

1625 Broadway
Suite 2200.
Denver, CO 80202



Tel: 303.228.4000
Fax: 303.228.4286
www.nobleenergyinc.com

North America Division

September 18, 2012

Mr. Chris Canfield
Department Of Natural Resources
Oil & Gas Conservation Commission
707 Wapiti Ct, Suite 204
Rifle, CO 81650

RE: Form 27, Excavation Report and Request for No Further Action
SGV 7N Pad
Facility #334127
SWSW Sec. 7, T8S, R95W
Garfield County, Colorado

Dear Mr. Canfield:

Please find attached a completed form 27 and excavation report for the SGV 7N Pad. Based on the site remedial activities and attached laboratory analysis Noble Energy Inc. is requesting that the COGCC consider this location closed, requiring no further action.

Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (303) 228-4158 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'R. Bruner'.
Ryan Bruner
Environmental and Regulatory Supervisor

Attachments

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): NFA

| | |
|---|--|
| OGCC Operator Number: 100322 | Contact Name and Telephone: |
| Name of Operator: Noble Energy, Inc. | Ryan Bruner |
| Address: 1625 Broadway, Suite 2200 | No: 303-228-4158 |
| City: Denver | Fax: 303-228-4286 |
| API Number: 05-045-14894 | County: Garfield |
| Facility Name: SGV 7N Pad | Facility Number: 334127 |
| Well Name: M Dutton | Well Number: 7-24C |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSW Sec. 7 T8S R95W 6PM | Latitude: 39.373135 Longitude: -108.044009 |

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced water

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

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Non-irrigated rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Ildefonso stony loam, 25-45% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well 2,655 southwest, unnamed ditch 116' north

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

| Impacted Media (check): | Extent of Impact: | How Determined: |
|---|-------------------|-----------------|
| <input checked="" type="checkbox"/> Soils | 38' x 5' x 5' | Excavation |
| <input type="checkbox"/> Vegetation | | |
| <input type="checkbox"/> Groundwater | | |
| <input type="checkbox"/> Surface Water | | |

REMEDIATION WORKPLAN

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

A leak in the water dump line from the separators to the tanks caused an unknown quantity of produced water to be released to the subsurface. The wellheads and separators were shut in and the leaking dump line was repaired. See Form 19 (Document #2221894).

Describe how source is to be removed:

Impacted soil was removed via excavation until clean sidewalls were obtained, and confirmation soil samples were collected. All soil samples were analyzed for BTEX, TPH, PAHs, and Table 910-1 metals (excluding Boron). All samples were in compliance with COGCC standards except arsenic, which was below background concentrations.

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.:

Impacted soil was removed via excavation and land farmed on site within a lined berm.



REMEDIATION WORKPLAN (Cont.)

Page 2

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____ M Dutton 7-24C
Facility Name & No: _____ SGV 7N Pad 334127

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

Groundwater was not encountered during excavation activities.

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.

Landfarmed soil will be used to backfill the excavation, and the original grade will be restored. The oil and gas production facility remains on site.

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

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

See attached report.

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

Approximately 40 cubic yards of impacted soil were land farmed on site in a lined berm.

IMPLEMENTATION SCHEDULE

| | | |
|--|--|---|
| Date Site Investigation Began: 5/16/12 | Date Site Investigation Completed: 5/29/12 | Date Remediation Plan Submitted: 8/7/12 |
| Remediation Start Date: 5/16/12 | Anticipated Completion Date: TBD | Actual Completion Date: TBD |

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

Print Name: Ryan Bruner Signed:

Title: Environmental and Regulatory Supervisor Date: 8/27/12

OGCC Approved: _____ Title: _____ Date: _____



July 26, 2012

Mr. Ryan Bruner
Environmental and Regulatory Supervisor
Noble Energy, Inc.
1625 Broadway, Suite 2200
Denver, Colorado 80202

**RE: Remediation Activity Summary Report/No Further Action
M Dutton 7-24C Tank Battery
Weld County, Colorado
COGCC Tracking #2221894**

Dear Mr. Bruner:

Noble Energy, Inc. (Noble) conducted environmental remediation and soil sampling activities following the identification of petroleum hydrocarbon impacted soil at the M Dutton 7-24C Tank Battery (Site). This correspondence describes the work conducted at the Site.

The legal site description is the southwest quarter of the southwest quarter of section 7, township 8 south, and range 95 west (Figure 1). The Site is located approximately 3.8 miles southeast of the intersection of Colorado Road 300 and Old US Highway 6 in Garfield County, Colorado.

A Noble contractor excavated approximately 40 cubic yards of impacted soil, which was land farmed onsite within a lined berm. The total extent of the excavation, as illustrated on Figure 2, was approximately 5 feet east-west by 38 feet north-south by 5 feet deep. Groundwater was not encountered during excavation activities. Land farmed soil will be used to backfill the excavation.

On May 16, 2012, Noble personnel were on site to oversee excavation activities, field screen soil, document site activities, conduct health and safety monitoring, and collect confirmation samples for laboratory analysis. Composite soil samples were collected from the impacted interval along the sidewalls and floor of the excavation. Each sample was field screened for volatile organic compounds with a photo-ionization detector to determine if additional excavation was required. Once field screening indicated impacted soil had been excavated, confirmation samples were collected and submitted to an analytical laboratory.

Four composite soil samples were collected from the excavation sidewalls, one soil sample was collected at the base of the excavation, and a composite sample was taken from the existing land farm and submitted to ALS Environmental Laboratory (ALS) of Houston, Texas, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by method SW8260, total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) by method SW8015, Table 910-1 metals (except boron) by methods SW6020, SW7471A, and SW7196, and polycyclic aromatic hydrocarbons (PAHs) by method SW8270. Four background

samples were collected at various points from the surrounding vegetated slope and submitted to ALS for analysis of arsenic (Figure 2).

The Colorado Oil and Gas Conservation Commission (COGCC) cleanup standards for BTEX in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, and 175 mg/kg, respectively. The COGCC standard for TPH in soil is 500 mg/kg.

Soil analytical results indicate that all arsenic concentrations exceed the COGCC soil standard of 0.39 milligrams per kilogram (mg/kg) but are below background concentrations. All other Table 910-1 metals, TPH, BTEX, and PAHs are in compliance with COGCC standards. The soil analytical results are summarized in Table 1 and Table 2. The laboratory analytical report is attached.

Per the excavation activities conducted at the Site, impacted soil exceeding state cleanup standards was removed and land farmed onsite. All soil samples exceeded the COGCC standard for arsenic, but were within the range of naturally occurring levels in the region. The excavation and land farm arsenic concentrations are less than the background concentrations. No Table 910-1 metals other than arsenic were detected in exceedance of COGCC standards in any of the soil samples collected from the excavation or land farm. The soil samples were also in compliance for the remaining Table 910-1 analytes analyzed. The Table 910-1 PAH concentrations are in compliance with the COGCC standards in the composite soil samples analyzed. Groundwater was not encountered, and a clean sample was collected from the base of the excavation. Based on the work described in this report, all impacted material has been remediated, and Noble therefore respectfully requests a No Further Action status for this Site.

LTE appreciates the opportunity to provide environmental services to Noble. Please call LTE at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.



Rob Rebel, P.E.
Project Engineer



Steve Kahn, P.E.
Principal

Attachments

- | | |
|------------|------------------------------|
| Figure 1 | Site Location Map |
| Figure 2 | Site Map |
| Table 1 | Soil Analytical Results |
| Table 2 | Soil PAH Analytical Results |
| Attachment | Laboratory Analytical Report |

FIGURES



LEGEND

SITE LOCATION

0 2,000 4,000
Feet



IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

FIGURE 1
SITE LOCATION MAP
M. DUTTON 7-24C (7N PAD)
GARFIELD COUNTY, COLORADO

NOBLE ENERGY, INC.





IMAGE COURTESY OF GOOGLE EARTH, 08/08/2011

0 80 160
Feet



FIGURE 2

SITE MAP

M. DUTTON 7-24C (7N PAD)
GARFIELD COUNTY, COLORADO

NOBLE ENERGY, INC.



