BLK1)

Prepared: 10/28/11 Analyzed: 10/30/11

Arsenic	ND	0.100	mg/kg
Arsenic	ND	0.100	"
Barium	ND	5.00	"
Cadmium	ND	0.100	"
Chromium	ND	0.100	"
Copper	ND	0.500	"
Lead	ND	0.500	"
Nickel	ND	0.500	"
Selenium	ND	0.100	"
Silver	ND	0.100	"
Zinc	ND	5.00	"

LCS (1102703-BS1)

Prepared: 10/28/11 Analyzed: 10/30/11

Arsenic	2.53	0.100	mg/kg	2.54	99.7	80-120	20
Arsenic	2.53	0.100	"	2.54	99.7	80-120	20
Barium	221	5.00	"	224	98.4	80-120	20
Cadmium	0.950	0.100	"	1.02	93.6	80-120	20
Chromium	9.80	0.100	"	10.0	97.5	80-120	20
Copper	21.4	0.500	"	20.0	107	80-120	20
Lead	73.7	0.500	"	75.0	98.2	80-120	20
Nickel	14.6	0.500	"	15.1	96.6	80-120	20
Selenium	1.03	0.100	"	1.15	90.0	80-120	20
Silver	1.73	0.100	"	1.54	112	80-120	20
Zinc	84.3	5.00	"	75.0	112	80-120	20

LCS Dup (1102703-BSD1)

Prepared: 10/28/11 Analyzed: 10/30/11

Arsenic	2.79	0.100	mg/kg	2.54	110	80-120	9.68	20
Arsenic	2.79	0.100	"	2.54	110	80-120	9.68	20
Barium	247	5.00	"	224	110	80-120	11.2	20
Cadmium	1.02	0.100	"	1.02	101	80-120	7.50	20
Chromium	10.8	0.100	"	10.0	108	80-120	9.86	20
Copper	23.8	0.500	"	20.0	119	80-120	10.5	20
Lead	80.3	0.500	"	75.0	107	80-120	8.59	20
Nickel	16.0	0.500	"	15.1	106	80-120	9.02	20

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Project Number: [none]
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Total Metals by EPA SW846 Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1102703 - EPA 3050B

LCS Dup (1102703-BSD1)

Prepared: 10/28/11 Analyzed: 10/30/11

Selenium	1.13	0.100	mg/kg	1.15		98.7	80-120	9.22	20	
Silver	1.90	0.100	"	1.54		123	80-120	9.37	20	
Zinc	92.6	5.00	"	75.0		124	80-120	9.44	20	

Matrix Spike (1102703-MS1)

Source: R110146-01

Prepared: 10/28/11 Analyzed: 10/30/11

Arsenic	8.14	0.808	mg/kg	2.05	7.11	50.1	75-125		25	QM-07
Arsenic	8.14	0.808	"	2.05	7.11	50.1	75-125		20	QM-07
Barium	521	40.4	"	182	331	105	75-125		25	
Cadmium	1.17	0.808	"	0.821	0.201	118	75-125		25	
Chromium	28.3	0.808	"	8.13	18.1	125	75-125		25	
Copper	32.0	4.04	"	16.2	14.6	107	75-125		25	
Lead	88.8	4.04	"	60.6	15.5	121	75-125		25	
Nickel	29.4	4.04	"	12.2	17.3	98.6	75-125		25	
Selenium	1.41	0.808	"	0.930	0.445	104	75-125		25	
Silver	1.67	0.0808	"	1.25	0.0727	128	75-125		25	QM-07
Zinc	102	40.4	"	60.6	52.2	81.4	75-125		25	

Matrix Spike Dup (1102703-MSD1)

Source: R110146-01

Prepared: 10/28/11 Analyzed: 10/30/11

Arsenic	7.35	0.809	mg/kg	2.05	7.11	11.7	75-125	10.2	25	QM-07
Arsenic	7.35	0.809	"	2.05	7.11	11.7	75-125	10.2	20	QM-07
Barium	523	40.4	"	182	331	106	75-125	0.368	25	
Cadmium	1.05	0.809	"	0.821	0.201	104	75-125	10.3	25	
Chromium	28.3	0.809	"	8.13	18.1	125	75-125	0.0124	25	
Copper	31.5	4.04	"	16.2	14.6	104	75-125	1.58	25	
Lead	84.5	4.04	"	60.7	15.5	114	75-125	4.99	25	
Nickel	27.9	4.04	"	12.2	17.3	87.1	75-125	4.90	25	
Selenium	1.25	0.809	"	0.930	0.445	87.0	75-125	12.0	25	
Silver	1.56	0.0809	"	1.25	0.0727	119	75-125	6.88	25	
Zinc	98.2	40.4	"	60.7	52.2	75.7	75-125	3.40	25	

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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Total Mercury by EPA SW846 Method 7471/7470 - Quality Control
Summit Scientific

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

Batch 1102604 - EPA 7471A

Blank (1102604-BLK1)

Prepared: 10/26/11 Analyzed: 10/28/11

Mercury ND 0.0500 mg/kg

LCS (1102604-BS1)

Prepared: 10/26/11 Analyzed: 10/28/11

Mercury 0.376 0.0500 mg/kg 0.400 93.9 80-120 20

LCS Dup (1102604-BSD1)

Prepared: 10/26/11 Analyzed: 10/28/11

Mercury 0.378 0.0500 mg/kg 0.400 94.4 80-120 0.531 20

Matrix Spike (1102604-MS1)

Source: R110163-01

Prepared: 10/26/11 Analyzed: 10/28/11

Mercury 0.301 0.0500 mg/kg 0.294 0.0207 95.3 75-125 20

Matrix Spike Dup (1102604-MSD1)

