



### SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b)

RECEIVED  
11/20/2012

|   |  |  |
|---|--|--|
| 1. OGCC Operator Number: 66561  | 4. Contact Name: Daniel I. Padilla                 | Complete the Attachment Checklist<br>OP OGCC |
| 2. Name of Operator: OXY USA Inc.   | Phone: 970.263.3637                                |  |
| 3. Address: 760 Horizon Drive, Suite 101<br>City: Grand Junction State: CO Zip: 81506 | Fax: 970.263.3694                                  |  |
| 5. API Number: 05-077-0913  | OGCC Facility ID Number: 334372 (Facility ID)      | Survey Plat                                  |
| 6. Well/Facility Name: Currey 16-10 pad   | 7. Well/Facility Number: Currey 16-2 (Reserve pit) | Directional Survey                           |
| 8. Location (Qtr/Sec, Twp, Rng, Meridian): NWSE, Sec 16, T9S, R94W, 6th PM            |  | Surface Equip Diagram                        |
| 9. County: Mesa   | 10. Field Name: Brush Creek                        | Technical Info Page                          |
| 11. Federal, Indian or State Lease Number:  |  | Other Map, lab data                          |

### General Notice

|   |   |
|---|---|
| <input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit) |   |
| Change of Surface Footage from Exterior Section Lines:  | <input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL |
| Change of Surface Footage to Exterior Section Lines:  | <input type="checkbox"/>  |
| Change of Bottomhole Footage from Exterior Section Lines:   | <input type="checkbox"/>  |
| Change of Bottomhole Footage to Exterior Section Lines:   | <input type="checkbox"/> attach directional survey                |
| Bottomhole location Qtr/Sec, Twp, Rng, Mer  |   |
| Latitude  | Distance to nearest property line                                 |
| Longitude   | Distance to nearest bldg, public rd, utility or RR                |
| Ground Elevation  | Distance to nearest lease line                                    |
|   | Is location in a High Density Area (rule 603b)? Yes/No            |
|   | Distance to nearest well same formation                           |
|   | Surface owner consultation date:                                  |
| GPS DATA:   |   |
| Date of Measurement   | POOP Reading  |
| Instrument Operator's Name  |   |
| <input type="checkbox"/> CHANGE SPACING UNIT  |   |
| Formation   | Formation Code  |
| Spacing order number  | Unit Acreage  |
| Unit configuration  |   |
| <input type="checkbox"/> Remove from surface bond   |   |
| Signed surface use agreement attached   |   |
| <input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):  |   |
| Effective Date:   |   |
| Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual   |   |
| <input type="checkbox"/> CHANGE WELL NAME   |   |
| From:   | NUMBER  |
| To:   |   |
| Effective Date:   |   |
| <input type="checkbox"/> ABANDONED LOCATION:  |   |
| Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No   |   |
| Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No  |   |
| Date Ready for inspection:  |   |
| <input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS   |   |
| Date well shut in or temporarily abandoned:   |   |
| Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No                                 |   |
| MIT required if shut in longer than two years. Date of last MIT   |   |
| <input type="checkbox"/> SPUD DATE:   |   |
| <input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)   |   |
| <input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK  |   |
| Method used   | Cementing tool setting/perf depth                                 |
| Cement volume   | Cement top  |
| Cement bottom   | Date  |
| *submit cbl and cement job summaries  |   |
| <input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.                        |   |
| Final reclamation will commence on approximately  |   |
| <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.   |   |

### Technical Engineering/Environmental Notice

|   |  |  |
|---|--|--|
| <input type="checkbox"/> Notice of Intent   | <input type="checkbox"/> Report of Work Done                   |  |
| Approximate Start Date:   | Date Work Completed:   |  |
| Details of work must be described in full on Technical Information Page (Page 2 must be submitted.) |  |  |
| <input type="checkbox"/> Intent to Recomplete (submit form 2)                                       | <input type="checkbox"/> Request to Vent or Flare              | <input type="checkbox"/> E&P Waste Disposal                        |
| <input type="checkbox"/> Change Drilling Plans  | <input type="checkbox"/> Repair Well                           | <input type="checkbox"/> Beneficial Reuse of E&P Waste             |
| <input type="checkbox"/> Gross Interval Changed?  | <input type="checkbox"/> Rule 502 variance requested           | <input type="checkbox"/> Status Update/Change of Remediation Plans |
| <input type="checkbox"/> Casing/Cementing Program Change  | <input checked="" type="checkbox"/> Other: Reserve pit closure | for Spills and Releases  |

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

Signed: Daniel I. Padilla Date: 11/19/12 Email: daniel\_padilla@oxy.com  
Print Name: Daniel I. Padilla Title: Regulatory Advisor

OGCC Approved: [Signature] Title: Env. Eng. Date: 12/19/12

CONDITIONS OF APPROVAL IF ANY:

See Doc# 668400839 and  
668400838 for field inspection  
completed on 12/11/12.  
JSC

# TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 66561 API Number: \_\_\_\_\_  
 2. Name of Operator: OXY USA Inc. OGCC Facility ID # 334372  
 3. Well/Facility Name: Currey 16-10 Pad Well/Facility Number: 16-2  
 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE, Sec 16, T9S, R94W, 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

## 5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

OXY USA Inc. (Oxy) originally submitted a request for variance to rule 902.e for the above-mentioned reserve pit on September 2, 2011, reference COGCC document #2215753. The COGCC evaluated the variance request and requested a resubmittal following the 1000 series rule. Oxy resubmitted the request for variance to COGCC Rule 1003.b for the above-mentioned reserve pit on October 13, 2011, reference COGCC document #2216559. The COGCC reviewed the sundry notice and conducted an on-site inspection on October 19, 2011. Based on the field assessment and variance request sundry notice, the COGCC denied the variance request and required Oxy provide a pit closure plan by October 24, 2011, reference COGCC document #2216650. Oxy submitted the Currey 16-10 pit closure plan on October 31, 2011 which was approved by the COGCC on November 1, 2011, reference document #2216787. Following closure of the above-mentioned reserve pit, Oxy submitted a Form 4 sundry notice on January 17, 2012 requesting application of a different standard for naturally occurring arsenic found within the area, reference document #2229844. On October 17, 2012 following review of this sundry document #2229844, the COGCC requested resubmittal of the reserve pit closure outlining history of the reserve pit closure and documentation of compliance with the approved closure workplan (document #2216787). Oxy has completed reclamation of the above-mentioned reserve pit, and is providing this sundry requesting closure following the Reserve Pit Closure Plan submitted to the COGCC on October 31, 2011, reference document #2216787.

Oxy removed the reserve pit fence and staged these materials at the Brush Creek compressor station storage area. Oxy removed the fluids found within the reserve pit and reintroduced them into Oxy's water handling and injection system for reuse and or disposal. Once the fluid was removed, Oxy removed the pit contents and sand located in the reserve pit and staged them on the well pad for stabilization, blending, and final disposal within the reserve pit. Oxy removed the reserve pit liner and staged it on the well pad for sampling and off-site disposal. The reserve pit liner was approved for disposal and hauled to EDCD, a commercial disposal facility located in South Jordan, Utah.