- | |
|------------------------------|
| ● SOIL SAMPLE |
| ▲ LANDFARM COMPOSITE SAMPLE |
| ■ BACKGROUND SAMPLE |
| ★ RELEASE LOCATION |
| ● OIL AND GAS WELL |
| ↑ GROUNDWATER FLOW DIRECTION |
| EXCAVATION EXTENT |
| LANDFARM EXTENT |
| BERM |
| CURRENT INFRASTRUCTURE |

TABLES

TABLE 1

SOIL ANALYTICAL RESULTS
M DUTTON 7-24C
GARFIELD COUNTY, COLORADO
NOBLE ENERGY, INC.

| Location | Standard | Units | N01 | S01 | E01 | W01 | B01 | LANDFARM 01 | BACKGROUND 01 | BACKGROUND 02 | BACKGROUND 03 | BACKGROUND 04 |
|----------------|----------|-------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|
| Sample Date | | | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 |
| Arsenic | 0.39 | mg/kg | 1.54 | 1.71 | 1.88 | 2.02 | 2.26 | 1.70 | 3.28 | 4.96 | 5.25 | 4.87 |
| Barium | 15,000 | mg/kg | 2,070 | 569 | 251 | 424 | 353 | 492 | NA | NA | NA | NA |
| Cadmium | 70 | mg/kg | <0.0471 | <0.442 | <0.456 | <0.448 | <0.451 | <0.462 | NA | NA | NA | NA |
| Chromium (III) | 120,000 | mg/kg | 5.93 | 7.23 | 8.45 | 9.14 | 7.12 | 5.97 | NA | NA | NA | NA |
| Chromium (VI) | 23 | mg/kg | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | NA | NA | NA | NA |
| Copper | 3,100 | mg/kg | 14.9 | 17.6 | 23.2 | 19.0 | 17.5 | 15.0 | NA | NA | NA | NA |
| Lead | 400 | mg/kg | 7.38 | 7.97 | 8.85 | 8.82 | 11.0 | 6.47 | NA | NA | NA | NA |
| Mercury | 23 | mg/kg | 0.0297 | 0.0743 | 0.0613 | 0.0571 | 0.0485 | 0.0318 | NA | NA | NA | NA |
| Nickel | 1,600 | mg/kg | 9.07 | 11.1 | 14.6 | 16.9 | 8.49 | 9.59 | NA | NA | NA | NA |
| Selenium | 390 | mg/kg | 1.18 | 2.08 | 1.95 | 2.22 | 1.60 | 1.40 | NA | NA | NA | NA |
| Silver | 390 | mg/kg | <0.471 | <0.442 | <0.456 | <0.448 | <0.451 | <0.462 | NA | NA | NA | NA |
| Zinc | 23,000 | mg/kg | 38.4 | 43.5 | 54.7 | 61.7 | 41.5 | 37.5 | NA | NA | NA | NA |
| TPH-DRO | -- | mg/kg | 2.7 | 5.1 | <1.7 | 2.6 | 1.7 | 8.8 | NA | NA | NA | NA |
| TPH-GRO | -- | mg/kg | <0.050 | 0.057 | <0.050 | 0.32 | 0.17 | <0.050 | NA | NA | NA | NA |
| TPH | 500 | mg/kg | 2.7 | 5.157 | <1.75 | 2.92 | 1.87 | 8.8 | NA | NA | NA | NA |
| Benzene | 0.17 | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | NA | NA | NA | NA |
| Toluene | 85 | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | NA | NA | NA | NA |
| Ethylbenzene | 100 | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | NA | NA | NA | NA |
| m,p-Xylene | -- | mg/kg | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | NA | NA | NA | NA |
| o-Xylene | -- | mg/kg | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | NA | NA | NA | NA |
| Total Xylenes | 175 | mg/kg | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | NA | NA | NA | NA |

NOTES:

mg/kg - milligrams per kilogram

NA- not analyzed

TPH-GRO - total petroleum hydrocarbons - gasoline range organics analyzed by SW8015

TPH-DRO - total petroleum hydrocarbons - diesel range organics analyzed by SW8015

TPH Total - total petroleum hydrocarbons is the sum of TPH-GRO and TPH-DRO

< - indicates result is less than the stated laboratory reporting limit

BOLD - indicates result exceeds the applicable standard

Benzene, toluene, ethylbenzene, and total xylenes analyzed by SW8260

Metals by Methods SW6020, SW7471A, and SW7196

-- No standard

TABLE 2

SOIL PAH ANALYTICAL RESULTS
M DUTTON 7-24C
GARFIELD COUNTY, COLORADO
NOBLE ENERGY, INC.

| Analyte | Standard | Units | N01 | S01 | E01 | W01 | B01 | LANDFARM 01 |
|--------------------------|----------|-------|-----------|-----------|-----------|-----------|-----------|----------------|
| Sample Date | | | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 | 5/16/2012 |
| Acenaphthene | 1,000 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Anthracene | 1,000 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Benzo (a) anthracene | 0.22 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Benzo (b) fluoranthene | 0.22 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Benzo (k) fluoranthene | 2.2 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | 0.016 | <0.0066 |
| Benzo (a) pyrene | 0.022 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Chrysene | 22 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | 0.010 | <0.0066 |
| Dibenz (a,h) anthracene | 0.022 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Fluoranthene | 1,000 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | 0.0087 | <0.0066 |
| Fluorene | 1,000 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |
| Indeno (1,2,3-cd) pyrene | 0.22 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | 0.0086 | <0.0066 |
| Naphthalene | 23 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | 0.0083 | <0.0066 |
| Pyrene | 1000 | mg/kg | <0.0066 | <0.0066 | <0.0066 | <0.0064 | <0.0066 | <0.0066 |

NOTES:

PAH - polycyclic aromatic hydrocarbon

mg/kg - milligrams per kilogram

< - indicates result is less than the stated laboratory reporting limit

Analyzed by SW8270

ATTACHMENT
LABORATORY ANALYTICAL REPORT



29-May-2012

Asher Weinberg
Noble Energy
505 B East 8th Avenue
Yuma, Colorado 80759

Tel: (970) 625-1494
Fax: (970) 625-1654

Re: 7N

Work Order: **1205797**

Dear Asher,

ALS Environmental received 11 samples on 17-May-2012 09:05 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 32.

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

Sincerely,

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

Electronically approved by: Makenzie L. Henderson

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

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

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

Client: Noble Energy
Project: 7N
Work Order: 1205797

Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 1205797-01 | N01 | Soil | | 5/16/2012 12:08 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-02 | S01 | Soil | | 5/16/2012 12:08 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-03 | E01 | Soil | | 5/16/2012 12:08 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-04 | W01 | Soil | | 5/16/2012 12:08 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-05 | Landfarm 01 | Soil | | 5/16/2012 13:16 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-06 | Background 01 | Soil | | 5/16/2012 13:32 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-07 | Background 02 | Soil | | 5/16/2012 13:32 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-08 | Background 03 | Soil | | 5/16/2012 13:32 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-09 | Background 04 | Soil | | 5/16/2012 13:32 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-10 | B01 | Soil | | 5/16/2012 12:08 | 5/17/2012 09:05 | <input type="checkbox"/> |
| 1205797-11 | Trip Blank | Water | | 5/16/2012 | 5/17/2012 09:05 | <input type="checkbox"/> |

Client: Noble Energy
Project: 7N
Work Order: 1205797

Case Narrative

Batch 61273, Metals, Sample 1205824-01C: MS/MSD recoveries and RPD are for an unrelated sample.

Batch R128117, BTEX, Sample 1205678-02A: MS/MSD recoveries are for an unrelated sample.

ALS Environmental

Date: 29-May-12

Client: Noble Energy

Project: 7N

Sample ID: N01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-01

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|--------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | 2.7 | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:55 AM |
| Surr: 2-Fluorobiphenyl | 78.2 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 10:55 AM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | ND | | 0.050 mg/Kg | | 1 | | 5/24/2012 11:59 AM |
| Surr: 4-Bromofluorobenzene | 87.4 | | 70-130 %REC | | 1 | | 5/24/2012 11:59 AM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 5.93 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0297 | | 0.00347 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:46 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 1.54 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Barium | 2,070 | | 94.2 mg/Kg | | 200 | 5/22/2012 | 5/24/2012 07:37 PM |
| Cadmium | ND | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Chromium | 5.93 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Copper | 14.9 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Lead | 7.38 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Nickel | 9.07 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Selenium | 1.18 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Silver | ND | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| Zinc | 38.4 | | 0.471 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:35 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Benz(a)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Benzo(a)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Benzo(b)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Benzo(k)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Chrysene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Dibenz(a,h)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Fluorene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Naphthalene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Surr: 2-Fluorobiphenyl | 73.7 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Surr: 4-Terphenyl-d14 | 88.6 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |
| Surr: Nitrobenzene-d5 | 69.6 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:30 PM |

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

Client: Noble Energy

Project: 7N

Sample ID: N01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-01

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|------------------------------------|--------|------|--------------|-------|-----------------|-----------|------------------------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 | mg/Kg | 1 | | Analyst: WLR 5/21/2012 04:36 PM |
| Ethylbenzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 04:36 PM |
| m,p-Xylene | ND | | 0.010 | mg/Kg | 1 | | 5/21/2012 04:36 PM |
| o-Xylene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 04:36 PM |
| Toluene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 04:36 PM |
| Xylenes, Total | ND | | 0.015 | mg/Kg | 1 | | 5/21/2012 04:36 PM |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 93.0 | | 70-128 | %REC | 1 | | 5/21/2012 04:36 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 99.4 | | 73-126 | %REC | 1 | | 5/21/2012 04:36 PM |
| <i>Surr: Dibromofluoromethane</i> | 97.7 | | 71-128 | %REC | 1 | | 5/21/2012 04:36 PM |
| <i>Surr: Toluene-d8</i> | 97.1 | | 73-127 | %REC | 1 | | 5/21/2012 04:36 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 | mg/Kg | 1 | 5/25/2012 | Analyst: IAB 5/25/2012 03:00 PM |