Source: R110163-01

Prepared: 10/26/11 Analyzed: 10/28/11

Mercury 0.306 0.0500 mg/kg 0.301 0.0207 94.6 75-125 1.72 20

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Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

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

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

Batch 1102904 - General Preparation

Duplicate (1102904-DUP1) **Source: R110145-01** Prepared & Analyzed: 10/29/11

Specific Conductance (EC)	2.05	0.00100	mmhos/cm	2.13	3.68	20
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Batch 1102905 - General Preparation

Duplicate (1102905-DUP1) **Source: R110145-01** Prepared & Analyzed: 10/29/11

pH	7.1		pH Units	7.1	0.422	20
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Project Number: [none]
Project Manager: Kristen Stocks

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

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

Batch 1102701 - General Preparation

Blank (1102701-BLK1)

Prepared: 10/27/11 Analyzed: 10/30/11

Calcium	3.94	2.50	mg/kg
Magnesium	ND	1.00	"
Sodium	ND	5.00	"

LCS (1102701-BS1)

Prepared: 10/27/11 Analyzed: 10/30/11

Calcium	187	2.50	mg/kg	200	93.4	70-130	25
Magnesium	74.9	1.00	"	80.0	93.6	70-130	25
Sodium	383	5.00	"	400	95.7	70-130	25

LCS Dup (1102701-BSD1)

Prepared: 10/27/11 Analyzed: 10/30/11

Calcium	217	2.50	mg/kg	200	109	70-130	15.0	25
Magnesium	80.0	1.00	"	80.0	100	70-130	6.63	25
Sodium	428	5.00	"	400	107	70-130	11.2	25

Matrix Spike (1102701-MS1)

Source: R110146-01

Prepared: 10/27/11 Analyzed: 10/30/11

Calcium	616	2.50	mg/kg	166	774	-94.8	70-130	25	QM-07
Magnesium	105	1.00	"	66.4	82.5	34.4	70-130	25	QM-07
Sodium	813	5.00	"	332	392	127	70-130	25	

Matrix Spike Dup (1102701-MSD1)

Source: R110146-01

Prepared: 10/27/11 Analyzed: 10/30/11

Calcium	530	2.50	mg/kg	164	774	-149	70-130	15.1	25	QM-07
Magnesium	87.8	1.00	"	65.7	82.5	8.00	70-130	18.2	25	QM-07
Sodium	732	5.00	"	329	392	103	70-130	10.5	25	

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535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/04/11 14:54

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

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

A handwritten signature in black ink, appearing to be 'MSM'.

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 29, 2011

Kristen Stocks
Entek GRB LLC
535 16th Street Suite 620
Denver, CO 80202
RE: Robidoux Pitt 13-15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/22/11 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Base 1	R111162-01	Soil	11/17/11 07:00	11/22/11 13:50
Base 2	R111162-02	Soil	11/17/11 07:00	11/22/11 13:50

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

Base 1
R111162-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1112305	11/23/11	11/23/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.4 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1112303	11/23/11	11/23/11	EPA 8260B	

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]

Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

Base 2
R111162-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1112305	11/23/11	11/23/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.0 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1112303	11/23/11	11/24/11	EPA 8260B	

Date Sampled: 11/17/11 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.6 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		104 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	78.4-125		"	"	"	"	

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1112305 - EPA 3550A

Blank (1112305-BLK1)

Prepared & Analyzed: 11/23/11

C10-C28 (TEPH-DRO)	ND	50	mg/kg
C28-C36 (TEPH-ORO)	ND	50	"

Surrogate: o-Terphenyl	12.9	"	12.5	103	88.8-124
------------------------	------	---	------	-----	----------

LCS (1112305-BS1)

Prepared & Analyzed: 11/23/11

C10-C28 (TEPH-DRO)	492	50	mg/kg	501	98.3	85-129	11.8
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LCS Dup (1112305-BSD1)

Prepared & Analyzed: 11/23/11

C10-C28 (TEPH-DRO)	495	50	mg/kg	501	98.9	85-129	0.606	11.8
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Matrix Spike (1112305-MS1)

Source: R111162-01

Prepared & Analyzed: 11/23/11

C10-C28 (TEPH-DRO)	489	50	mg/kg	501	44.0	88.8	77.3-134	8.39
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Matrix Spike Dup (1112305-MSD1)

Source: R111162-01

Prepared & Analyzed: 11/23/11

C10-C28 (TEPH-DRO)	456	50	mg/kg	501	44.0	82.1	77.3-134	7.06	8.39
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

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 1112303 - EPA 5030 Soil MS

Blank (1112303-BLK1)

Prepared & Analyzed: 11/23/11

Gasoline Range Hydrocarbons	ND	0.50	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	67.4-143			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	78.4-125			

LCS (1112303-BS1)

Prepared & Analyzed: 11/23/11

Gasoline Range Hydrocarbons	1.91	0.50	mg/kg				70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	67.4-143			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	78.4-125			

LCS Dup (1112303-BSD1)

Prepared & Analyzed: 11/23/11

Gasoline Range Hydrocarbons	1.88	0.50	mg/kg				70-130	1.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	67.4-143			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	78.4-125			

Matrix Spike (1112303-MS1)

Source: R111162-01

Prepared & Analyzed: 11/23/11

Gasoline Range Hydrocarbons	1.86	0.50	mg/kg		ND		70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0458		"	0.0400		115	67.4-143			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.6	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	78.4-125			

Matrix Spike Dup (1112303-MSD1)

Source: R111162-01

Prepared & Analyzed: 11/23/11

Gasoline Range Hydrocarbons	1.82	0.50	mg/kg		ND		70-130	2.49	20	
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		110	67.4-143			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	78.4-125			