Following the liner removal, Oxy collected pit bottom grab samples to sufficiently characterize the pit. These samples were collected on December 15, 2011 and are represented as sample names: Currey 16-10 PBCN, Currey 16-10 PBNW, Currey 16-10 PBCS, and Currey 16-10 PBS on the attached tabulated data spreadsheet. These samples identified exceedances in pH and arsenic within the pit bottom material. Once the pit bottom confirmation samples were received, Oxy returned the pit contents and sand for stabilization and mixing. The material within the reserve pit was mixed with native material and then sampled to ensure compliance with COGCC Table 910-1 concentration levels. These samples were collected on December 27, 2011 and are represented as sample names: Currey 16-10 PS1, Currey 16-10 PS2, Currey 16-10 PSCOMP, and Currey 16-10 PBC. These samples identified exceedances in pH and arsenic within the pit content material.

To address elevated concentrations of arsenic found within the pit bottom and mixed contents samples, Oxy collected background samples within native undisturbed soils within the area. Based on these background samples within the area, Oxy identified background concentrations of arsenic exceeding arsenic concentrations found within the reserve pit bottom and mixed content samples. Therefore, Oxy requests consideration as an alternative to the default value for As in Table 910-1, based on the demonstration of naturally occurring concentrations of As in undisturbed soils taken from native material collected from nearby locations, as per foot note 1 of COGCC Table 910-1. To address elevated concentrations of pH, Oxy buried and capped the pit below at least three feet of native material to ensure a sufficient agronomic zone for revegetation effort once final pad reclamation is completed. Oxy collected a cap sample from the reserve pit footprint to ensure a sufficient cap compared to COGCC Table 910-1 concentration levels. The cap sample was collected on January 4, 2012 and is represented as the sample name: Currey 16-10 cap on the attached tabulated data spreadsheet. The cap sample complies with all concentration levels identified in COGCC Table 910-1. Please reference the attached table, analytical data, and sample location map.

The reserve pit was brought to grade with the active working surface of the pad, to minimize stormwater run-on and run-off during the operational phase of the pad. The area where native source material used for mixing and stabilization was recontoured and seeded to properly manage stormwater run-on and run-off. Seeding and final reclamation of the reserve pit area will occur as part of the final pad reclamation at the end of the life of the pad.

As identified in document #2229844 for closure of this reserve pit, Oxy is requesting the COGCC conduct a field inspection of the reclaimed reserve pit to ensure adequate closure following the approved closure plan.

## **Currey 16-10 Reserve Pit (Location ID: 334372) Reclamation and Closure Sampling Narrative**

Outlined below is the Currey 16-10 reserve pit sampling narrative following the Reserve Pit Closure Plan approved by the COGCC, reference document #2216787. This is being provided in support of Oxy's Currey 16-10 Sundry Notice reserve pit closure documentation. The narrative details what closure, and background samples were taken, where they were taken and for what purpose.

### ***Pit Bottom Samples 12/15/2011 and 12/27/2011 (L552045 and L553417)***

- Oxy removed the fluids within the pit and reintroduced them into Oxy's water handling and injection system for reuse and or disposal. Oxy then removed the reserve pit contents and sand and staged on the well pad for stabilization, blending, and final disposal within the reserve pit. Next the reserve pit liner was removed and pit bottom grab samples were collected before reclamation of the reserve pit to ensure no environmental impacts were encountered. The four pit bottom grab samples were taken from the low point and random locations from the pit bottom, which were approximately 10' feet below the pad surface. The pit bottom samples are represented in the tabulated data spreadsheet in the first through fourth columns and labeled as "Pit bottom" for Sample Identification. The pit bottom samples were collected on 12/15/2011 and the Sample ID's from the lab report are Currey 16-10 PBCN, Currey 16-10 PBNW, Currey 16-10 PBCS, Currey 16-10 PBS. These samples are shown on the Currey 16-10 Reserve Pit Sampling Map as pink dots and are referenced in the legend as Pit Bottom Sample. The lab data report for this sample is attached and the values can be found on lab report L552045 on pages 2 through 9 as sample ID's Currey 16-10 PBCN, Currey 16-10 PBNW, Currey 16-10 PBCS, Currey 16-10 PBS.
- Oxy collected an additional pit bottom sample following completion of mixing and stabilization of the pit spoils. This additional pit bottom sample was collected on 12/27/2011 and is represented in the tabulated data spreadsheet in the eighth column, which is labeled as "Pit Bottom" for sample identification. This additional pit bottom sample is shown on the Currey 16-10 Reserve Pit Sampling map as a pink dot and is referenced in the legend as a Pit Bottom Sample. Lab report L553417, as attached identifies this sample value on pages 2 and 3 as sample ID Currey 16-10 PBC.
- Pit bottom sample values showed elevated concentrations of pH and arsenic (As).

### ***Pit spoils 12/27/2011 (L553413)***

- Once the pit bottom samples were collected, Oxy mixed and stabilized the pit contents with an excavator. Following mixing and stabilization of the spoil pile, Oxy collected random grab samples to characterize the spoils pile for COGCC Table 910-1. The pit spoils were collected on 12/27/2011 and are represented in tabulated data spreadsheet in the columns five through seven and labeled as "Pit Spoils" for Sample Identification. These sample locations are shown on the Currey 16-10 Sampling Map as pink dots and are labeled as Currey 16-10 PS1, Currey 16-10 PS2, and Currey 16-10 PSCOMP. Lab report L553413, as attached, depicts these sample values on pages 6 and 7 for sample ID McDaniel 14-3 – Post – Rec 0-6FT.
- Stabilized Pit spoils samples analytical values showed elevated concentrations for pH and As.

***Background Sample 11/03/2011 and 5/06/2010 (L545160 and L458025)***

- In an effort to identify elevated concentrations of naturally occurring As similar to that which was previously identified in the Pit Bottom and Pit Spoils samples, Oxy collected background samples from native undisturbed locations around the area. Oxy collected four background grab samples on 11/03/2011 from undisturbed native material at a depth of 0-12 inches around the Currey 16-10 pad. The 11/03/2011 background samples can be found in columns 11 through 14 of the tabulated data spreadsheet with the Sample Identification of "Background". These samples are shown on the Currey 16-10 Background Sampling Locations Map as green dots and are referenced in the legend as Background Sample Location. Lab report L545160, as attached, depicts these sample values on pages 2 through 9 for Sample ID's Currey 16-10 Background-N, Currey 16-10 Background-NE, Currey 16-10 Background-NW, Currey 16-10 Background-E.
- Oxy collected an additional background grab sample from a native undisturbed background location within the area on 5/06/2010. The 5/06/2010 background grab sample can be found in column 10 of the tabulated data spreadsheet with the Sample name of "Woods Spangler 15-13 BG-W". This sample is shown on the Currey 16-10 Background Sampling Locations Map as a green dot, is labeled as "Woods Spangler 15-13 BG-W", and referenced in the legend as Background Sample Location. The background sample value can be found on lab report L458025 on page 2 as Sample ID Wood Spangler 15-13 BG-W 0-6IN.
- The sampling effort yielded background As concentrations above those found in the Post Reclaim sample.

***Cap Sample 1/04/2012 (L554491)***

- Once the pit was backfilled with the pit spoils, Oxy capped the pit area with at least three feet of native material to ensure a sufficient agronomic zone is provided. Oxy collected a five-point composite sample of the cap material on 1/04/2012 which is represented in the tabulated data spreadsheet in column nine and labeled as "Pit cap" for Sample Identification. The composite sampling locations are shown on the Currey 16-10 Sampling Map as yellow dots and are referenced in the legend as Cap Sample. Lab report L554491, as attached, depicts these sample values on pages 2 and 3 for Sample ID Currey 16-10 Cap 10IN.
- Cap sample results identified no concentrations above COGCC Table 910-1 concentration levels.