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

ALS Environmental

Date: 29-May-12

Client: Noble Energy

Project: 7N

Sample ID: S01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-02

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|--------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | 5.1 | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:16 AM |
| Surr: 2-Fluorobiphenyl | 86.4 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 11:16 AM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | 0.057 | | 0.050 mg/Kg | | 1 | | 5/24/2012 12:16 PM |
| Surr: 4-Bromofluorobenzene | 74.0 | | 70-130 %REC | | 1 | | 5/24/2012 12:16 PM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 7.23 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0743 | | 0.00353 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:32 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 1.71 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Barium | 569 | | 44.2 mg/Kg | | 100 | 5/22/2012 | 5/24/2012 07:42 PM |
| Cadmium | ND | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Chromium | 7.23 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Copper | 17.6 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Lead | 7.97 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Nickel | 11.1 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Selenium | 2.08 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Silver | ND | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| Zinc | 43.5 | | 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 10:40 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Benz(a)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Benzo(a)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Benzo(b)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Benzo(k)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Chrysene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Dibenz(a,h)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Fluorene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Naphthalene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Surr: 2-Fluorobiphenyl | 79.1 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Surr: 4-Terphenyl-d14 | 89.9 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |
| Surr: Nitrobenzene-d5 | 72.6 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 09:49 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** S01**Collection Date:** 5/16/2012 12:08 PM**Work Order:** 1205797**Lab ID:** 1205797-02**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|------------------------------------|--------|------|--------------|-------|-----------------|-----------|--------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| Ethylbenzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| m,p-Xylene | ND | | 0.010 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| o-Xylene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| Toluene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| Xylenes, Total | ND | | 0.015 | mg/Kg | 1 | | 5/21/2012 05:03 PM |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 86.8 | | 70-128 | %REC | 1 | | 5/21/2012 05:03 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 98.0 | | 73-126 | %REC | 1 | | 5/21/2012 05:03 PM |
| <i>Surr: Dibromofluoromethane</i> | 95.5 | | 71-128 | %REC | 1 | | 5/21/2012 05:03 PM |
| <i>Surr: Toluene-d8</i> | 95.6 | | 73-127 | %REC | 1 | | 5/21/2012 05:03 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 | mg/Kg | 1 | 5/25/2012 | 5/25/2012 03:00 PM |

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

ALS Environmental

Date: 29-May-12

Client: Noble Energy

Project: 7N

Sample ID: E01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-03

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|---------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | ND | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:37 AM |
| Surr: 2-Fluorobiphenyl | 74.8 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 11:37 AM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | ND | | 0.050 mg/Kg | | 1 | | 5/24/2012 12:34 PM |
| Surr: 4-Bromofluorobenzene | 102 | | 70-130 %REC | | 1 | | 5/24/2012 12:34 PM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 8.45 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0613 | | 0.00362 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:48 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 1.88 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Barium | 251 | | 22.8 mg/Kg | | 50 | 5/22/2012 | 5/24/2012 07:46 PM |
| Cadmium | ND | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Chromium | 8.45 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Copper | 23.2 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Lead | 8.85 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Nickel | 14.6 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Selenium | 1.95 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Silver | ND | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| Zinc | 54.7 | | 0.456 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:06 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Benz(a)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Benzo(a)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Benzo(b)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Benzo(k)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Chrysene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Dibenz(a,h)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Fluorene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Naphthalene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Surr: 2-Fluorobiphenyl | 77.2 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Surr: 4-Terphenyl-d14 | 86.8 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |
| Surr: Nitrobenzene-d5 | 68.4 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:41 PM |

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

Client: Noble Energy

Project: 7N

Sample ID: E01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-03

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|-----------------------------|--------|------|--------------|-------|-----------------|-----------|------------------------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 mg/Kg | | 1 | | Analyst: WLR 5/21/2012 05:31 PM |
| Ethylbenzene | ND | | 0.0050 mg/Kg | | 1 | | 5/21/2012 05:31 PM |
| m,p-Xylene | ND | | 0.010 mg/Kg | | 1 | | 5/21/2012 05:31 PM |
| o-Xylene | ND | | 0.0050 mg/Kg | | 1 | | 5/21/2012 05:31 PM |
| Toluene | ND | | 0.0050 mg/Kg | | 1 | | 5/21/2012 05:31 PM |
| Xylenes, Total | ND | | 0.015 mg/Kg | | 1 | | 5/21/2012 05:31 PM |
| Surr: 1,2-Dichloroethane-d4 | 88.0 | | 70-128 %REC | | 1 | | 5/21/2012 05:31 PM |
| Surr: 4-Bromofluorobenzene | 97.5 | | 73-126 %REC | | 1 | | 5/21/2012 05:31 PM |
| Surr: Dibromofluoromethane | 92.9 | | 71-128 %REC | | 1 | | 5/21/2012 05:31 PM |
| Surr: Toluene-d8 | 96.2 | | 73-127 %REC | | 1 | | 5/21/2012 05:31 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 mg/Kg | | 1 | 5/25/2012 | Analyst: IAB 5/25/2012 03:00 PM |

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

ALS Environmental

Date: 29-May-12

Client: Noble Energy

Project: 7N

Sample ID: W01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-04

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|--------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | 2.6 | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:13 AM |
| Surr: 2-Fluorobiphenyl | 76.0 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 10:13 AM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | 0.32 | | 0.050 mg/Kg | | 1 | | 5/24/2012 12:52 PM |
| Surr: 4-Bromofluorobenzene | 103 | | 70-130 %REC | | 1 | | 5/24/2012 12:52 PM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 9.14 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0571 | | 0.00361 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:50 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 2.02 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Barium | 424 | | 44.8 mg/Kg | | 100 | 5/22/2012 | 5/24/2012 07:51 PM |
| Cadmium | ND | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Chromium | 9.14 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Copper | 19.0 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Lead | 8.82 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Nickel | 16.9 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Selenium | 2.22 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Silver | ND | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| Zinc | 61.7 | | 0.448 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:11 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Anthracene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Benz(a)anthracene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Benzo(a)pyrene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Benzo(b)fluoranthene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Benzo(k)fluoranthene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Chrysene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Dibenz(a,h)anthracene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Fluoranthene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Fluorene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Naphthalene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Pyrene | ND | | 0.0064 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Surr: 2-Fluorobiphenyl | 64.6 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Surr: 4-Terphenyl-d14 | 85.0 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |
| Surr: Nitrobenzene-d5 | 55.8 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:26 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** W01**Collection Date:** 5/16/2012 12:08 PM**Work Order:** 1205797**Lab ID:** 1205797-04**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|------------------------------------|--------|------|--------------|-------|-----------------|-----------|--------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| Ethylbenzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| m,p-Xylene | ND | | 0.010 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| o-Xylene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| Toluene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| Xylenes, Total | ND | | 0.015 | mg/Kg | 1 | | 5/21/2012 05:59 PM |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 92.3 | | 70-128 | %REC | 1 | | 5/21/2012 05:59 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 97.7 | | 73-126 | %REC | 1 | | 5/21/2012 05:59 PM |
| <i>Surr: Dibromofluoromethane</i> | 98.2 | | 71-128 | %REC | 1 | | 5/21/2012 05:59 PM |
| <i>Surr: Toluene-d8</i> | 95.3 | | 73-127 | %REC | 1 | | 5/21/2012 05:59 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 | mg/Kg | 1 | 5/25/2012 | 5/25/2012 03:00 PM |

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

ALS Environmental

Date: 29-May-12

Client: Noble Energy

Project: 7N

Sample ID: Landfarm 01

Collection Date: 5/16/2012 01:16 PM

Work Order: 1205797

Lab ID: 1205797-05

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|---------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | 8.8 | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:34 AM |
| Surr: 2-Fluorobiphenyl | 74.8 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 10:34 AM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | ND | | 0.050 mg/Kg | | 1 | | 5/24/2012 01:10 PM |
| Surr: 4-Bromofluorobenzene | 76.5 | | 70-130 %REC | | 1 | | 5/24/2012 01:10 PM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 5.97 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0318 | | 0.00342 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:52 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 1.70 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Barium | 492 | | 46.2 mg/Kg | | 100 | 5/22/2012 | 5/24/2012 07:55 PM |
| Cadmium | ND | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Chromium | 5.97 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Copper | 15.0 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Lead | 6.47 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Nickel | 9.59 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Selenium | 1.40 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Silver | ND | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| Zinc | 37.5 | | 0.462 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:15 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Benz(a)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Benzo(a)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Benzo(b)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Benzo(k)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Chrysene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Dibenz(a,h)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Fluorene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Naphthalene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Surr: 2-Fluorobiphenyl | 75.4 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Surr: 4-Terphenyl-d14 | 84.6 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |
| Surr: Nitrobenzene-d5 | 68.5 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 10:45 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** Landfarm 01**Collection Date:** 5/16/2012 01:16 PM**Work Order:** 1205797**Lab ID:** 1205797-05**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|------------------------------------|--------|------|--------------|-------|-----------------|-----------|--------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| Ethylbenzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| m,p-Xylene | ND | | 0.010 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| o-Xylene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| Toluene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| Xylenes, Total | ND | | 0.015 | mg/Kg | 1 | | 5/21/2012 06:27 PM |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 91.5 | | 70-128 | %REC | 1 | | 5/21/2012 06:27 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 98.0 | | 73-126 | %REC | 1 | | 5/21/2012 06:27 PM |
| <i>Surr: Dibromofluoromethane</i> | 97.2 | | 71-128 | %REC | 1 | | 5/21/2012 06:27 PM |
| <i>Surr: Toluene-d8</i> | 96.6 | | 73-127 | %REC | 1 | | 5/21/2012 06:27 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 | mg/Kg | 1 | 5/25/2012 | 5/25/2012 03:00 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** Background 01**Collection Date:** 5/16/2012 01:32 PM**Work Order:** 1205797**Lab ID:** 1205797-06**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|-------------------|--------|------|-----------------------|-------|-----------------|-----------|--------------------|
| METALS Arsenic | 3.28 | | SW6020 0.449 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:19 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** Background 02**Collection Date:** 5/16/2012 01:32 PM**Work Order:** 1205797**Lab ID:** 1205797-07**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|-------------------|--------|------|-----------------------|-------|-----------------|-----------|--------------------|
| METALS Arsenic | 4.96 | | SW6020 0.442 mg/Kg | | 1 | 5/22/2012 | 5/23/2012 11:24 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** Background 03**Collection Date:** 5/16/2012 01:32 PM**Work Order:** 1205797**Lab ID:** 1205797-08**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|-------------------|--------|------|-----------------------|-------|-----------------|-----------|--------------------|
| METALS Arsenic | 5.25 | | SW6020 0.967 mg/Kg | | 2 | 5/22/2012 | 5/24/2012 08:33 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** Background 04**Collection Date:** 5/16/2012 01:32 PM**Work Order:** 1205797**Lab ID:** 1205797-09**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|-------------------|--------|------|-----------------------|-------|-----------------|-----------|--------------------|
| METALS Arsenic | 4.87 | | SW6020 0.900 mg/Kg | | 2 | 5/22/2012 | 5/24/2012 08:37 PM |