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/29/11 10:38

Notes and Definitions

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

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 18, 2011

Kristen Stocks
Entek GRB LLC
535 16th Street Suite 620
Denver, CO 80202
RE: Robidoux Pitt 13-15

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

Sincerely,

A handwritten signature in black ink, appearing to be 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Base 1	R111074-01	Soil	11/07/11 17:00	11/09/11 17:05
Base 2	R111074-02	Soil	11/07/11 17:00	11/09/11 17:05
SW1	R111074-03	Soil	11/07/11 17:00	11/09/11 17:05
SW2	R111074-04	Soil	11/07/11 17:00	11/09/11 17:05

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 1
R111074-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	2000	50	mg/kg	1	1111005	11/10/11	11/11/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	540	50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1111006	11/10/11	11/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 1
R111074-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1111001	11/10/11	11/13/11	EPA 8270D SIM	
Acenaphthylene	7.56	5.00	"	"	"	"	"	"	
Anthracene	71.1	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	90.5	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	65.9	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	60.3	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	24.3	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	13.0	5.00	"	"	"	"	"	"	
Chrysene	89.0	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	72.6	5.00	"	"	"	"	"	"	
Fluorene	27.9	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	28.3	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	352	50.0	"	10	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		72.2 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		87.0 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		106 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-dl4		84.6 %	41.7-139		"	"	"	"	

Calculated Analytes

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	3.42	0.430	mg/kg	1	1111811	11/16/11	11/18/11	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 1
R111074-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.82	0.100	mg/kg	1	1111102	11/11/11	11/14/11	EPA 6020A	
Barium	296	5.00	"	"	"	"	"	"	
Cadmium	ND	0.100	"	"	"	"	"	"	
Chromium	4.42	0.100	"	"	"	"	"	"	
Copper	5.61	0.500	"	"	"	"	"	"	
Lead	6.71	0.500	"	"	"	"	"	"	
Nickel	3.80	0.500	"	"	"	"	"	"	
Selenium	0.206	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	13.2	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0600	0.0500	mg/kg	1	1111103	11/13/11	11/14/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.736	0.00100	mmhos/cm	1	1111413	11/14/11	11/14/11	SM 2510B	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	"	1111414	11/14/11	11/14/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 1
R111074-01 (Soil)

Summit Scientific

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	1	0.43	mg/kg	1	1111811	11/16/11	11/18/11	3060A/7196 A	

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

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	240	2.50	mg/kg	1	1111101	11/11/11	11/11/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	29.0	1.00	"	"	"	"	"	"	
Sodium	178	5.00	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.89		units	"	1111114	11/11/11	11/11/11	"	

Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 2
R111074-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1111005	11/10/11	11/11/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.3 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1111006	11/10/11	11/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 2
R111074-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	1111001	11/10/11	11/13/11	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	21.9	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	8.63	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	5.10	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	22.4	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	10.6	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	7.72	5.00	"	"	"	"	"	"	
Pyrene	60.5	5.00	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		93.0 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		94.2 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		103 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		91.0 %	41.7-139		"	"	"	"	

Calculated Analytes

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	1.66	0.420	mg/kg	1	1111811	11/16/11	11/18/11	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 2
R111074-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.898	0.100	mg/kg	1	1111102	11/11/11	11/14/11	EPA 6020A	
Barium	84.0	5.00	"	"	"	"	"	"	
Cadmium	ND	0.100	"	"	"	"	"	"	
Chromium	2.37	0.100	"	"	"	"	"	"	
Copper	1.73	0.500	"	"	"	"	"	"	
Lead	5.30	0.500	"	"	"	"	"	"	
Nickel	1.33	0.500	"	"	"	"	"	"	
Selenium	ND	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	ND	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0500	mg/kg	1	1111103	11/13/11	11/14/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.497	0.00100	mmhos/cm	1	1111413	11/14/11	11/14/11	SM 2510B	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.6		pH Units	"	1111414	11/14/11	11/14/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Base 2
R111074-02 (Soil)

Summit Scientific

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	0.71	0.42	mg/kg	1	1111811	11/16/11	11/18/11	3060A/7196 A	

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

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	112	2.50	mg/kg	1	1111101	11/11/11	11/11/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	22.1	1.00	"	"	"	"	"	"	
Sodium	123	5.00	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.78		units	"	1111114	11/11/11	11/11/11	"	

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535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW1
R111074-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1111005	11/10/11	11/11/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.8 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1111006	11/10/11	11/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		100 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW1
R111074-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Acenaphthene	ND	5.00	ug/kg	1	1111001	11/10/11	11/13/11	EPA 8270D SIM
Acenaphthylene	ND	5.00	"	"	"	"	"	"
Anthracene	31.2	5.00	"	"	"	"	"	"
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (k) fluoranthene	11.9	5.00	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"
Chrysene	22.7	5.00	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"
Fluoranthene	11.6	5.00	"	"	"	"	"	"
Fluorene	14.1	5.00	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"
Naphthalene	18.9	5.00	"	"	"	"	"	"
Phenanthrene	28.9	5.00	"	"	"	"	"	"
Pyrene	58.7	5.00	"	"	"	"	"	"

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: Nitrobenzene-d5		82.2 %		21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.2 %		31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		109 %		44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		98.1 %		41.7-139		"	"	"	"	