In conclusion, this pit has been closed and the COGCC 900 series and 1000 series rules, and the approved Currey 16-10 Reserve Pit Closure Plan for pit closure. All analyte concentrations were found to be below COGCC table 910-1 allowable concentrations, were found to be below naturally occurring background concentrations, or were mitigated using a cap to ensure a sufficient agronomic zone. Oxy will continue to monitor this site for stormwater compliance until final pad reclamation has occurred.





OXY USA Inc.  
760 Horizon Drive, Suite 101  
Grand Junction, CO 81506

# Currey 16-10 Reserve Pit Sampling Map

Mesa County, Colorado

0 0.008 0.016 0.024 0.032 Miles

BG-NW

BG-N 12

BG-N 14

BG-E

PB-NW  
CAP1  
PS-Comp3  
PB-CN  
CAP2  
PB-CS  
PS-1  
PS-Comp5  
PB-S  
CAP5  
PB-NW  
PS-Comp2  
PS-Comp1  
CAP3  
PB-C  
PS-2  
CAP4  
PS-Comp4

Pit or Pond Area

Pit Bottom Sample

Cap Sample

Back Ground Sample

Background Sample ID BG2

Cap Sample ID


CAP1

Post Reclaim Sample ID PR2



**Currey 16-10 Background  
Sampling Locations Map**

Updated Nov 14, 2012 Mesa County, Colorado

 Background Sample Location

BG-N12  
BG-N14  
BG-NW

Currey 16-10 pad

BG-E

Woods Spangler 15-13 BG-W

Woods Spangler 15-13 pad



| Currey 16-10 Pit Bottom  |              |
|--------------------------|--------------|
| Pad #:                   | Currey 16-10 |
| Sample Date:             | 12/15/2011   |
| Clearance Achieved Date: |              |

| Lab Report #             | Sample Identifications (mg/kg) |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
|--------------------------|--------------------------------|-------------------|-------------------|------------------|------------------|------------------|---------------------|------------------|------------------|---------------------------|-------------------|--------------------|--------------------------|---------------------------|
|                          | Date Sampled                   | 12/15/2011        | 12/15/2011        | 12/15/2011       | 12/15/2011       | 12/27/2011       | 12/27/2011          | 12/27/2011       | 12/27/2011       | 1/4/2011                  | 5/6/2010          | 11/3/2011          | 11/3/2011                | 11/3/2011                 |
| Sample Name              | Currey 16-10 PBCN              | Currey 16-10 PBNW | Currey 16-10 PBCS | Currey 16-10 PBS | Currey 16-10 PS1 | Currey 16-10 PS2 | Currey 16-10 PSCOMP | Currey 16-10 PBC | Currey 16-10 Cap | Woods Spangler 15-13 BG-W | Currey 16-10 BG-E | Currey 16-10 BG-NW | Currey 16-10 BG-N- 14 in | Currey 16-10 BG-N - 12 in |
| Sample Identification    | Pit bottom                     | Pit bottom        | Pit bottom        | Pit bottom       | Pit spoils       | Pit spoils       | Pit spoils          | Pit bottom       | Pit cap          | Background                | Background        | Background         | Background               | Background                |
| MCL (mg/Kg)              |                                |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
| Organics in Soi          |                                |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
| TPH (GRO and DRO)        | 500                            | 1.6               | 3.1               | 6.20             | 2.4              | BDL              | 9.3                 | 6.3              | BDL              | 8.2                       |                   | BDL                | BDL                      | 0.93                      |
| Benzene                  | 0.17                           | U                 | U                 | 0.0038           | U                | BDL              | 0.0029              | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Toluene                  | 85                             | U                 | U                 | 0.012            | U                | BDL              | 0.04                | 0.0063           | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Ethylbenzene             | 100                            | U                 | U                 | U                | U                | BDL              | 0.027               | 0.0033           | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Xylenes                  | 175                            | U                 | U                 | 0.03             | U                | 0.0025           | 0.64                | 0.075            | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Organics in Soil (PAH's) |                                |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
| Acenaphthene             | 1000                           | U                 | U                 | 0.00078          | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Anthracene               | 1000                           | U                 | U                 | U                | U                | BDL              | 0.00095             | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Benzo(A)anthracene       | 0.22                           | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Benzo(B)fluoranthene     | 0.22                           | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | 0.0013                   | BDL                       |
| Benzo(K)fluoranthene     | 2.2                            | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Benzo(A)pyrene           | 0.022                          | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Chrysene                 | 22                             | U                 | U                 | U                | U                | BDL              | 0.0013              | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Dibenzo(A,H)anthracene   | 0.022                          | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Fluoranthene             | 1000                           | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Flourene                 | 1000                           | U                 | 0.00069           | 0.0028           | U                | 0.00099          | 0.0051              | 0.0037           | BDL              | 0.0017                    |                   | 0.0016             | BDL                      | BDL                       |
| Indeno(1,2,3,C,D)pyrene  | 0.22                           | U                 | U                 | U                | U                | BDL              | BDL                 | BDL              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Napthalene               | 23                             | 0.001             | 0.0016            | 0.013            | U                | 0.0058           | 0.045               | 0.019            | 0.001            | 0.0044                    |                   | BDL                | BDL                      | BDL                       |
| Pyrene                   | 1000                           | 0.00093           | 0.0012            | 0.00061          | U                | BDL              | 0.0013              | 0.00072          | BDL              | 0.0012                    |                   | BDL                | BDL                      | BDL                       |
| Inorganics in Soi        |                                |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
| EC                       | <4 mmhos/cm or 2X background   | 0.380             | 0.370             | 0.350            | 0.170            | 0.18             | 0.430               | 0.360            | 0.280            | 0.28                      |                   | 0.036              | 0.025                    | 0.095                     |
| SAR                      | <12                            | 4.9               | 5.10              | 8.9              | 4.5              | 2.7              | 8.2                 | 6.4              | 8.8              | 2.3                       |                   | 1.4                | 0.73                     | 1.2                       |
| pH                       | 6-9                            | 11.0              | 9.1               | 8.9              | 8.5              | 6.9              | 9.4                 | 9.1              | 8.7              | 8                         |                   | 6.9                | 7.2                      | 6.8                       |
| Metals in Soils          |                                |                   |                   |                  |                  |                  |                     |                  |                  |                           |                   |                    |                          |                           |
| Arsenic                  | 0.39                           | 3.0               | 2.8               | 3.2              | U                | 2.6              | 2                   | 2                | 5.2              | 0.88                      | 5.4               | 4.8                | 4.1                      | 4.4                       |
| Barium (LDNR True Total) | 15,000                         | 390               | 830               | 310              | 54               | 200              | 4700                | 2700             | 33               | 740                       |                   | 170                | 160                      | 160                       |
| Cadmium                  | 70                             | U                 | U                 | U                | U                | 0.11             | BDL                 | BDL              | BDL              | BDL                       |                   | 0.82               | 0.87                     | 0.77                      |
| Chromium III             | 120,000                        | 1.9               | 4.1               | 6.0              | 4.4              | 17               | 13                  | 15               | 3.9              | 14                        |                   | 19                 | 17                       | 19                        |
| Chromium VI              | 23                             | 1.6               | 1.5               | U                | U                | BDL              | BDL                 | BDL              | BDL              | 0.72                      |                   | 0.76               | 1.2                      | 1.9                       |
| Copper                   | 3100                           | 3.8               | 6.6               | 5.9              | 5.0              | 18               | 14                  | 16               | 3.3              | 17                        |                   | 13                 | 14                       | 13                        |
| Lead                     | 400                            | 7.5               | 6.8               | 12.0             | 6.2              | 13               | 10                  | 11               | 7.5              | 11                        |                   | 18                 | 17                       | 18                        |
| Mercury                  | 23                             | 0.0240            | 0.019             | 0.0200           | 0.0068           | 0.014            | 0.018               | 0.017            | 0.018            | 0.026                     |                   | 0.0081             | 0.012                    | 0.0081                    |
| Nickel                   | 1600                           | 3.3               | 5.9               | 5.0              | 5.0              | 14               | 8.8                 | 12               | 1.6              | 14                        |                   | 12                 | 12                       | 14                        |
| Selenium                 | 390                            | 0.97              | 0.79              | 1.20             | 0.73             | BDL              | BDL                 | BDL              | BDL              | 1                         |                   | BDL                | BDL                      | BDL                       |
| Silver                   | 390                            | U                 | U                 | U                | U                | BDL              | 0.18                | 0.2              | BDL              | BDL                       |                   | BDL                | BDL                      | BDL                       |
| Zinc                     | 23,000                         | 13.0              | 21.0              | 19.0             | 21.0             | 53               | 39                  | 48               | 12               | 50                        |                   | 47                 | 44                       | 49                        |