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

Client: Noble Energy

Project: 7N

Sample ID: B01

Collection Date: 5/16/2012 12:08 PM

Work Order: 1205797

Lab ID: 1205797-10

Matrix: SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|--|--------|------|--------------------|-------|-----------------|-----------|--------------------|
| TPH AND MISCELLANEOUS GCFID | | | SW8015M | | | | Analyst: KMB |
| DRO (>C10 - C28) | 1.7 | | 1.7 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 02:55 PM |
| Surr: 2-Fluorobiphenyl | 63.5 | | 60-135 %REC | | 1 | 5/23/2012 | 5/23/2012 02:55 PM |
| GASOLINE RANGE ORGANICS - SW8015C | | | SW8015 | | | | Analyst: SMA |
| Gasoline Range Organics | 0.17 | | 0.050 mg/Kg | | 1 | | 5/24/2012 01:28 PM |
| Surr: 4-Bromofluorobenzene | 90.0 | | 70-130 %REC | | 1 | | 5/24/2012 01:28 PM |
| TRIVALENT CHROMIUM | | | CALCULATION | | | | Analyst: SKS |
| Chromium, Trivalent | 7.12 | | 5.00 mg/Kg | | 1 | | 5/25/2012 |
| MERCURY - SW7471B | | | SW7471A | | | | Analyst: JCJ |
| Mercury | 0.0485 | | 0.00356 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 06:58 PM |
| METALS | | | SW6020 | | | | Analyst: ALR |
| Arsenic | 2.26 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Barium | 353 | | 22.5 mg/Kg | | 50 | 5/22/2012 | 5/24/2012 08:00 PM |
| Cadmium | ND | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Chromium | 7.12 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Copper | 17.5 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Lead | 11.0 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Nickel | 8.49 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Selenium | 1.60 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Silver | ND | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| Zinc | 41.5 | | 0.451 mg/Kg | | 1 | 5/22/2012 | 5/24/2012 08:42 PM |
| LOW-LEVEL PAHS | | | SW8270 | | | | Analyst: LG |
| Acenaphthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Benz(a)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Benzo(a)pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Benzo(b)fluoranthene | 0.016 | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Benzo(k)fluoranthene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Chrysene | 0.010 | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Dibenz(a,h)anthracene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Fluoranthene | 0.0087 | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Fluorene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Indeno(1,2,3-cd)pyrene | 0.0086 | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Naphthalene | 0.0083 | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Pyrene | ND | | 0.0066 mg/Kg | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Surr: 2-Fluorobiphenyl | 78.4 | | 43-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Surr: 4-Terphenyl-d14 | 88.2 | | 32-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |
| Surr: Nitrobenzene-d5 | 70.4 | | 37-125 %REC | | 1 | 5/23/2012 | 5/23/2012 11:04 PM |

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

ALS Environmental**Date:** 29-May-12**Client:** Noble Energy**Project:** 7N**Sample ID:** B01**Collection Date:** 5/16/2012 12:08 PM**Work Order:** 1205797**Lab ID:** 1205797-10**Matrix:** SOIL

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Prep | Date Analyzed |
|------------------------------------|--------|------|--------------|-------|-----------------|-----------|--------------------|
| VOLATILES | | | | | | | |
| Benzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| Ethylbenzene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| m,p-Xylene | ND | | 0.010 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| o-Xylene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| Toluene | ND | | 0.0050 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| Xylenes, Total | ND | | 0.015 | mg/Kg | 1 | | 5/21/2012 06:55 PM |
| <i>Surr: 1,2-Dichloroethane-d4</i> | 97.4 | | 70-128 | %REC | 1 | | 5/21/2012 06:55 PM |
| <i>Surr: 4-Bromofluorobenzene</i> | 101 | | 73-126 | %REC | 1 | | 5/21/2012 06:55 PM |
| <i>Surr: Dibromofluoromethane</i> | 100 | | 71-128 | %REC | 1 | | 5/21/2012 06:55 PM |
| <i>Surr: Toluene-d8</i> | 95.0 | | 73-127 | %REC | 1 | | 5/21/2012 06:55 PM |
| HEXAVALENT CHROMIUM | | | | | | | |
| Chromium, Hexavalent | ND | | 2.00 | mg/Kg | 1 | 5/25/2012 | 5/25/2012 03:00 PM |

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

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

| Batch ID: 61295 | | Instrument ID FID-7 | | Method: SW8015M | | | | | | | | | | | | |
|--|--------------------------------|---------------------|---|-----------------|----------------------|------------------|----------------|-------------|-----------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MBLK | Sample ID: FBLKS1-120523-61295 | | Units: mg/Kg | | | | | | | Analysis Date: 5/23/2012 10:13 AM | | | | | | |
| Client ID: | Run ID: FID-7_120523A | | SeqNo: 2791860 | | Prep Date: 5/23/2012 | | | DF: 1 | | | | | | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | | | |
| DRO (>C10 - C28) Surr: 2-Fluorobiphenyl | ND 3.465 | 1.7 0 | 3.3 | 0 | 105 | 60-135 | | 0 | | | | | | | | |
| LCS | Sample ID: FLCSS1-120523-61295 | | Units: mg/Kg | | | | | | | Analysis Date: 5/23/2012 10:34 AM | | | | | | |
| Client ID: | Run ID: FID-7_120523A | | SeqNo: 2791861 | | Prep Date: 5/23/2012 | | | DF: 1 | | | | | | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | | | |
| DRO (>C10 - C28) Surr: 2-Fluorobiphenyl | 36.27 3.864 | 1.7 0 | 33.3 3.3 | 0 | 109 117 | 70-130 60-135 | | 0 | | | | | | | | |
| MS | Sample ID: 1205809-02AMS | | Units: mg/Kg | | | | | | | Analysis Date: 5/23/2012 12:26 PM | | | | | | |
| Client ID: | Run ID: FID-7_120523A | | SeqNo: 2791866 | | Prep Date: 5/23/2012 | | | DF: 1 | | | | | | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | | | |
| DRO (>C10 - C28) Surr: 2-Fluorobiphenyl | 40.46 3.455 | 1.7 0 | 33.28 3.298 | 0.5535 0 | 120 105 | 70-130 60-135 | | 0 | | | | | | | | |
| MSD | Sample ID: 1205809-02AMSD | | Units: mg/Kg | | | | | | | Analysis Date: 5/23/2012 12:47 PM | | | | | | |
| Client ID: | Run ID: FID-7_120523A | | SeqNo: 2791867 | | Prep Date: 5/23/2012 | | | DF: 1 | | | | | | | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | | | | |
| DRO (>C10 - C28) Surr: 2-Fluorobiphenyl | 36.02 3.139 | 1.7 0 | 33.29 3.299 | 0.5535 0 | 107 95.1 | 70-130 60-135 | 40.46 3.455 | 11.6 9.6 | 30 30 | | | | | | | |
| The following samples were analyzed in this batch: | | | <table border="1"> <tr> <td>1205797-01D</td><td>1205797-02D</td><td>1205797-03D</td></tr> <tr> <td>1205797-04D</td><td>1205797-05D</td><td>1205797-10D</td></tr> </table> | | | | | | | | 1205797-01D | 1205797-02D | 1205797-03D | 1205797-04D | 1205797-05D | 1205797-10D |
| 1205797-01D | 1205797-02D | 1205797-03D | | | | | | | | | | | | | | |
| 1205797-04D | 1205797-05D | 1205797-10D | | | | | | | | | | | | | | |