Calculated Analytes

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium+3 Calculated	8.24	0.480		mg/kg	1	1111811	11/16/11	11/18/11	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW1
R111074-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.79	0.100	mg/kg	1	1111102	11/11/11	11/14/11	EPA 6020A	
Barium	548	5.00	"	"	"	"	"	"	
Cadmium	1.25	0.100	"	"	"	"	"	"	
Chromium	8.97	0.100	"	"	"	"	"	"	
Copper	17.9	0.500	"	"	"	"	"	"	
Lead	15.9	0.500	"	"	"	"	"	"	
Nickel	36.9	0.500	"	"	"	"	"	"	
Selenium	0.256	0.100	"	"	"	"	"	"	
Silver	ND	0.100	"	"	"	"	"	"	
Zinc	115	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	0.0508	0.0500	mg/kg	1	1111103	11/13/11	11/14/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.636	0.00100	mmhos/cm	1	1111413	11/14/11	11/14/11	SM 2510B	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.9		pH Units	"	1111414	11/14/11	11/14/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW1
R111074-03 (Soil)

Summit Scientific

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	0.73	0.48	mg/kg	1	1111811	11/16/11	11/18/11	3060A/7196 A	

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

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	215	2.50	mg/kg	1	1111101	11/11/11	11/11/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	69.7	1.00	"	"	"	"	"	"	
Sodium	420	5.00	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.37		units	"	1111114	11/11/11	11/11/11	"	

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW2
R111074-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	190	50	mg/kg	1	1111005	11/10/11	11/11/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	50	50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.5 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1111006	11/10/11	11/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	78.4-125		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW2
R111074-04 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Acenaphthene	ND	5.00	ug/kg	1	1111001	11/10/11	11/13/11	EPA 8270D SIM
Acenaphthylene	ND	5.00	"	"	"	"	"	"
Anthracene	ND	5.00	"	"	"	"	"	"
Benzo (a) anthracene	10.9	5.00	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"
Chrysene	11.1	5.00	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"
Fluoranthene	ND	5.00	"	"	"	"	"	"
Fluorene	ND	5.00	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"
Naphthalene	ND	5.00	"	"	"	"	"	"
Phenanthrene	ND	5.00	"	"	"	"	"	"
Pyrene	29.9	5.00	"	"	"	"	"	"

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		90.1 %	21.8-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		102 %	31.2-131		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		108 %	44.5-144		"	"	"	"	
Surrogate: Terphenyl-d14		113 %	41.7-139		"	"	"	"	

Calculated Analytes

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	10.6	0.420	mg/kg	1	1111811	11/16/11	11/18/11	Calculation	

Total Metals by EPA Method 6020 - Dry Weight Basis

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW2
R111074-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.47	0.100	mg/kg	1	1111102	11/11/11	11/14/11	EPA 6020A	
Barium	249	5.00	"	"	"	"	"	"	
Cadmium	0.176	0.100	"	"	"	"	"	"	
Chromium	11.5	0.100	"	"	"	"	"	"	
Copper	14.3	0.500	"	"	"	"	"	"	
Lead	12.4	0.500	"	"	"	"	"	"	
Nickel	14.8	0.500	"	"	"	"	"	"	
Selenium	0.564	0.100	"	"	"	"	"	"	
Silver	5.08	0.100	"	"	"	"	"	"	
Zinc	74.6	5.00	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.0500	mg/kg	1	1111103	11/13/11	11/14/11	EPA 7471B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.399	0.00100	mmhos/cm	1	1111413	11/14/11	11/14/11	SM 2510B	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.7		pH Units	"	1111414	11/14/11	11/14/11	EPA 9045B	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

SW2
R111074-04 (Soil)

Summit Scientific

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	0.89	0.42	mg/kg	1	1111811	11/16/11	11/18/11	3060A/7196 A	

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

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	375	2.50	mg/kg	1	1111101	11/11/11	11/11/11	EPA 6020/USDA6 0 6(2, 3A)	
Magnesium	69.0	1.00	"	"	"	"	"	"	
Sodium	70.8	5.00	"	"	"	"	"	"	

Date Sampled: 11/07/11 17:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.880		units	"	1111114	11/11/11	11/11/11	"	

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1111005 - EPA 3550A

Blank (1111005-BLK1)

Prepared: 11/10/11 Analyzed: 11/11/11

C10-C28 (TEPH-DRO)	ND	50	mg/kg
C28-C36 (TEPH-ORO)	ND	50	"

Surrogate: o-Terphenyl	11.6	"	12.5	92.5	88.8-124
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LCS (1111005-BS1)

Prepared: 11/10/11 Analyzed: 11/11/11

C10-C28 (TEPH-DRO)	553	50	mg/kg	501	110	85-129	11.8
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LCS Dup (1111005-BSD1)

Prepared: 11/10/11 Analyzed: 11/11/11

C10-C28 (TEPH-DRO)	523	50	mg/kg	501	104	85-129	5.45	11.8
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Matrix Spike (1111005-MS1)

Source: R111076-01

Prepared: 11/10/11 Analyzed: 11/11/11

C10-C28 (TEPH-DRO)	587	50	mg/kg	501	26.9	112	77.3-134	8.39
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Matrix Spike Dup (1111005-MSD1)

Source: R111076-01

Prepared: 11/10/11 Analyzed: 11/11/11

C10-C28 (TEPH-DRO)	573	50	mg/kg	501	26.9	109	77.3-134	2.36	8.39
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535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

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 1111006 - EPA 5030 Soil MS

Blank (1111006-BLK1)

Prepared: 11/10/11 Analyzed: 11/11/11

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	0.0403		"	0.0400		101	67.4-143			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	78.4-125			

LCS (1111006-BS1)

Prepared: 11/10/11 Analyzed: 11/11/11

Benzene	0.150	0.0050	mg/kg	0.150		99.7	61-139		11.1	
Toluene	0.149	0.0050	"	0.150		99.6	64-132		10.9	
Ethylbenzene	0.152	0.0050	"	0.150		102	68.7-135		20	
m,p-Xylene	0.301	0.010	"	0.300		100	70.4-129		20	
o-Xylene	0.156	0.0050	"	0.150		104	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	67.4-143			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	78.4-125			