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Tuesday December 27, 2011

Report Number: L552045

Samples Received: 12/16/11

Client Project:

Description: Currey 16-10 Pit Bottom

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Mark W. Beasley, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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1-800-767-5859  
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Tax I.D. 62-0814289  
Est. 1970

# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

December 27, 2011

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBCN 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 12:00

ESC Sample # : L552045-01

Site ID :

Project # :

| Parameter  | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|--|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent                                       | 1.6    | 0.71   | 2.0    | mg/kg    | J         | 3060A/7 | 12/21/11 | 1    |
| Chromium, Trivalent  | 1.9    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 12/17/11 | 1    |
| ORP  | 40.    |        |        | mV       | T8        | 2580    | 12/20/11 | 1    |
| pH   | 11.    |        |        | su       | T8        | 9045D   | 12/23/11 | 1    |
| Sodium Adsorption Ratio                                    | 4.9    |        |        |          |           | Calc.   | 12/20/11 | 1    |
| Specific Conductance                                       | 380    |        |        | umhos/cm |           | 9050AMo | 12/20/11 | 1    |
| Mercury  | 0.024  | 0.0015 | 0.020  | mg/kg    |           | 7471    | 12/19/11 | 1    |
| Arsenic  | 3.0    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Barium   | 390    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 12/21/11 | 1    |
| Cadmium  | U      | 0.040  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Chromium   | 3.5    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Copper   | 3.8    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Lead   | 7.5    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Nickel   | 3.3    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Selenium   | 0.97   | 0.32   | 1.0    | mg/kg    | J         | 6010B   | 12/17/11 | 1    |
| Silver   | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Zinc   | 13.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| TPH (GC/FID) Low Fraction                                  | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 12/17/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene(FID) | 94.1   |        |        | % Rec.   |           | 602/801 | 12/17/11 | 5    |
| Benzene  | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Toluene  | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Ethylbenzene   | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Total Xylenes  | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Surrogate Recovery   |        |        |        |          |           |         |          |      |
| Toluene-d8   | 97.9   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| Dibromofluoromethane                                       | 119.   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| a,a,a-Trifluorotoluene                                     | 99.8   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| 4-Bromofluorobenzene                                       | 89.5   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| TPH (GC/FID) High Fraction                                 | 1.6    | 0.77   | 4.0    | mg/kg    | J         | 3546/DR | 12/19/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                       | 73.0   |        |        | % Rec.   |           | 3546/DR | 12/19/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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L552045-01 (PH) - 10.94@19.1c



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# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L552045-01

Site ID :

Project # :

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBCN 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 12:00

| Parameter                         | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |         |         |        |        |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthene                      | U       | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthylene                    | U       | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(g,h,i)perylene              | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluorene                          | U       | 0.00055 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Naphthalene                       | 0.0010  | 0.00065 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Phenanthrene                      | 0.00093 | 0.00074 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Pyrene                            | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 1-Methylnaphthalene               | 0.00096 | 0.00079 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 2-Methylnaphthalene               | 0.0024  | 0.00059 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 2-Chloronaphthalene               | U       | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Surrogate Recovery                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 87.5    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| 2-Fluorobiphenyl                  | 82.0    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| p-Terphenyl-d14                   | 84.7    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |

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Est. 1970

# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L552045-02

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBNW 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 12:10

Site ID :  
Project # :

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 1.5    | 0.71   | 2.0    | mg/kg    | JP1       | 3060A/7 | 12/21/11 | 1    |
| Chromium, Trivalent   | 4.1    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 12/17/11 | 1    |
| ORP   | 45.    |        |        | mV       | T8        | 2580    | 12/20/11 | 1    |
| pH  | 9.1    |        |        | su       | T8        | 9045D   | 12/23/11 | 1    |
| Sodium Adsorption Ratio                                     | 5.1    |        |        |          |           | Calc.   | 12/20/11 | 1    |
| Specific Conductance  | 370    |        |        | umhos/cm |           | 9050AMo | 12/20/11 | 1    |
| Mercury   | 0.019  | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 12/19/11 | 1    |
| Arsenic   | 2.8    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Barium  | 830    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 12/21/11 | 1    |
| Cadmium   | U      | 0.040  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Chromium  | 5.6    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Copper  | 6.6    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Lead  | 6.8    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Nickel  | 5.9    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Selenium  | 0.79   | 0.32   | 1.0    | mg/kg    | J         | 6010B   | 12/17/11 | 1    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Zinc  | 21.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 12/17/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 94.5   |        |        | % Rec.   |           | 602/801 | 12/17/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 98.0   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| Dibromofluoromethane  | 119.   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 99.7   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| 4-Bromofluorobenzene  | 92.4   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 3.1    | 0.77   | 4.0    | mg/kg    | J         | 3546/DR | 12/19/11 | 1    |
| Surrogate recovery (%)<br>o-Terphenyl                       | 72.6   |        |        | % Rec.   |           | 3546/DR | 12/19/11 | 1    |

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L552045-02 (PH) - 9.09@18.7c





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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L552045-02

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBNW 0-12IN

Site ID :

Project # :

Collected By : Matt Kasten  
Collection Date : 12/15/11 12:10

| Parameter                         | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |         |         |        |        |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthene                      | U       | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthylene                    | 0.00062 | 0.00057 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(g,h,i)perylene              | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluorene                          | 0.00069 | 0.00055 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Naphthalene                       | 0.0016  | 0.00065 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Phenanthrene                      | 0.0012  | 0.00074 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Pyrene                            | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 1-Methylnaphthalene               | 0.0018  | 0.00079 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 2-Methylnaphthalene               | 0.0041  | 0.00059 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 2-Chloronaphthalene               | U       | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Surrogate Recovery                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 73.2    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| 2-Fluorobiphenyl                  | 73.5    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| p-Terphenyl-d14                   | 73.0    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |

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# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L552045-03

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBCS 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 14:50

Site ID :  
Project # :