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

QC Page: 1 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **R128507** Instrument ID **FID-9** Method: **SW8015**

| Sample ID: GBLKS1-120524-R128507 | | | | Units: mg/Kg | | Analysis Date: 5/24/2012 10:30 AM | | | |
|---|--|--|--|---------------------|--|--|--|--|--|
|---|--|--|--|---------------------|--|--|--|--|--|

| | | | | | | | | | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|
| Client ID: | Run ID: FID-9_120524A | | | SeqNo: 2796486 | | Prep Date: | | DF: 1 | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics | ND | 0.050 | | | | | | | | |
| <i>Surr: 4-Bromofluorobenzene</i> | 0.08434 | 0.0050 | 0.1 | 0 | 84.3 | 70-130 | 0 | 0 | | |

| Sample ID: GLCSS1-120524-R128507 | | | | Units: mg/Kg | | Analysis Date: 5/24/2012 09:54 AM | | | |
|---|--|--|--|---------------------|--|--|--|--|--|
|---|--|--|--|---------------------|--|--|--|--|--|

| | | | | | | | | | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|
| Client ID: | Run ID: FID-9_120524A | | | SeqNo: 2796484 | | Prep Date: | | DF: 1 | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------------|--------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics | 0.9204 | 0.050 | 1 | 0 | 92 | 70-130 | 0 | 0 | | |
| <i>Surr: 4-Bromofluorobenzene</i> | 0.075 | 0.0050 | 0.1 | 0 | 75 | 70-130 | 0 | 0 | | |

| Sample ID: GLCSDS1-120524-R128507 | | | | Units: mg/Kg | | Analysis Date: 5/24/2012 10:12 AM | | | |
|--|--|--|--|---------------------|--|--|--|--|--|
|--|--|--|--|---------------------|--|--|--|--|--|

| | | | | | | | | | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|
| Client ID: | Run ID: FID-9_120524A | | | SeqNo: 2796485 | | Prep Date: | | DF: 1 | |
|------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics | 0.9644 | 0.050 | 1 | 0 | 96.4 | 70-130 | 0.9204 | 4.67 | 30 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 0.07687 | 0.0050 | 0.1 | 0 | 76.9 | 70-130 | 0.075 | 2.47 | 30 | |

| Sample ID: 1205797-03BMS | | | | Units: mg/Kg | | Analysis Date: 5/24/2012 02:28 PM | | | |
|---------------------------------|--|--|--|---------------------|--|--|--|--|--|
|---------------------------------|--|--|--|---------------------|--|--|--|--|--|

| | | | | | | | | | |
|-----------------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|
| Client ID: E01 | Run ID: FID-9_120524A | | | SeqNo: 2796494 | | Prep Date: | | DF: 1 | |
|-----------------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics | 0.9279 | 0.050 | 1 | 0 | 92.8 | 70-130 | 0 | 0 | | |
| <i>Surr: 4-Bromofluorobenzene</i> | 0.07788 | 0.0050 | 0.1 | 0 | 77.9 | 70-130 | 0 | 0 | | |

| Sample ID: 1205797-03BMSD | | | | Units: mg/Kg | | Analysis Date: 5/24/2012 02:46 PM | | | |
|----------------------------------|--|--|--|---------------------|--|--|--|--|--|
|----------------------------------|--|--|--|---------------------|--|--|--|--|--|

| | | | | | | | | | |
|-----------------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|
| Client ID: E01 | Run ID: FID-9_120524A | | | SeqNo: 2796495 | | Prep Date: | | DF: 1 | |
|-----------------------|------------------------------|--|--|-----------------------|--|------------|--|--------------|--|

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|-----------------------------------|---------|--------|---------|---------------|------|---------------|---------------|------|-----------|------|
| Gasoline Range Organics | 1.049 | 0.050 | 1 | 0 | 105 | 70-130 | 0.9279 | 12.2 | 30 | |
| <i>Surr: 4-Bromofluorobenzene</i> | 0.08655 | 0.0050 | 0.1 | 0 | 86.6 | 70-130 | 0.07788 | 10.5 | 30 | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01B | 1205797-02B | 1205797-03B |
| 1205797-04B | 1205797-05B | 1205797-10B |

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

QC Page: 2 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **61273** Instrument ID **ICPMS03** Method: **SW6020**

| MBLK | Sample ID: MBLKS3-052212-61273 | | | Units: mg/Kg | | Analysis Date: 5/23/2012 03:36 PM | | | |
|-------------|---------------------------------------|------|---------|-----------------------|------|--|---------------|--------------|-----------|
| Client ID: | Run ID: ICPMS03_120523A | | | SeqNo: 2791919 | | Prep Date: 5/22/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit |
| Arsenic | ND | 0.50 | | | | | | | |
| Barium | 0.2197 | 0.50 | | | | | | | J |
| Cadmium | ND | 0.50 | | | | | | | |
| Chromium | ND | 0.50 | | | | | | | |
| Copper | ND | 0.50 | | | | | | | |
| Lead | ND | 0.50 | | | | | | | |
| Nickel | ND | 0.50 | | | | | | | |
| Selenium | ND | 0.50 | | | | | | | |
| Silver | ND | 0.50 | | | | | | | |
| Zinc | ND | 0.50 | | | | | | | |

| LCS | Sample ID: MLCSS3-052212-61273 | | | Units: mg/Kg | | Analysis Date: 5/23/2012 03:05 PM | | | |
|------------|---------------------------------------|------|---------|-----------------------|------|--|---------------|--------------|-----------|
| Client ID: | Run ID: ICPMS03_120523A | | | SeqNo: 2791909 | | Prep Date: 5/22/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit |
| Arsenic | 9.277 | 0.50 | 10 | 0 | 92.8 | 80-120 | | 0 | |
| Barium | 9.657 | 0.50 | 10 | 0 | 96.6 | 80-120 | | 0 | |
| Cadmium | 9.583 | 0.50 | 10 | 0 | 95.8 | 80-120 | | 0 | |
| Chromium | 9.556 | 0.50 | 10 | 0 | 95.6 | 80-120 | | 0 | |
| Copper | 9.505 | 0.50 | 10 | 0 | 95 | 80-120 | | 0 | |
| Lead | 9.715 | 0.50 | 10 | 0 | 97.2 | 80-120 | | 0 | |
| Nickel | 9.4 | 0.50 | 10 | 0 | 94 | 80-120 | | 0 | |
| Selenium | 9.458 | 0.50 | 10 | 0 | 94.6 | 80-120 | | 0 | |
| Silver | 9.513 | 0.50 | 10 | 0 | 95.1 | 80-120 | | 0 | |
| Zinc | 9.353 | 0.50 | 10 | 0 | 93.5 | 80-120 | | 0 | |

| MS | Sample ID: 1205824-01CMS | | | Units: mg/Kg | | Analysis Date: 5/23/2012 07:55 PM | | | |
|------------|---------------------------------|------|---------|-----------------------|------|--|---------------|--------------|-----------|
| Client ID: | Run ID: ICPMS03_120523A | | | SeqNo: 2792850 | | Prep Date: 5/22/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit |
| Arsenic | 11.34 | 0.46 | 9.162 | 3.326 | 87.5 | 75-125 | | 0 | |
| Barium | 977.6 | 0.46 | 9.162 | 271.6 | 7710 | 75-125 | | 0 | SEO |
| Cadmium | 8.553 | 0.46 | 9.162 | 0.2206 | 91 | 75-125 | | 0 | |
| Chromium | 20.22 | 0.46 | 9.162 | 10.99 | 101 | 75-125 | | 0 | |
| Copper | 18.71 | 0.46 | 9.162 | 10.13 | 93.7 | 75-125 | | 0 | |
| Lead | 17.47 | 0.46 | 9.162 | 8.967 | 92.8 | 75-125 | | 0 | |
| Nickel | 20.16 | 0.46 | 9.162 | 11.72 | 92.1 | 75-125 | | 0 | |
| Selenium | 9.14 | 0.46 | 9.162 | 1.22 | 86.4 | 75-125 | | 0 | |
| Silver | 7.729 | 0.46 | 9.162 | 0.005842 | 84.3 | 75-125 | | 0 | |
| Zinc | 49.02 | 0.46 | 9.162 | 38.23 | 118 | 75-125 | | 0 | O |

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

QC Page: 3 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **61273** Instrument ID **ICPMS03** Method: **SW6020**

| MSD Sample ID: 1205824-01CMSD | | | | Units: mg/Kg | | | Analysis Date: 5/23/2012 08:00 PM | | | |
|---|--------|--------------------------------|---------|-----------------------|-------|-----------------------------|--|--------------|-----------|------|
| Client ID: | | Run ID: ICPMS03_120523A | | SeqNo: 2792851 | | Prep Date: 5/22/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 10.95 | 0.45 | 9.042 | 3.326 | 84.3 | 75-125 | 11.34 | 3.52 | 25 | |
| Barium | 269.2 | 0.45 | 9.042 | 271.6 | -26.4 | 75-125 | 977.6 | 114 | 25 | SREO |
| Cadmium | 8.08 | 0.45 | 9.042 | 0.2206 | 86.9 | 75-125 | 8.553 | 5.69 | 25 | |
| Chromium | 23.5 | 0.45 | 9.042 | 10.99 | 138 | 75-125 | 20.22 | 15 | 25 | S |
| Copper | 18.07 | 0.45 | 9.042 | 10.13 | 87.8 | 75-125 | 18.71 | 3.49 | 25 | |
| Lead | 17.18 | 0.45 | 9.042 | 8.967 | 90.8 | 75-125 | 17.47 | 1.68 | 25 | |
| Nickel | 20.04 | 0.45 | 9.042 | 11.72 | 92 | 75-125 | 20.16 | 0.631 | 25 | |
| Selenium | 9 | 0.45 | 9.042 | 1.22 | 86 | 75-125 | 9.14 | 1.54 | 25 | |
| Silver | 7.617 | 0.45 | 9.042 | 0.005842 | 84.2 | 75-125 | 7.729 | 1.45 | 25 | |
| Zinc | 46.53 | 0.45 | 9.042 | 38.23 | 91.8 | 75-125 | 49.02 | 5.22 | 25 | O |