LCS Dup (1111006-BSD1)

Prepared: 11/10/11 Analyzed: 11/11/11

Benzene	0.151	0.0050	mg/kg	0.150		100	61-139	0.759	11.1	
Toluene	0.150	0.0050	"	0.150		100	64-132	0.381	10.9	
Ethylbenzene	0.150	0.0050	"	0.150		100	68.7-135	1.55	20	
m,p-Xylene	0.293	0.010	"	0.300		97.6	70.4-129	2.87	20	
o-Xylene	0.152	0.0050	"	0.150		101	66.9-126	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.6	67.4-143			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	78.4-125			

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

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 1111006 - EPA 5030 Soil MS

Matrix Spike (1111006-MS1)		Source: R111076-01			Prepared: 11/10/11		Analyzed: 11/11/11			
Benzene	0.121	0.0050	mg/kg	0.150	ND	80.8	42.9-137		17.9	
Toluene	0.121	0.0050	"	0.150	ND	80.9	42.6-130		11.9	
Ethylbenzene	0.120	0.0050	"	0.150	ND	79.8	39-133		20	
m,p-Xylene	0.235	0.010	"	0.300	ND	78.5	34.7-134		20	
o-Xylene	0.121	0.0050	"	0.150	ND	80.6	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0442		"	0.0400		111	67.4-143			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	78.4-125			

Matrix Spike Dup (1111006-MSD1)		Source: R111076-01			Prepared: 11/10/11		Analyzed: 11/11/11			
Benzene	0.115	0.0050	mg/kg	0.150	ND	76.4	42.9-137	5.60	17.9	
Toluene	0.114	0.0050	"	0.150	ND	75.9	42.6-130	6.35	11.9	
Ethylbenzene	0.110	0.0050	"	0.150	ND	73.4	39-133	8.35	20	
m,p-Xylene	0.218	0.010	"	0.300	ND	72.7	34.7-134	7.63	20	
o-Xylene	0.113	0.0050	"	0.150	ND	75.5	41.3-126	6.54	20	
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		110	67.4-143			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	78.4-125			

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1111001 - EPA 5030 Soil MS

Blank (1111001-BLK1)

Prepared: 11/10/11 Analyzed: 11/13/11

Acenaphthene	ND	5.00	ug/kg							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
Surrogate: Nitrobenzene-d5	25.3		"	33.3	75.8	21.8-138				
Surrogate: 2-Fluorobiphenyl	29.1		"	33.1	88.0	31.2-131				
Surrogate: 2,4,6-Tribromophenol	26.7		"	33.3	80.1	44.5-144				
Surrogate: Terphenyl-d14	42.0		"	32.7	128	41.7-139				

LCS (1111001-BS1)

Prepared: 11/10/11 Analyzed: 11/13/11

Acenaphthene	32.5	5.00	ug/kg	33.3	97.5	30-120	30
Acenaphthylene	30.4	5.00	"	33.3	91.2	30-120	30
Anthracene	35.0	5.00	"	33.3	105	30-120	30
Benzo (a) anthracene	31.4	5.00	"	33.3	94.1	30-120	30
Benzo (b) fluoranthene	23.8	5.00	"	33.3	71.4	30-120	30
Benzo (k) fluoranthene	33.0	5.00	"	33.3	99.0	30-120	30
Benzo (g,h,i) perylene	22.2	5.00	"	33.3	66.7	30-120	30
Benzo (a) pyrene	30.0	5.00	"	33.3	90.0	30-120	30
Chrysene	34.0	5.00	"	33.3	102	30-120	30
Dibenz (a,h) anthracene	20.3	10.0	"	33.3	60.9	30-120	30
Fluoranthene	31.6	5.00	"	33.3	94.7	30-120	30
Fluorene	29.5	5.00	"	33.3	88.4	30-120	30
Indeno (1,2,3-cd) pyrene	20.7	10.0	"	33.3	62.0	30-120	30
Naphthalene	31.8	5.00	"	33.3	95.5	30-120	30
Phenanthrene	32.5	5.00	"	33.3	97.4	30-120	30
Pyrene	35.8	5.00	"	33.3	108	30-120	30

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1111001 - EPA 5030 Soil MS

LCS (1111001-BS1)

Prepared: 11/10/11 Analyzed: 11/13/11

Surrogate: Nitrobenzene-d5	31.0		ug/kg	33.3		93.0	21.8-138		
Surrogate: 2-Fluorobiphenyl	31.4		"	33.1		94.8	31.2-131		
Surrogate: 2,4,6-Tribromophenol	23.7		"	33.3		71.1	44.5-144		
Surrogate: Terphenyl-d14	35.6		"	32.7		109	41.7-139		

LCS Dup (1111001-BS1)