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | U      | 0.71   | 2.0    | mg/kg    |           | 3060A/7 | 12/22/11 | 1    |
| Chromium, Trivalent   | 6.0    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 12/17/11 | 1    |
| ORP   | 26.    |        |        | mV       | T8        | 2580    | 12/22/11 | 1    |
| pH  | 8.9    |        |        | su       | T8        | 9045D   | 12/23/11 | 1    |
| Sodium Adsorption Ratio                                     | 8.9    |        |        |          |           | Calc.   | 12/20/11 | 1    |
| Specific Conductance  | 350    |        |        | umhos/cm |           | 9050AMo | 12/20/11 | 1    |
| Mercury   | 0.020  | 0.0015 | 0.020  | mg/kg    |           | 7471    | 12/19/11 | 1    |
| Arsenic   | 3.2    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Barium  | 310    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 12/21/11 | 1    |
| Cadmium   | U      | 0.040  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Chromium  | 6.0    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Copper  | 5.9    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Lead  | 12.    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Nickel  | 5.0    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Selenium  | 1.2    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Zinc  | 19.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 12/17/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 93.9   |        |        | % Rec.   |           | 602/801 | 12/17/11 | 5    |
| Benzene   | 0.0038 | 0.0017 | 0.0050 | mg/kg    | J         | 8260B   | 12/17/11 | 5    |
| Toluene   | 0.012  | 0.0016 | 0.025  | mg/kg    | J         | 8260B   | 12/17/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Total Xylenes   | 0.030  | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 12/17/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 98.7   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| Dibromofluoromethane  | 118.   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 98.0   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| 4-Bromofluorobenzene  | 100.   |        |        | % Rec.   |           | 8260B   | 12/17/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 6.2    | 0.77   | 4.0    | mg/kg    |           | 3546/DR | 12/19/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 78.5   |        |        | % Rec.   |           | 3546/DR | 12/19/11 | 1    |

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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBCS 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 14:50

ESC Sample # : L552045-03

Site ID :

Project # :

| Parameter                         | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |         |         |        |        |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthene                      | 0.00078 | 0.00071 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Acenaphthylene                    | U       | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(g,h,i)perylene              | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluorene                          | 0.0028  | 0.00055 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Naphthalene                       | 0.013   | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Phenanthrene                      | 0.0050  | 0.00074 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| Pyrene                            | 0.00061 | 0.00059 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 1-Methylnaphthalene               | 0.013   | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 2-Methylnaphthalene               | 0.034   | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 2-Chloronaphthalene               | U       | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Surrogate Recovery                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 84.3    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| 2-Fluorobiphenyl                  | 73.5    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| p-Terphenyl-d14                   | 77.3    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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Note:

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Reported: 12/27/11 17:48 Printed: 12/27/11 17:48

L552045-03 (PH) - 8.92@18.8c





12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

December 27, 2011

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L552045-04

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom

Site ID :

Sample ID : CURREY 16-10 PBS 0-12IN

Project # :

Collected By : Matt Kasten  
Collection Date : 12/15/11 15:00

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | U      | 0.71   | 2.0    | mg/kg    |           | 3060A/7 | 12/22/11 | 1    |
| Chromium, Trivalent   | 4.4    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 12/17/11 | 1    |
| ORP   | 58.    |        |        | mV       | T8        | 2580    | 12/22/11 | 1    |
| pH  | 8.5    |        |        | su       | T8        | 9045D   | 12/23/11 | 1    |
| Sodium Adsorption Ratio                                       | 4.2    |        |        |          |           | Calc.   | 12/20/11 | 1    |
| Specific Conductance  | 170    |        |        | umhos/cm |           | 9050AMo | 12/20/11 | 1    |
| Mercury   | 0.0068 | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 12/19/11 | 1    |
| Arsenic   | U      | 0.32   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Barium  | 54.    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 12/21/11 | 1    |
| Cadmium   | U      | 0.040  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Chromium  | 4.4    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Copper  | 5.0    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Lead  | 6.2    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Nickel  | 5.0    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Selenium  | 0.73   | 0.32   | 1.0    | mg/kg    | J         | 6010B   | 12/17/11 | 1    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| Zinc  | 21.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 12/17/11 | 1    |
| TPH (GC/FID) Low Fraction                                     | U      | 0.25   | 0.50   | mg/kg    | J3        | 8015D/G | 12/16/11 | 5    |
| Surrogate Recovery (70-130)<br>a, a, a-Trifluorotoluene (FID) | 94.1   |        |        | % Rec.   |           | 602/801 | 12/16/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 12/21/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 12/21/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 12/21/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 12/21/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 102.   |        |        | % Rec.   |           | 8260B   | 12/21/11 | 5    |
| Dibromofluoromethane  | 109.   |        |        | % Rec.   |           | 8260B   | 12/21/11 | 5    |
| a, a, a-Trifluorotoluene                                      | 103.   |        |        | % Rec.   |           | 8260B   | 12/21/11 | 5    |
| 4-Bromofluorobenzene  | 98.7   |        |        | % Rec.   |           | 8260B   | 12/21/11 | 5    |
| TPH (GC/FID) High Fraction                                    | 2.4    | 0.77   | 4.0    | mg/kg    | J         | 3546/DR | 12/19/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                          | 75.9   |        |        | % Rec.   |           | 3546/DR | 12/19/11 | 1    |

U = ND (Not Detected)

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Reported: 12/27/11 17:48 Printed: 12/27/11 17:48

L552045-04 (PH) - 8.52@18.2c



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Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Blair Rollins  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

December 27, 2011

Date Received : December 16, 2011  
Description : Currey 16-10 Pit Bottom  
Sample ID : CURREY 16-10 PBS 0-12IN  
Collected By : Matt Kasten  
Collection Date : 12/15/11 15:00

ESC Sample # : L552045-04

Site ID :

Project # :

| Parameter                         | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |         |         |        |        |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthene                      | U       | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Acenaphthylene                    | U       | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(g,h,i)perylene              | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Fluorene                          | U       | 0.00055 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Naphthalene                       | U       | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Phenanthrene                      | U       | 0.00074 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Pyrene                            | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 1-Methylnaphthalene               | U       | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| 2-Methylnaphthalene               | 0.00075 | 0.00059 | 0.0060 | mg/kg  | J         | 8270C-S | 12/20/11 | 1    |
| 2-Chloronaphthalene               | U       | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 12/20/11 | 1    |
| Surrogate Recovery                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 69.4    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| 2-Fluorobiphenyl                  | 72.1    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |
| p-Terphenyl-d14                   | 72.5    |         |        | % Rec. |           | 8270C-S | 12/20/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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Reported: 12/27/11 17:48 Printed: 12/27/11 17:48  
L552045-04 (PH) - 8.52@18.2c