| DUP Sample ID: 1205824-01CDUP | | | | Units: mg/Kg | | | Analysis Date: 5/23/2012 07:46 PM | | | |
|---|--------|--------------------------------|---------|-----------------------|------|-----------------------------|--|--------------|-----------|------|
| Client ID: | | Run ID: ICPMS03_120523A | | SeqNo: 2792848 | | Prep Date: 5/22/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 3.358 | 0.46 | 0 | 0 | 0 | 0-0 | 3.326 | 0.978 | 25 | |
| Cadmium | 0.242 | 0.46 | 0 | 0 | 0 | 0-0 | 0.2206 | 0 | 25 | J |
| Chromium | 11.43 | 0.46 | 0 | 0 | 0 | 0-0 | 10.99 | 3.92 | 25 | |
| Copper | 10.72 | 0.46 | 0 | 0 | 0 | 0-0 | 10.13 | 5.67 | 25 | |
| Lead | 9.257 | 0.46 | 0 | 0 | 0 | 0-0 | 8.967 | 3.19 | 25 | |
| Nickel | 12.21 | 0.46 | 0 | 0 | 0 | 0-0 | 11.72 | 4.1 | 25 | |
| Selenium | 1.294 | 0.46 | 0 | 0 | 0 | 0-0 | 1.22 | 5.95 | 25 | |
| Silver | ND | 0.46 | 0 | 0 | 0 | 0-0 | 0.005842 | 0 | 25 | |
| Zinc | 39.14 | 0.46 | 0 | 0 | 0 | 0-0 | 38.23 | 2.36 | 25 | |

| DUP Sample ID: 1205824-01CDUP | | | | Units: mg/Kg | | | Analysis Date: 5/24/2012 01:56 PM | | | |
|---|--------|--------------------------------|---------|-----------------------|------|-----------------------------|--|---------------|-----------|------|
| Client ID: | | Run ID: ICPMS03_120524A | | SeqNo: 2793707 | | Prep Date: 5/22/2012 | | DF: 50 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Barium | 294.6 | 23 | 0 | 0 | 0 | 0-0 | 252 | 15.6 | 25 | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01C | 1205797-02C | 1205797-03C |
| 1205797-04C | 1205797-05C | 1205797-06A |
| 1205797-07A | 1205797-08A | 1205797-09A |
| 1205797-10C | | |

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

QC Page: 4 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **61304** Instrument ID **HG02** Method: **SW7471A**

| MBLK Sample ID: GBLKS3-052312-61304 | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:25 PM | | | | |
|---|--------|-----|---------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: Run ID: HG02_120523A | | | | SeqNo: 2792636 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Mercury | ND | | 3.3 | | | | | | | |
| LCS Sample ID: GLCSS3-052312-61304 | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:27 PM | | | | |
| Client ID: Run ID: HG02_120523A | | | | SeqNo: 2792637 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Mercury | 332.7 | 3.3 | 333.3 | 0 | 99.8 | 85-115 | | 0 | | |
| MS Sample ID: 1205797-02CMS | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:36 PM | | | | |
| Client ID: S01 Run ID: HG02_120523A | | | | SeqNo: 2792640 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Mercury | 386.3 | 3.6 | 361.7 | 74.34 | 86.2 | 85-115 | | 0 | | |
| MSD Sample ID: 1205797-02CMSP | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:38 PM | | | | |
| Client ID: S01 Run ID: HG02_120523A | | | | SeqNo: 2792641 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Mercury | 389.9 | 3.6 | 362.3 | 74.34 | 87.1 | 85-115 | 386.3 | 0.927 | 20 | |
| DUP Sample ID: 1205797-02CDUP | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:34 PM | | | | |
| Client ID: S01 Run ID: HG02_120523A | | | | SeqNo: 2792639 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Mercury | 74.15 | 3.6 | 0 | 0 | 0 | | 74.34 | 0.246 | 20 | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01C | 1205797-02C | 1205797-03C |
| 1205797-04C | 1205797-05C | 1205797-10C |

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

QC Page: 5 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **61306** Instrument ID **SV-6** Method: **SW8270**

| MBLK Sample ID: SBLKS1-120523-61306 | | | Units: µg/Kg | | | Analysis Date: 5/23/2012 05:07 PM | | | | |
|---|--------|-----------------------------|---------------------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: | | Run ID: SV-6_120523A | | SeqNo: 2792742 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Acenaphthene | ND | 6.6 | | | | | | | | |
| Anthracene | ND | 6.6 | | | | | | | | |
| Benz(a)anthracene | ND | 6.6 | | | | | | | | |
| Benzo(a)pyrene | ND | 6.6 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 6.6 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 6.6 | | | | | | | | |
| Chrysene | ND | 6.6 | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 6.6 | | | | | | | | |
| Fluoranthene | ND | 6.6 | | | | | | | | |
| Fluorene | ND | 6.6 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 6.6 | | | | | | | | |
| Naphthalene | ND | 6.6 | | | | | | | | |
| Pyrene | ND | 6.6 | | | | | | | | |
| <i>Surr: 2-Fluorobiphenyl</i> | 146.4 | 6.6 | 166.7 | 0 | 87.9 | 43-125 | 0 | | | |
| <i>Surr: 4-Terphenyl-d14</i> | 159.2 | 6.6 | 166.7 | 0 | 95.5 | 32-125 | 0 | | | |
| <i>Surr: Nitrobenzene-d5</i> | 136.7 | 6.6 | 166.7 | 0 | 82 | 37-125 | 0 | | | |

| LCS Sample ID: SLCSS1-120523-61306 | | | Units: µg/Kg | | | Analysis Date: 5/23/2012 05:26 PM | | | | |
|--|--------|-----------------------------|---------------------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: | | Run ID: SV-6_120523A | | SeqNo: 2792743 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Acenaphthene | 127 | 6.6 | 166.7 | 0 | 76.2 | 50-120 | 0 | | | |
| Anthracene | 148.1 | 6.6 | 166.7 | 0 | 88.9 | 50-123 | 0 | | | |
| Benz(a)anthracene | 157.2 | 6.6 | 166.7 | 0 | 94.3 | 50-131 | 0 | | | |
| Benzo(a)pyrene | 153.1 | 6.6 | 166.7 | 0 | 91.9 | 50-130 | 0 | | | |
| Benzo(b)fluoranthene | 183.1 | 6.6 | 166.7 | 0 | 110 | 50-137 | 0 | | | |
| Benzo(k)fluoranthene | 156.6 | 6.6 | 166.7 | 0 | 94 | 50-143 | 0 | | | |
| Chrysene | 146.7 | 6.6 | 166.7 | 0 | 88 | 50-130 | 0 | | | |
| Dibenz(a,h)anthracene | 157.1 | 6.6 | 166.7 | 0 | 94.3 | 50-130 | 0 | | | |
| Fluoranthene | 151.2 | 6.6 | 166.7 | 0 | 90.7 | 50-131 | 0 | | | |
| Fluorene | 143 | 6.6 | 166.7 | 0 | 85.8 | 50-125 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 175.2 | 6.6 | 166.7 | 0 | 105 | 45-139 | 0 | | | |
| Naphthalene | 135.1 | 6.6 | 166.7 | 0 | 81.1 | 50-125 | 0 | | | |
| Pyrene | 145.6 | 6.6 | 166.7 | 0 | 87.4 | 45-130 | 0 | | | |
| <i>Surr: 2-Fluorobiphenyl</i> | 146.5 | 6.6 | 166.7 | 0 | 87.9 | 43-125 | 0 | | | |
| <i>Surr: 4-Terphenyl-d14</i> | 159.8 | 6.6 | 166.7 | 0 | 95.9 | 32-125 | 0 | | | |
| <i>Surr: Nitrobenzene-d5</i> | 135.8 | 6.6 | 166.7 | 0 | 81.5 | 37-125 | 0 | | | |