Prepared: 11/10/11 Analyzed: 11/13/11

Acenaphthene	32.5	5.00	ug/kg	33.3		97.5	30-120	0.0934	30
Acenaphthylene	29.6	5.00	"	33.3		88.8	30-120	2.64	30
Anthracene	34.1	5.00	"	33.3		102	30-120	2.58	30
Benzo (a) anthracene	31.5	5.00	"	33.3		94.5	30-120	0.475	30
Benzo (b) fluoranthene	26.1	5.00	"	33.3		78.2	30-120	9.16	30
Benzo (k) fluoranthene	30.1	5.00	"	33.3		90.4	30-120	9.07	30
Benzo (g,h,i) perylene	25.4	5.00	"	33.3		76.2	30-120	13.3	30
Benzo (a) pyrene	28.7	5.00	"	33.3		86.2	30-120	4.31	30
Chrysene	39.2	5.00	"	33.3		117	30-120	14.1	30
Dibenz (a,h) anthracene	21.7	10.0	"	33.3		65.0	30-120	6.55	30
Fluoranthene	34.4	5.00	"	33.3		103	30-120	8.50	30
Fluorene	28.4	5.00	"	33.3		85.1	30-120	3.71	30
Indeno (1,2,3-cd) pyrene	23.0	10.0	"	33.3		69.1	30-120	10.7	30
Naphthalene	31.1	5.00	"	33.3		93.4	30-120	2.23	30
Phenanthrene	33.4	5.00	"	33.3		100	30-120	2.73	30
Pyrene	35.9	5.00	"	33.3		108	30-120	0.312	30
Surrogate: Nitrobenzene-d5	30.2		"	33.3		90.7	21.8-138		
Surrogate: 2-Fluorobiphenyl	31.0		"	33.1		93.5	31.2-131		
Surrogate: 2,4,6-Tribromophenol	27.6		"	33.3		82.7	44.5-144		
Surrogate: Terphenyl-d14	33.8		"	32.7		103	41.7-139		

Matrix Spike (1111001-MS1)

Source: R111009-01

Prepared: 11/10/11 Analyzed: 11/13/11

Acenaphthene	30.9	5.00	ug/kg	33.3	ND	92.6	30-120		30
Acenaphthylene	28.1	5.00	"	33.3	ND	84.4	30-120		30
Anthracene	35.9	5.00	"	33.3	1.04	104	30-120		30
Benzo (a) anthracene	33.0	5.00	"	33.3	2.32	92.0	30-120		30
Benzo (b) fluoranthene	28.6	5.00	"	33.3	2.91	77.2	30-120		30
Benzo (k) fluoranthene	29.9	5.00	"	33.3	2.48	82.4	30-120		30
Benzo (g,h,i) perylene	28.2	5.00	"	33.3	2.21	78.0	30-120		30
Benzo (a) pyrene	29.9	5.00	"	33.3	2.43	82.3	30-120		30
Chrysene	36.8	5.00	"	33.3	4.16	98.0	30-120		30
Dibenz (a,h) anthracene	21.1	10.0	"	33.3	ND	63.3	30-120		30

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Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 1111001 - EPA 5030 Soil MS

Matrix Spike (1111001-MS1)

Source: R111009-01

Prepared: 11/10/11

Analyzed: 11/13/11

Fluoranthene	38.6	5.00	ug/kg	33.3	7.07	94.7	30-120		30	
Fluorene	28.1	5.00	"	33.3	ND	84.3	30-120		30	
Indeno (1,2,3-cd) pyrene	27.2	10.0	"	33.3	2.39	74.4	30-120		30	
Naphthalene	30.0	5.00	"	33.3	ND	90.1	30-120		30	
Phenanthrene	33.4	5.00	"	33.3	3.82	88.9	30-120		30	
Pyrene	39.1	5.00	"	33.3	7.05	96.2	30-120		30	
Surrogate: Nitrobenzene-d5	29.0		"	33.3		87.1	21.8-138			
Surrogate: 2-Fluorobiphenyl	28.7		"	33.1		86.7	31.2-131			
Surrogate: 2,4,6-Tribromophenol	33.5		"	33.3		101	44.5-144			
Surrogate: Terphenyl-d14	32.6		"	32.7		99.6	41.7-139			

Matrix Spike Dup (1111001-MSD1)

Source: R111009-01

Prepared: 11/10/11

Analyzed: 11/13/11

Acenaphthene	30.7	5.00	ug/kg	33.3	ND	92.1	30-120	0.533	30	
Acenaphthylene	30.3	5.00	"	33.3	ND	90.9	30-120	7.40	30	
Anthracene	33.5	5.00	"	33.3	1.04	97.3	30-120	6.94	30	
Benzo (a) anthracene	29.1	5.00	"	33.3	2.32	80.4	30-120	12.5	30	
Benzo (b) fluoranthene	25.5	5.00	"	33.3	2.91	67.7	30-120	11.6	30	
Benzo (k) fluoranthene	28.2	5.00	"	33.3	2.48	77.2	30-120	6.03	30	
Benzo (g,h,i) perylene	24.2	5.00	"	33.3	2.21	66.1	30-120	15.2	30	
Benzo (a) pyrene	26.8	5.00	"	33.3	2.43	73.0	30-120	11.0	30	
Chrysene	36.3	5.00	"	33.3	4.16	96.5	30-120	1.38	30	
Dibenz (a,h) anthracene	20.1	10.0	"	33.3	ND	60.2	30-120	5.11	30	
Fluoranthene	35.5	5.00	"	33.3	7.07	85.4	30-120	8.40	30	
Fluorene	29.1	5.00	"	33.3	ND	87.3	30-120	3.51	30	
Indeno (1,2,3-cd) pyrene	22.9	10.0	"	33.3	2.39	61.6	30-120	17.2	30	
Naphthalene	27.4	5.00	"	33.3	ND	82.2	30-120	9.13	30	
Phenanthrene	30.4	5.00	"	33.3	3.82	79.6	30-120	9.64	30	
Pyrene	36.2	5.00	"	33.3	7.05	87.4	30-120	7.76	30	
Surrogate: Nitrobenzene-d5	25.8		"	33.3		77.3	21.8-138			
Surrogate: 2-Fluorobiphenyl	31.6		"	33.1		95.3	31.2-131			
Surrogate: 2,4,6-Tribromophenol	27.6		"	33.3		82.7	44.5-144			
Surrogate: Terphenyl-d14	30.3		"	32.7		92.8	41.7-139			

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535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1111102 - EPA 3050B

Blank (1111102-BLK1)