Attachment A  
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte                    | Run ID   | Qualifier |
|---------------|------------|-------------|----------------------------|----------|-----------|
| L552045-01    | WG570438   | SAMP        | Selenium                   | R1970212 | J         |
|               | WG570366   | SAMP        | TPH (GC/FID) High Fraction | R1971392 | J         |
|               | WG570854   | SAMP        | Chromium, Hexavalent       | R1975332 | J         |
|               | WG571397   | SAMP        | pH                         | R1978592 | T8        |
|               | WG570429   | SAMP        | Naphthalene                | R1972872 | J         |
|               | WG570429   | SAMP        | Phenanthrene               | R1972872 | J         |
|               | WG570429   | SAMP        | 1-Methylnaphthalene        | R1972872 | J         |
|               | WG570429   | SAMP        | 2-Methylnaphthalene        | R1972872 | J         |
|               | WG570820   | SAMP        | ORP                        | R1974401 | T8        |
|               | WG570438   | SAMP        | Selenium                   | R1970212 | J         |
| L552045-02    | WG570366   | SAMP        | TPH (GC/FID) High Fraction | R1971392 | J         |
|               | WG570854   | SAMP        | Chromium, Hexavalent       | R1975332 | JP1       |
|               | WG570486   | SAMP        | Mercury                    | R1971694 | J         |
|               | WG571397   | SAMP        | pH                         | R1978592 | T8        |
|               | WG570429   | SAMP        | Acenaphthylene             | R1972872 | J         |
|               | WG570429   | SAMP        | Fluorene                   | R1972872 | J         |
|               | WG570429   | SAMP        | Naphthalene                | R1972872 | J         |
|               | WG570429   | SAMP        | Phenanthrene               | R1972872 | J         |
|               | WG570429   | SAMP        | 1-Methylnaphthalene        | R1972872 | J         |
|               | WG570429   | SAMP        | 2-Methylnaphthalene        | R1972872 | J         |
| L552045-03    | WG570820   | SAMP        | ORP                        | R1974401 | T8        |
|               | WG570306   | SAMP        | Benzene                    | R1971992 | J         |
|               | WG570306   | SAMP        | Toluene                    | R1971992 | J         |
|               | WG571397   | SAMP        | pH                         | R1978592 | T8        |
|               | WG570429   | SAMP        | Acenaphthene               | R1972872 | J         |
|               | WG570429   | SAMP        | Fluorene                   | R1972872 | J         |
|               | WG570429   | SAMP        | Phenanthrene               | R1972872 | J         |
|               | WG570429   | SAMP        | Pyrene                     | R1972872 | J         |
|               | WG571190   | SAMP        | ORP                        | R1977032 | T8        |
|               | WG570438   | SAMP        | Selenium                   | R1970212 | J         |
| L552045-04    | WG570366   | SAMP        | TPH (GC/FID) High Fraction | R1971392 | J         |
|               | WG570486   | SAMP        | Mercury                    | R1971694 | J         |
|               | WG570472   | SAMP        | TPH (GC/FID) Low Fraction  | R1971092 | J3        |
|               | WG571397   | SAMP        | pH                         | R1978592 | T8        |
|               | WG570429   | SAMP        | 2-Methylnaphthalene        | R1972872 | J         |
|               | WG571190   | SAMP        | ORP                        | R1977032 | T8        |



Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning   |
|-----------|---|
| J         | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.       |
| J3        | The associated batch QC was outside the established quality control range for precision.                    |
| P1        | RPD value not applicable for sample concentrations less than 5 times the reporting limit.                   |
| T8        | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
12/27/11 at 17:48:59

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L552045-01 Account: OXYGJCO Received: 12/16/11 09:00 Due Date: 12/23/11 00:00 RPT Date: 12/27/11 17:48  
Sample: L552045-02 Account: OXYGJCO Received: 12/16/11 09:00 Due Date: 12/23/11 00:00 RPT Date: 12/27/11 17:48  
Sample: L552045-03 Account: OXYGJCO Received: 12/16/11 09:00 Due Date: 12/23/11 00:00 RPT Date: 12/27/11 17:48  
Sample: L552045-04 Account: OXYGJCO Received: 12/16/11 09:00 Due Date: 12/23/11 00:00 RPT Date: 12/27/11 17:48

# OXY USA Inc. - Grand Junction, CO

## 760 Horizon Dr., Ste 101 Grand Junction, CO 81506

Project Description: Curry 16-10 Pit Bottom  
 Phone: (970) 263-3601  
 FAX:

Collected by: [Signature]  
 Site/Facility ID#:

Collected by (signature): [Signature]  
 Rush? (Lab MUST Be Notified)  
 Same Day ..... 200%  
 Next Day ..... 100%  
 Two Day ..... 50%

Packed on Ice N [Signature]

Sample ID  
Curry 16-10 PBCN  
Curry 16-10 PBNW  
Curry 16-10 PBCS  
Curry 16-10 PBS

Comp/Grab  
Grab  
Grab  
Grab  
Grab

Matrix\*  
SS  
SS  
SS  
SS

Depth  
0-12"  
0-12"  
0-12"  
0-12"

Date  
12/15/11  
12/15/11  
12/15/11  
12/15/11

Time  
1200  
1210  
250  
300

No. of Cntrs  
3  
3  
3  
3

Alternate billing information:

CO Table 910

Report to:  
Blair Rollins oxy.co  
 Email to:  
David.fadilla@oxy.com

City/State Collected  
ES  
 ESC Key:

P.O.#:

Analysis/Container/Preservative

V8260BTEX, GRO  
 DRO, SV8270PAHSIM  
 SAR, SPCON, PH  
 MRCRA8 + Cu, Ni, Zn  
 CR3, CR6SS

D154

Prepared by:

**ENVIRONMENTAL  
SCIENCE CORP.**

12065 Lebanon Road  
 Mt Juliet, TN 37122

Phone (615) 758-5858  
 Phone (800) 767-5859  
 FAX (615) 758-5859

CoCode OXYGJCO (lab use only)  
 Template/Prelogin

Shipped Via:

Remarks/Contaminant  
1552045-01  
-02  
-03  
-04

Sample # (lab use only)

\*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH Temp

Remarks:

Flow Other

|  |  |  |   |   |
|--|--|--|---|---|
| Relinquished by: (Signature)<br><u>[Signature]</u> | Date: <u>12/15/11</u><br>Time: <u>1800</u> | Received by: (Signature)<br><u>[Signature]</u>         | Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier | Condition: (lab use only)<br><u>010</u> |
| Relinquished by: (Signature)<br><u>[Signature]</u> | Date: <u>12/15/11</u><br>Time: <u>1800</u> | Received by: (Signature)<br><u>[Signature]</u>         | Temp: <u>3.4</u><br>Bottles Received: <u>12800.300</u>  | pH Checked: <u>01W</u>                  |
| Relinquished by: (Signature)<br><u>[Signature]</u> | Date: <u>12/15/11</u><br>Time: <u>1800</u> | Received for lab by: (Signature)<br><u>[Signature]</u> | Date: <u>12-16-11</u><br>Time: <u>01W</u>   | NCF:                                    |





12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Friday December 30, 2011

Report Number: L553413

Samples Received: 12/28/11

Client Project:

Description: Curreyl6-10 Spoils

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Tax I.D. 62-0814289  
Est. 1970

# REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L553413-01

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils

Site ID :

Sample ID : CURREY16-10PS1

Project # :