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

QC Page: 6 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **61306** Instrument ID **SV-6** Method: **SW8270**

| MS | Sample ID: 1205824-01BMS | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:03 PM | | | |
|------------------------|---------------------------------|-----|---------|-----------------------|---------------------|-----------------------------|--|--------------|-----------|------|
| Client ID: | Run ID: SV-6_120523A | | | SeqNo: 2792745 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Acenaphthene | 158.7 | 6.6 | 166.1 | 21.66 | 82.5 | 50-120 | | 0 | | |
| Anthracene | 154.6 | 6.6 | 166.1 | 13.76 | 84.8 | 50-123 | | 0 | | |
| Benz(a)anthracene | 155.8 | 6.6 | 166.1 | 0 | 93.8 | 50-131 | | 0 | | |
| Benzo(a)pyrene | 148.8 | 6.6 | 166.1 | 6.41 | 85.7 | 50-130 | | 0 | | |
| Benzo(b)fluoranthene | 160.1 | 6.6 | 166.1 | 3.912 | 94 | 50-137 | | 0 | | |
| Benzo(k)fluoranthene | 144.2 | 6.6 | 166.1 | 3.477 | 84.7 | 50-143 | | 0 | | |
| Chrysene | 169.6 | 6.6 | 166.1 | 28.9 | 84.7 | 50-130 | | 0 | | |
| Dibenz(a,h)anthracene | 160.1 | 6.6 | 166.1 | 0 | 96.4 | 50-130 | | 0 | | |
| Fluoranthene | 168.7 | 6.6 | 166.1 | 14.73 | 92.7 | 50-131 | | 0 | | |
| Fluorene | 196.7 | 6.6 | 166.1 | 51.37 | 87.5 | 50-125 | | 0 | | |
| Indeno(1,2,3-cd)pyrene | 165.2 | 6.6 | 166.1 | 0 | 99.4 | 45-139 | | 0 | | |
| Naphthalene | 160.5 | 6.6 | 166.1 | 50.43 | 66.3 | 50-125 | | 0 | | |
| Pyrene | 147.7 | 6.6 | 166.1 | 16.96 | 78.7 | 45-130 | | 0 | | |
| Surr: 2-Fluorobiphenyl | 157.4 | 6.6 | 166.1 | 0 | 94.8 | 43-125 | | 0 | | |
| Surr: 4-Terphenyl-d14 | 151.2 | 6.6 | 166.1 | 0 | 91 | 32-125 | | 0 | | |
| Surr: Nitrobenzene-d5 | 131.1 | 6.6 | 166.1 | 0 | 78.9 | 37-125 | | 0 | | |

| MSD | Sample ID: 1205824-01BMSD | | | | Units: µg/Kg | | Analysis Date: 5/23/2012 06:22 PM | | | |
|------------------------|----------------------------------|-----|---------|-----------------------|---------------------|-----------------------------|--|--------------|-----------|------|
| Client ID: | Run ID: SV-6_120523A | | | SeqNo: 2792746 | | Prep Date: 5/23/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Acenaphthene | 136.9 | 6.6 | 166.1 | 21.66 | 69.4 | 50-120 | 158.7 | 14.8 | 30 | |
| Anthracene | 153.8 | 6.6 | 166.1 | 13.76 | 84.3 | 50-123 | 154.6 | 0.521 | 30 | |
| Benz(a)anthracene | 156.3 | 6.6 | 166.1 | 0 | 94.1 | 50-131 | 155.8 | 0.289 | 30 | |
| Benzo(a)pyrene | 142 | 6.6 | 166.1 | 6.41 | 81.6 | 50-130 | 148.8 | 4.7 | 30 | |
| Benzo(b)fluoranthene | 159.6 | 6.6 | 166.1 | 3.912 | 93.8 | 50-137 | 160.1 | 0.285 | 30 | |
| Benzo(k)fluoranthene | 132.2 | 6.6 | 166.1 | 3.477 | 77.5 | 50-143 | 144.2 | 8.66 | 30 | |
| Chrysene | 166.6 | 6.6 | 166.1 | 28.9 | 82.9 | 50-130 | 169.6 | 1.81 | 30 | |
| Dibenz(a,h)anthracene | 153 | 6.6 | 166.1 | 0 | 92.1 | 50-130 | 160.1 | 4.59 | 30 | |
| Fluoranthene | 157.4 | 6.6 | 166.1 | 14.73 | 85.9 | 50-131 | 168.7 | 6.91 | 30 | |
| Fluorene | 174.6 | 6.6 | 166.1 | 51.37 | 74.2 | 50-125 | 196.7 | 11.9 | 30 | |
| Indeno(1,2,3-cd)pyrene | 163.2 | 6.6 | 166.1 | 0 | 98.3 | 45-139 | 165.2 | 1.22 | 30 | |
| Naphthalene | 136.9 | 6.6 | 166.1 | 50.43 | 52 | 50-125 | 160.5 | 15.9 | 30 | |
| Pyrene | 141.1 | 6.6 | 166.1 | 16.96 | 74.7 | 45-130 | 147.7 | 4.63 | 30 | |
| Surr: 2-Fluorobiphenyl | 133.3 | 6.6 | 166.1 | 0 | 80.3 | 43-125 | 157.4 | 16.6 | 30 | |
| Surr: 4-Terphenyl-d14 | 160 | 6.6 | 166.1 | 0 | 96.3 | 32-125 | 151.2 | 5.64 | 30 | |
| Surr: Nitrobenzene-d5 | 117.6 | 6.6 | 166.1 | 0 | 70.8 | 37-125 | 131.1 | 10.9 | 30 | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01D | 1205797-02D | 1205797-03D |
| 1205797-04D | 1205797-05D | 1205797-10D |

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

QC Page: 7 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **R128117** Instrument ID **VOA3** Method: **SW8260**

| MLBK Sample ID: VBLKS1-05212-R128117 | | | | Units: µg/Kg | | Analysis Date: 5/21/2012 10:09 AM | | | | |
|--|--------|-----|---------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: VOA3_120521A | | | | SeqNo: 2787680 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | ND | 5.0 | | | | | | | | |
| Ethylbenzene | ND | 5.0 | | | | | | | | |
| m,p-Xylene | ND | 10 | | | | | | | | |
| o-Xylene | ND | 5.0 | | | | | | | | |
| Toluene | ND | 5.0 | | | | | | | | |
| Xylenes, Total | ND | 15 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 41.43 | 0 | 50 | 0 | 82.9 | 70-128 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 48.69 | 0 | 50 | 0 | 97.4 | 73-126 | 0 | | | |
| Surr: Dibromofluoromethane | 46.84 | 0 | 50 | 0 | 93.7 | 71-128 | 0 | | | |
| Surr: Toluene-d8 | 47.6 | 0 | 50 | 0 | 95.2 | 73-127 | 0 | | | |

| LCS Sample ID: VLCSS1-052112-R128117 | | | | Units: µg/Kg | | Analysis Date: 5/21/2012 08:16 AM | | | | |
|--|--------|-----|---------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: VOA3_120521A | | | | SeqNo: 2787678 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 55.36 | 5.0 | 50 | 0 | 111 | 79-120 | 0 | | | |
| Ethylbenzene | 55.89 | 5.0 | 50 | 0 | 112 | 80-122 | 0 | | | |
| m,p-Xylene | 116.2 | 10 | 100 | 0 | 116 | 79-122 | 0 | | | |
| o-Xylene | 57.38 | 5.0 | 50 | 0 | 115 | 80-123 | 0 | | | |
| Toluene | 53.75 | 5.0 | 50 | 0 | 108 | 79-120 | 0 | | | |
| Xylenes, Total | 173.5 | 15 | 150 | 0 | 116 | 80-120 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 44.31 | 0 | 50 | 0 | 88.6 | 70-128 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 49.46 | 0 | 50 | 0 | 98.9 | 73-126 | 0 | | | |
| Surr: Dibromofluoromethane | 47.93 | 0 | 50 | 0 | 95.9 | 71-128 | 0 | | | |
| Surr: Toluene-d8 | 49.74 | 0 | 50 | 0 | 99.5 | 73-127 | 0 | | | |

| LCSD Sample ID: VLCSDS1-052112-R128117 | | | | Units: µg/Kg | | Analysis Date: 5/21/2012 08:44 AM | | | | |
|--|--------|-----|---------|-----------------------|------|--|---------------|--------------|-----------|------|
| Client ID: VOA3_120521A | | | | SeqNo: 2787679 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 50.6 | 5.0 | 50 | 0 | 101 | 79-120 | 55.36 | 9 | 30 | |
| Ethylbenzene | 51.58 | 5.0 | 50 | 0 | 103 | 80-122 | 55.89 | 8.04 | 30 | |
| m,p-Xylene | 106.2 | 10 | 100 | 0 | 106 | 79-122 | 116.2 | 8.99 | 30 | |
| o-Xylene | 52.33 | 5.0 | 50 | 0 | 105 | 80-123 | 57.38 | 9.2 | 30 | |
| Toluene | 50.53 | 5.0 | 50 | 0 | 101 | 79-120 | 53.75 | 6.19 | 30 | |
| Xylenes, Total | 158.5 | 15 | 150 | 0 | 106 | 80-120 | 173.5 | 9.06 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 42.66 | 0 | 50 | 0 | 85.3 | 70-128 | 44.31 | 3.8 | 30 | |
| Surr: 4-Bromofluorobenzene | 49.79 | 0 | 50 | 0 | 99.6 | 73-126 | 49.46 | 0.665 | 30 | |
| Surr: Dibromofluoromethane | 47.37 | 0 | 50 | 0 | 94.7 | 71-128 | 47.93 | 1.18 | 30 | |
| Surr: Toluene-d8 | 49.14 | 0 | 50 | 0 | 98.3 | 73-127 | 49.74 | 1.22 | 30 | |