Prepared: 11/11/11 Analyzed: 11/14/11

Arsenic	ND	0.100	mg/kg
Barium	ND	5.00	"
Cadmium	ND	0.100	"
Chromium	ND	0.100	"
Copper	ND	0.500	"
Lead	ND	0.500	"
Nickel	ND	0.500	"
Selenium	ND	0.100	"
Silver	ND	0.100	"
Zinc	ND	5.00	"

LCS (1111102-BS1)

Prepared: 11/11/11 Analyzed: 11/14/11

Arsenic	2.62	0.100	mg/kg	2.54	103	80-120	20
Barium	235	5.00	"	224	105	80-120	20
Cadmium	1.09	0.100	"	1.02	107	80-120	20
Chromium	10.8	0.100	"	10.0	108	80-120	20
Copper	22.5	0.500	"	20.0	112	80-120	20
Lead	82.1	0.500	"	75.0	110	80-120	20
Nickel	16.3	0.500	"	15.1	108	80-120	20
Selenium	1.12	0.100	"	1.15	97.8	80-120	20
Silver	0.121	0.100	"	0.125	97.2	80-120	20
Zinc	78.9	5.00	"	75.0	105	80-120	20

LCS Dup (1111102-BSD1)

Prepared: 11/11/11 Analyzed: 11/14/11

Arsenic	2.68	0.100	mg/kg	2.54	106	80-120	2.58	20
Barium	238	5.00	"	224	106	80-120	1.34	20
Cadmium	1.08	0.100	"	1.02	106	80-120	0.600	20
Chromium	10.7	0.100	"	10.0	107	80-120	0.868	20
Copper	22.7	0.500	"	20.0	113	80-120	0.869	20
Lead	83.2	0.500	"	75.0	111	80-120	1.23	20
Nickel	16.5	0.500	"	15.1	110	80-120	1.57	20
Selenium	1.12	0.100	"	1.15	97.3	80-120	0.472	20
Silver	0.119	0.100	"	0.125	95.0	80-120	2.29	20
Zinc	80.1	5.00	"	75.0	107	80-120	1.55	20

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Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1111102 - EPA 3050B

Matrix Spike (1111102-MS1)

Source: R111074-01

Prepared: 11/11/11

Analyzed: 11/14/11

Arsenic	4.00	0.100	mg/kg	2.54	1.82	86.0	75-125		25	
Barium	520	5.00	"	224	296	99.6	75-125		25	
Cadmium	1.18	0.100	"	1.01	0.0667	110	75-125		25	
Chromium	14.9	0.100	"	10.0	4.42	104	75-125		25	
Copper	26.3	0.500	"	20.0	5.61	103	75-125		25	
Lead	90.7	0.500	"	75.0	6.71	112	75-125		25	
Nickel	19.9	0.500	"	15.1	3.80	107	75-125		25	
Selenium	1.34	0.100	"	1.15	0.206	98.5	75-125		25	
Silver	0.177	0.100	"	0.125	0.0462	105	75-125		25	
Zinc	93.6	5.00	"	75.0	13.2	107	75-125		25	

Matrix Spike Dup (1111102-MSD1)

Source: R111074-01

Prepared: 11/11/11

Analyzed: 11/14/11

Arsenic	4.30	0.100	mg/kg	2.57	1.82	96.6	75-125	7.24	25	
Barium	525	5.00	"	227	296	100	75-125	0.938	25	
Cadmium	1.24	0.100	"	1.03	0.0667	114	75-125	4.98	25	
Chromium	15.6	0.100	"	10.2	4.42	109	75-125	4.46	25	
Copper	28.1	0.500	"	20.3	5.61	111	75-125	6.86	25	
Lead	94.6	0.500	"	75.9	6.71	116	75-125	4.23	25	
Nickel	20.1	0.500	"	15.3	3.80	106	75-125	0.846	25	
Selenium	1.41	0.100	"	1.16	0.206	103	75-125	5.02	25	
Silver	0.192	0.100	"	0.127	0.0462	115	75-125	8.03	25	
Zinc	100	5.00	"	75.9	13.2	114	75-125	6.85	25	

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Total Mercury by EPA Method 7471/7470 - Quality Control
Summit Scientific

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

Batch 1111103 - EPA 7471A

Blank (1111103-BLK1)

Prepared: 11/13/11 Analyzed: 11/14/11

Mercury ND 0.0500 mg/kg

LCS (1111103-BS1)

Prepared: 11/13/11 Analyzed: 11/14/11

Mercury 0.395 0.0500 mg/kg 0.400 98.7 80-120 20

LCS Dup (1111103-BSD1)

Prepared: 11/13/11 Analyzed: 11/14/11

Mercury 0.386 0.0500 mg/kg 0.400 96.6 80-120 2.16 20

Matrix Spike (1111103-MS1)

Source: R111074-01

Prepared: 11/13/11 Analyzed: 11/14/11

Mercury 0.269 0.0500 mg/kg 0.215 0.0600 97.1 75-125 20

Matrix Spike Dup (1111103-MSD1)

Source: R111074-01

Prepared: 11/13/11 Analyzed: 11/14/11

Mercury 0.410 0.0500 mg/kg 0.359 0.0600 97.3 75-125 41.6 20

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

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

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

Batch 1111413 - General Preparation

Duplicate (1111413-DUP1)

Source: R111093-01

Prepared & Analyzed: 11/14/11

Specific Conductance (EC)	0.0712	0.00100	mmhos/cm	0.0828	15.2	20
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Batch 1111414 - General Preparation

Duplicate (1111414-DUP1)

Source: R111093-01

Prepared & Analyzed: 11/14/11

pH	8.5		pH Units	8.4	1.07	20
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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

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

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

Batch 1111101 - General Preparation

Blank (1111101-BLK1)