Collected By : Matt Kasten  
Collection Date : 12/27/11 13:15

| Parameter                         | Result  | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|----------|-----------|---------|----------|------|
| pH                                | 6.9     |         |        | su       |           | 9045D   | 12/29/11 | 1    |
| Specific Conductance              | 180     |         |        | umhos/cm |           | 9050AMo | 12/29/11 | 1    |
| TPH (GC/FID) Low Fraction         | U       | 0.25    | 0.50   | mg/kg    |           | 8015D/G | 12/28/11 | 5    |
| Surrogate Recovery (70-130)       |         |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 102.    |         |        | % Rec.   |           | 602/801 | 12/28/11 | 5    |
| Benzene                           | U       | 0.0017  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Toluene                           | U       | 0.0016  | 0.025  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Ethylbenzene                      | U       | 0.0019  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Total Xylenes                     | 0.0025  | 0.0023  | 0.015  | mg/kg    | J         | 8260B   | 12/28/11 | 5    |
| Surrogate Recovery                |         |         |        |          |           |         |          |      |
| Toluene-d8                        | 105.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| Dibromofluoromethane              | 104.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| a,a,a-Trifluorotoluene            | 99.8    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| 4-Bromofluorobenzene              | 90.9    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| TPH (GC/FID) High Fraction        | U       | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 12/29/11 | 1    |
| Surrogate recovery(%)             |         |         |        |          |           |         |          |      |
| o-Terphenyl                       | 52.8    |         |        | % Rec.   |           | 3546/DR | 12/29/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |         |         |        |          |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthene                      | U       | 0.00071 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthylene                    | U       | 0.00057 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(g,h,i)perylene              | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluorene                          | 0.00099 | 0.00055 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Naphthalene                       | 0.0058  | 0.00065 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Phenanthrene                      | 0.0016  | 0.00074 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Pyrene                            | U       | 0.00059 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 1-Methylnaphthalene               | 0.0036  | 0.00079 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| 2-Methylnaphthalene               | 0.0090  | 0.00059 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 2-Chloronaphthalene               | U       | 0.00060 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Surrogate Recovery                |         |         |        |          |           |         |          |      |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L553413-01 (PH) - 6.93@16.8c



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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

December 30, 2011

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils  
Sample ID : CURREY16-10PS1  
Collected By : Matt Kasten  
Collection Date : 12/27/11 13:15

ESC Sample # : L553413-01

Site ID :

Project # :

| Parameter        | Result | MDL | RDL | Units  | Qualifier | Method  | Date     | Dil. |
|------------------|--------|-----|-----|--------|-----------|---------|----------|------|
| Nitrobenzene-d5  | 69.1   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| 2-Fluorobiphenyl | 67.7   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| p-Terphenyl-d14  | 83.1   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |

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# REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L553413-02

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils

Site ID :

Sample ID : CURREY16-10PS2

Project # :

Collected By : Matt Kasten  
Collection Date : 12/27/11 13:30

| Parameter   | Result  | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|---------|---------|--------|----------|-----------|---------|----------|------|
| pH  | 9.4     |         |        | su       |           | 9045D   | 12/29/11 | 1    |
| Specific Conductance  | 430     |         |        | umhos/cm |           | 9050AMo | 12/29/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | 4.6     | 0.25    | 0.50   | mg/kg    |           | 8015D/G | 12/28/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 96.9    |         |        | % Rec.   |           | 602/801 | 12/28/11 | 5    |
| Benzene   | 0.0029  | 0.0017  | 0.0050 | mg/kg    | J         | 8260B   | 12/28/11 | 5    |
| Toluene   | 0.040   | 0.0016  | 0.025  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Ethylbenzene  | 0.027   | 0.0019  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Total Xylenes   | 0.64    | 0.0023  | 0.015  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |
| Toluene-d8  | 107.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| Dibromofluoromethane  | 103.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 101.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| 4-Bromofluorobenzene  | 94.9    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 4.7     | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 12/29/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 68.2    |         |        | % Rec.   |           | 3546/DR | 12/29/11 | 1    |
| Polynuclear Aromatic Hydrocarbons                           |         |         |        |          |           |         |          |      |
| Anthracene  | 0.00095 | 0.00076 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Acenaphthene  | U       | 0.00071 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthylene  | U       | 0.00057 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)anthracene  | U       | 0.00092 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)pyrene  | U       | 0.00062 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(b)fluoranthene  | U       | 0.00082 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(g,h,i)perylene  | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(k)fluoranthene  | U       | 0.0013  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Chrysene  | 0.0013  | 0.0011  | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Dibenz(a,h)anthracene                                       | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluoranthene  | U       | 0.0010  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluorene  | 0.0051  | 0.00055 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Indeno(1,2,3-cd)pyrene                                      | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Naphthalene   | 0.045   | 0.00065 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Phenanthrene  | 0.0069  | 0.00074 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Pyrene  | 0.0013  | 0.00059 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| 1-Methylnaphthalene   | 0.029   | 0.00079 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 2-Methylnaphthalene   | 0.076   | 0.00059 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 2-Chloronaphthalene   | U       | 0.00060 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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L553413-02 (PH) - 9.37@17.6c





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Tax I.D. 62-0814289  
Est. 1970

REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils  
Sample ID : CURREY16-10PS2  
Collected By : Matt Kasten  
Collection Date : 12/27/11 13:30

ESC Sample # : L553413-02

Site ID :

Project # :

| Parameter        | Result | MDL | RDL | Units  | Qualifier | Method  | Date     | Dil. |
|------------------|--------|-----|-----|--------|-----------|---------|----------|------|
| Nitrobenzene-d5  | 86.9   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| 2-Fluorobiphenyl | 86.5   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| p-Terphenyl-d14  | 77.8   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |

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REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils  
Sample ID : CURREY16-10PSCOMP  
Collected By : Matt Kasten  
Collection Date : 12/27/11 13:45

ESC Sample # : L553413-03

Site ID :

Project # :

| Parameter   | Result  | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|---------|---------|--------|----------|-----------|---------|----------|------|
| pH  | 9.1     |         |        | su       |           | 9045D   | 12/29/11 | 1    |
| Specific Conductance  | 360     |         |        | umhos/cm |           | 9050AMo | 12/29/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | 1.1     | 0.25    | 0.50   | mg/kg    |           | 8015D/G | 12/28/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 100.    |         |        | % Rec.   |           | 602/801 | 12/28/11 | 5    |
| Benzene   | U       | 0.0017  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Toluene   | 0.0063  | 0.0016  | 0.025  | mg/kg    | J         | 8260B   | 12/28/11 | 5    |
| Ethylbenzene  | 0.0033  | 0.0019  | 0.0050 | mg/kg    | J         | 8260B   | 12/28/11 | 5    |
| Total Xylenes   | 0.075   | 0.0023  | 0.015  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |
| Toluene-d8  | 104.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| Dibromofluoromethane  | 103.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 99.3    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| 4-Bromofluorobenzene  | 94.8    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 5.2     | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 12/29/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 65.3    |         |        | % Rec.   |           | 3546/DR | 12/29/11 | 1    |
| Polynuclear Aromatic Hydrocarbons                           |         |         |        |          |           |         |          |      |
| Anthracene  | U       | 0.00076 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthene  | U       | 0.00071 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthylene  | U       | 0.00057 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)anthracene  | U       | 0.00092 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)pyrene  | U       | 0.00062 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(b)fluoranthene  | U       | 0.00082 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(g,h,i)perylene  | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(k)fluoranthene  | U       | 0.0013  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Chrysene  | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Dibenz(a,h)anthracene                                       | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluoranthene  | U       | 0.0010  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluorene  | 0.0037  | 0.00055 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Indeno(1,2,3-cd)pyrene                                      | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Naphthalene   | 0.019   | 0.00065 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Phenanthrene  | 0.0059  | 0.00074 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| Pyrene  | 0.00072 | 0.00059 | 0.0060 | mg/kg    | J         | 8270C-S | 12/29/11 | 1    |
| 1-Methylnaphthalene   | 0.017   | 0.00079 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 2-Methylnaphthalene   | 0.045   | 0.00059 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 2-Chloronaphthalene   | U       | 0.00060 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |

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Tax I.D. 62-0814289  
  
Est. 1970

REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L553413-03

Site ID :

Project # :