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

QC Page: 8 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

Batch ID: **R128117** Instrument ID **VOA3** Method: **SW8260**

| MS | Sample ID: 1205678-02AMS | | | | Units: µg/Kg | | Analysis Date: 5/21/2012 11:32 AM | | | |
|-----------------------------|---------------------------------|-----|---------|---------------|-----------------------|---------------|--|------|--------------|------|
| Client ID: | Run ID: VOA3_120521A | | | | SeqNo: 2787683 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 38.09 | 5.0 | 50 | 0 | 76.2 | 79-120 | 0 | 0 | | S |
| Ethylbenzene | 37.28 | 5.0 | 50 | 0 | 74.6 | 80-122 | 0 | 0 | | S |
| m,p-Xylene | 77.55 | 10 | 100 | 0 | 77.5 | 79-122 | 0 | 0 | | S |
| o-Xylene | 36.18 | 5.0 | 50 | 0 | 72.4 | 80-123 | 0 | 0 | | S |
| Toluene | 38.47 | 5.0 | 50 | 0 | 76.9 | 79-120 | 0 | 0 | | S |
| Xylenes, Total | 113.7 | 15 | 150 | 0 | 75.8 | 80-120 | 0 | 0 | | S |
| Surr: 1,2-Dichloroethane-d4 | 47.7 | 0 | 50 | 0 | 95.4 | 70-128 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 49.68 | 0 | 50 | 0 | 99.4 | 73-126 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 46.31 | 0 | 50 | 0 | 92.6 | 71-128 | 0 | 0 | | |
| Surr: Toluene-d8 | 50.26 | 0 | 50 | 0 | 101 | 73-127 | 0 | 0 | | |

| MSD | Sample ID: 1205678-02AMSD | | | | Units: µg/Kg | | Analysis Date: 5/21/2012 12:00 PM | | | |
|-----------------------------|----------------------------------|-----|---------|---------------|-----------------------|---------------|--|-------|--------------|------|
| Client ID: | Run ID: VOA3_120521A | | | | SeqNo: 2787684 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Benzene | 41.24 | 5.0 | 50 | 0 | 82.5 | 79-120 | 38.09 | 7.95 | 30 | |
| Ethylbenzene | 38.85 | 5.0 | 50 | 0 | 77.7 | 80-122 | 37.28 | 4.12 | 30 | S |
| m,p-Xylene | 81.71 | 10 | 100 | 0 | 81.7 | 79-122 | 77.55 | 5.23 | 30 | |
| o-Xylene | 38.67 | 5.0 | 50 | 0 | 77.3 | 80-123 | 36.18 | 6.65 | 30 | S |
| Toluene | 40.26 | 5.0 | 50 | 0 | 80.5 | 79-120 | 38.47 | 4.54 | 30 | |
| Xylenes, Total | 120.4 | 15 | 150 | 0 | 80.3 | 80-120 | 113.7 | 5.68 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 47.38 | 0 | 50 | 0 | 94.8 | 70-128 | 47.7 | 0.672 | 30 | |
| Surr: 4-Bromofluorobenzene | 49.5 | 0 | 50 | 0 | 99 | 73-126 | 49.68 | 0.346 | 30 | |
| Surr: Dibromofluoromethane | 45.92 | 0 | 50 | 0 | 91.8 | 71-128 | 46.31 | 0.849 | 30 | |
| Surr: Toluene-d8 | 49.85 | 0 | 50 | 0 | 99.7 | 73-127 | 50.26 | 0.811 | 30 | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01A | 1205797-02A | 1205797-03A |
| 1205797-04A | 1205797-05A | 1205797-10A |

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

QC Page: 9 of 10

Client: Noble Energy
Work Order: 1205797
Project: 7N

QC BATCH REPORT

| Batch ID: 61390 | | Instrument ID UV-2450 | | Method: SW7196 | | (Dissolve) | | | | | |
|----------------------|---------------------------------|-----------------------|---------|----------------|----------------|---------------|-----------------------------------|------|----------------|--|--|
| MBLK | Sample ID: WBLKS-052512-61390 | | | | Units: mg/kg | | Analysis Date: 5/25/2012 03:00 PM | | | | |
| Client ID: | Run ID: UV-2450_120525B | | | | SeqNo: 2796159 | | Prep Date: 5/25/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | | |
| Chromium, Hexavalent | ND | 2.0 | | | | | | | | | |
| LCS | Sample ID: WL.CSS-05 2512-61390 | | | | Units: mg/kg | | Analysis Date: 5/25/2012 03:00 PM | | | | |
| Client ID: | Run ID: UV-2450_120525B | | | | SeqNo: 2796160 | | Prep Date: 5/25/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | | |
| Chromium, Hexavalent | 9.8 | 2.0 | 10 | 0 | 98 | 80-120 | | 0 | | | |
| LCSD | Sample ID: WL.CSDS-052512-61390 | | | | Units: mg/kg | | Analysis Date: 5/25/2012 03:00 PM | | | | |
| Client ID: | Run ID: UV-2450_120525B | | | | SeqNo: 2796173 | | Prep Date: 5/25/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | | |
| Chromium, Hexavalent | 9.72 | 2.0 | 10 | 0 | 97.2 | 80-120 | 9.8 | 0.82 | 20 | | |
| MS | Sample ID: 1205797-10CMS | | | | Units: mg/kg | | Analysis Date: 5/25/2012 03:00 PM | | | | |
| Client ID: B01 | Run ID: UV-2450_120525B | | | | SeqNo: 2796176 | | Prep Date: 5/25/2012 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | | |
| Chromium, Hexavalent | 10.96 | 2.0 | 10 | 0.32 | 106 | 75-125 | | 0 | | | |

The following samples were analyzed in this batch:

| | | |
|-------------|-------------|-------------|
| 1205797-01C | 1205797-02C | 1205797-03C |
| 1205797-04C | 1205797-05C | 1205797-10C |

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

QC Page: 10 of 10

Client: Noble Energy
Project: 7N
WorkOrder: 1205797

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

| <u>Units Reported</u> | <u>Description</u> |
|------------------------------|---------------------------|
| mg/Kg | Milligrams per Kilogram |

ALS Environmental

Sample Receipt Checklist

Client Name: **NOBLE ENERGY**

Date/Time Received: **17-May-12 09:05**

Work Order: **1205797**

Received by: **RDH**

Checklist completed by *Raymond N Gamboa*
eSignature

18-May-12

Reviewed by: *Patricia L. Lynch*
eSignature

21-May-12

Date

Matrices: **Soil, Water**

Carrier name: **FedEx**

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

Temperature(s)/Thermometer(s):

2.7 003

Cooler(s)/Kit(s):

7129

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

pH adjusted?

Yes No N/A

pH adjusted by:

-

Login Notes: Trip blank not on COC--logged in without analysis.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

| |
|----------|
| <u> </u> |
|----------|

CorrectiveAction:

| |
|----------|
| <u> </u> |
|----------|

Chain of Custody Form

| Customer Information | | Project Information | | | | | | | | | | | | | | | |
|---|-------------------------|---------------------------|---|---------------------------------------|-------|------------|---|--------------|---|-----------------------------------|---|---|---|---|---|-------------------|------|
| Purchase Order | | Project Name | 7N | | | | | | | | | | | | | | |
| Work Order | | Project Number | A - BTEx (8260) | | | | | | | | | | | | | | |
| Company Name | Noble Energy | Bill To Company | B - GRO (8015) | | | | | | | | | | | | | | |
| Send Report To | Asher Weinberg | Invoice Attn | C - DRO (8015) | | | | | | | | | | | | | | |
| Address | 300 airport rd, suite 3 | Address | D - PATHS (8270 SIM) 13 listed in COGCC Table | | | | | | | | | | | | | | |
| City/State/Zip | Rifle, Colorado 81650 | City/State/Zip | E - 910-1 | | | | | | | | | | | | | | |
| Phone | (970) 625-1494 | Phone | F - Arsenic (6020) | | | | | | | | | | | | | | |
| Fax | | Fax | G - Metals (6020/7470) As, Ba, Cd, Cr, Hg, Zn | | | | | | | | | | | | | | |
| e-Mail Address | | e-Mail Address | H - Cu, Pb, Ni, Se, Ag, Zn | | | | | | | | | | | | | | |
| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
| 1 | N01 | 5/16/12 | 12:08 | Soil | - | 4 | X | X | X | X | X | | | | X | | |
| 2 | S01 | | 12:08 | Soil | - | 4 | X | X | X | X | X | | | X | | | |
| 3 | E01 | | 12:08 | Soil | - | 4 | X | X | X | X | X | | | X | | | |
| 4 | W01 | | 12:08 | Soil | - | 4 | X | X | X | X | X | | | X | | | |
| 5 | Land Farm 01 | | 13:16 | Soil | - | 4 | X | X | X | X | X | | | X | | | |
| 6 | Background 01 | | 13:32 | Soil | - | 1 | | | | | | | | X | | | |
| 7 | Background 02 | | 13:32 | Soil | - | 1 | | | | | | | | X | | | |
| 8 | Background 03 | | 13:32 | Soil | - | 1 | | | | | | | | X | | | |
| 9 | Background 04 | | 13:32 | Soil | - | 1 | | | | | | | | X | | | |
| 10 | Bo1 | | 12:08 | Soil | - | 4 | X | X | X | X | X | | | X | | | |
| Samplers Please Print & Sign | | Shipment Method | | Required Turnaround Time: (Check Box) | | | | | | | | | | | | Results Due Date: | |
| Asher Weinberg | | Date: 5/16/12 Time: 13:54 | | Received by: | | | | | | | | | | | | | |
| Relinquished by: | | Date: 5/16/12 Time: 13:54 | | Received by (Laboratory): | | Cooler ID: | | Cooler Temp: | | QC Package: (Check One Box Below) | | | | | | | |
| Relinquished by: | | Date: 5/16/12 Time: 13:54 | | Checked by (Laboratory): | | | | | | | | | | | | | |
| Logged by (Laboratory): | | Date: 5/16/12 Time: 13:54 | | | | | | | | | | | | | | | |
| Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SO ₃ 6-NaHSO ₄ 7-Other | | Date: 5/16/12 Time: 13:54 | | | | | | | | | | | | | | | |

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