Prepared & Analyzed: 11/11/11

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

LCS (1111101-BS1)

Prepared & Analyzed: 11/11/11

Calcium	145	2.50	mg/kg	200	72.6	70-130	25
Magnesium	78.6	1.00	"	80.0	98.2	70-130	25
Sodium	373	5.00	"	400	93.4	70-130	25

LCS Dup (1111101-BSD1)

Prepared & Analyzed: 11/11/11

Calcium	148	2.50	mg/kg	200	74.1	70-130	2.07	25
Magnesium	78.2	1.00	"	80.0	97.8	70-130	0.424	25
Sodium	373	5.00	"	400	93.2	70-130	0.193	25

Matrix Spike (1111101-MS1)

Source: R111074-02

Prepared & Analyzed: 11/11/11

Calcium	280	2.50	mg/kg	206	112	81.2	70-130	25
Magnesium	103	1.00	"	82.4	22.1	97.7	70-130	25
Sodium	482	5.00	"	412	123	86.9	70-130	25

Matrix Spike Dup (1111101-MSD1)

Source: R111074-02

Prepared & Analyzed: 11/11/11

Calcium	457	2.50	mg/kg	201	112	171	70-130	48.2	25	QM-07
Magnesium	117	1.00	"	80.6	22.1	117	70-130	12.7	25	
Sodium	509	5.00	"	403	123	95.8	70-130	5.56	25	

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/18/11 12:31

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 07, 2011

Kristen Stocks
Entek GRB LLC
535 16th Street Suite 620
Denver, CO 80202
RE: Robidoux Pitt 13-15

Enclosed are the results of analyses for samples received by Summit Scientific on 11/04/11 11:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1	R111029-01	Soil	11/03/11 00:00	11/04/11 11:15
B2	R111029-02	Soil	11/03/11 00:00	11/04/11 11:15
SW1	R111029-03	Soil	11/03/11 00:00	11/04/11 11:15
SW2	R111029-04	Soil	11/03/11 00:00	11/04/11 11:15

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

B1
R111029-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1110407	11/04/11	11/05/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.6 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1110405	11/04/11	11/05/11	EPA 8260B	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

B2
R111029-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1110407	11/04/11	11/05/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.3 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1110405	11/04/11	11/05/11	EPA 8260B	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

SW1
R111029-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	370	50	mg/kg	1	1110407	11/04/11	11/05/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	78	50	"	"	"	"	"	"	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.6 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1110405	11/04/11	11/05/11	EPA 8260B	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Summit Scientific

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

SW2
R111029-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1110407	11/04/11	11/05/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.8 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	1110405	11/04/11	11/05/11	EPA 8260B	

Date Sampled: 11/03/11 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1110407 - EPA 3550A

Blank (1110407-BLK1)

Prepared & Analyzed: 11/04/11

C10-C28 (TEPH-DRO)	ND	50	mg/kg
C28-C36 (TEPH-ORO)	ND	50	"

Surrogate: o-Terphenyl	12.4	"	12.5	99.3	88.8-124
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LCS (1110407-BS1)

Prepared & Analyzed: 11/04/11

C10-C28 (TEPH-DRO)	566	50	mg/kg	501	113	85-129	11.8
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LCS Dup (1110407-BSD1)

Prepared & Analyzed: 11/04/11

C10-C28 (TEPH-DRO)	548	50	mg/kg	501	109	85-129	3.30	11.8
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Matrix Spike (1110407-MS1)

Source: R111023-01

Prepared: 11/04/11 Analyzed: 11/05/11

C10-C28 (TEPH-DRO)	542	50	mg/kg	501	34.8	101	77.3-134	8.39
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Matrix Spike Dup (1110407-MSD1)

Source: R111023-01

Prepared: 11/04/11 Analyzed: 11/05/11

C10-C28 (TEPH-DRO)	531	50	mg/kg	501	34.8	99.0	77.3-134	2.12	8.39
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535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15
Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

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 1110405 - EPA 5030 Soil MS

Blank (1110405-BLK1)

Prepared & Analyzed: 11/04/11

Gasoline Range Hydrocarbons	ND	0.50	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0374		"	0.0400		93.5	67.4-143			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0400		91.3	78.4-125			

LCS (1110405-BS1)

Prepared & Analyzed: 11/04/11

Gasoline Range Hydrocarbons	1.92	0.50	mg/kg				70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0466		"	0.0400		116	67.4-143			
Surrogate: Toluene-d8	0.0455		"	0.0400		114	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	78.4-125			

LCS Dup (1110405-BSD1)

Prepared: 11/04/11 Analyzed: 11/05/11

Gasoline Range Hydrocarbons	2.08	0.50	mg/kg				70-130	7.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.0449		"	0.0400		112	67.4-143			
Surrogate: Toluene-d8	0.0434		"	0.0400		109	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	78.4-125			

Matrix Spike (1110405-MS1)

Source: R111023-01

Prepared: 11/04/11 Analyzed: 11/05/11

Gasoline Range Hydrocarbons	2.07	0.50	mg/kg		ND		70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		113	67.4-143			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.7	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	78.4-125			

Matrix Spike Dup (1110405-MSD1)

Source: R111023-01

Prepared: 11/04/11 Analyzed: 11/05/11

Gasoline Range Hydrocarbons	2.06	0.50	mg/kg		ND		70-130	0.224	20	
Surrogate: 1,2-Dichloroethane-d4	0.0490		"	0.0400		123	67.4-143			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	78.4-125			

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Entek GRB LLC
535 16th Street Suite 620
Denver CO, 80202

Project: Robidoux Pitt 13-15

Project Number: [none]
Project Manager: Kristen Stocks

Reported:
11/07/11 15:48

Notes and Definitions

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

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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