Date Received : December 28, 2011  
Description : Curreyl6-10 Spoils  
Sample ID : CURREY16-10PSCOMP  
Collected By : Matt Kasten  
Collection Date : 12/27/11 13:45

| Parameter        | Result | MDL | RDL | Units  | Qualifier | Method  | Date     | Dil. |
|------------------|--------|-----|-----|--------|-----------|---------|----------|------|
| Nitrobenzene-d5  | 72.1   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| 2-Fluorobiphenyl | 73.3   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| p-Terphenyl-d14  | 84.7   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |

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Attachment A  
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte             | Run ID   | Qualifier |
|---------------|------------|-------------|---------------------|----------|-----------|
| L553413-01    | WG571966   | SAMP        | Total Xylenes       | R1982554 | J         |
|               | WG571796   | SAMP        | Fluorene            | R1983895 | J         |
|               | WG571796   | SAMP        | Naphthalene         | R1983895 | J         |
|               | WG571796   | SAMP        | Phenanthrene        | R1983895 | J         |
|               | WG571796   | SAMP        | 1-Methylnaphthalene | R1983895 | J         |
| L553413-02    | WG571966   | SAMP        | Benzene             | R1982554 | J         |
|               | WG571796   | SAMP        | Anthracene          | R1983895 | J         |
|               | WG571796   | SAMP        | Chrysene            | R1983895 | J         |
|               | WG571796   | SAMP        | Fluorene            | R1983895 | J         |
|               | WG571796   | SAMP        | Pyrene              | R1983895 | J         |
| L553413-03    | WG571966   | SAMP        | Toluene             | R1982554 | J         |
|               | WG571966   | SAMP        | Ethylbenzene        | R1982554 | J         |
|               | WG571796   | SAMP        | Fluorene            | R1983895 | J         |
|               | WG571796   | SAMP        | Phenanthrene        | R1983895 | J         |
|               | WG571796   | SAMP        | Pyrene              | R1983895 | J         |

Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning   |
|-----------|---|
| J         | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Summary of Remarks For Samples Printed  
12/30/11 at 11:12:19

TSR Signing Reports: 134  
R3 - Rush: Two Day

Sample: L553413-01 Account: OXYGJCO Received: 12/28/11 09:00 Due Date: 12/30/11 00:00 RPT Date:

Sample: L553413-02 Account: OXYGJCO Received: 12/28/11 09:00 Due Date: 12/30/11 00:00 RPT Date:

Sample: L553413-03 Account: OXYGJCO Received: 12/28/11 09:00 Due Date: 12/30/11 00:00 RPT Date:

Chain of Custody  
Page 1 of 1

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**Phone (800) 767-5859**  
**FAX (615) 758-5859**

|                              |          |       |                                  |  |                   |  |
|------------------------------|----------|-------|----------------------------------|--|-------------------|--|
| Relinquished by: (Signature) | Date:    | Time: | Received by: (Signature)         | Samples returned via: <input type="checkbox"/> UPS<br><input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier | Condition:        | (lab use only)   |
| <i>[Signature]</i>           | 12/27/11 | 1560  | <i>[Signature]</i>               |  | JP                |  |
| Relinquished by: (Signature) | Date:    | Time: | Received by: (Signature)         | Temp: <i>36</i><br>Bottles Received: <i>9802</i>   |                   |  |
| <i>[Signature]</i>           |          |       |                                  |  |                   |  |
| Relinquished by: (Signature) | Date:    | Time: | Received for lab by: (Signature) | Date: 12-28-11   | Time: <i>0900</i> | pH Checked: <input type="checkbox"/> NCF: <input type="checkbox"/> |
| <i>[Signature]</i>           |          |       | <i>[Signature]</i>               |  |                   |  |

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Friday December 30, 2011

Report Number: L553417

Samples Received: 12/28/11

Client Project:

Description: Curreyl6-10 Pit Bottom

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L553417-01

Date Received : December 28, 2011  
Description : Currey16-10 Pit Bottom

Site ID :

Sample ID : CURREY16-10PBC

Project # :

Collected By : Matt Kasten  
Collection Date : 12/27/11 13:00

| Parameter   | Result  | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|---------|---------|--------|----------|-----------|---------|----------|------|
| pH  | 8.7     |         |        | su       |           | 9045D   | 12/29/11 | 1    |
| Specific Conductance  | 280     |         |        | umhos/cm |           | 9050AMo | 12/29/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U       | 0.25    | 0.50   | mg/kg    |           | 8015D/G | 12/28/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 102.    |         |        | % Rec.   |           | 602/801 | 12/28/11 | 5    |
| Benzene   | U       | 0.0017  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Toluene   | U       | 0.0016  | 0.025  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Ethylbenzene  | U       | 0.0019  | 0.0050 | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Total Xylenes   | U       | 0.0023  | 0.015  | mg/kg    |           | 8260B   | 12/28/11 | 5    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |
| Toluene-d8  | 104.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| Dibromofluoromethane  | 102.    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 97.9    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| 4-Bromofluorobenzene  | 96.0    |         |        | % Rec.   |           | 8260B   | 12/28/11 | 5    |
| TPH (GC/FID) High Fraction                                  | U       | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 12/29/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 66.0    |         |        | % Rec.   |           | 3546/DR | 12/29/11 | 1    |
| Polynuclear Aromatic Hydrocarbons                           |         |         |        |          |           |         |          |      |
| Anthracene  | U       | 0.00076 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthene  | U       | 0.00071 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Acenaphthylene  | U       | 0.00057 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)anthracene  | U       | 0.00092 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(a)pyrene  | U       | 0.00062 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(b)fluoranthene  | U       | 0.00082 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(g,h,i)perylene  | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Benzo(k)fluoranthene  | U       | 0.0013  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Chrysene  | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Dibenz(a,h)anthracene                                       | U       | 0.0011  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluoranthene  | U       | 0.0010  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Fluorene  | U       | 0.00055 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Indeno(1,2,3-cd)pyrene                                      | U       | 0.0012  | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Naphthalene   | 0.0010  | 0.00065 | 0.0060 | mg/kg    | JJ3       | 8270C-S | 12/29/11 | 1    |
| Phenanthrene  | U       | 0.00074 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| Pyrene  | U       | 0.00059 | 0.0060 | mg/kg    |           | 8270C-S | 12/29/11 | 1    |
| 1-Methylnaphthalene   | 0.00080 | 0.00079 | 0.0060 | mg/kg    | JJ3       | 8270C-S | 12/29/11 | 1    |
| 2-Methylnaphthalene   | 0.0017  | 0.00059 | 0.0060 | mg/kg    | JJ3       | 8270C-S | 12/29/11 | 1    |
| 2-Chloronaphthalene   | U       | 0.00060 | 0.0060 | mg/kg    | J3        | 8270C-S | 12/29/11 | 1    |
| Surrogate Recovery  |         |         |        |          |           |         |          |      |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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L553417-01 (PH) - 8.67@17.8c



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Est. 1970

# REPORT OF ANALYSIS

December 30, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 28, 2011  
Description : Curreyl6-10 Pit Bottom  
Sample ID : CURREY16-10PBC  
Collected By : Matt Kasten  
Collection Date : 12/27/11 13:00

ESC Sample # : L553417-01

Site ID :

Project # :

| Parameter        | Result | MDL | RDL | Units  | Qualifier | Method  | Date     | Dil. |
|------------------|--------|-----|-----|--------|-----------|---------|----------|------|
| Nitrobenzene-d5  | 79.2   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| 2-Fluorobiphenyl | 78.1   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |
| p-Terphenyl-d14  | 89.3   |     |     | % Rec. |           | 8270C-S | 12/29/11 | 1    |

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Attachment A  
List of Analytes with QC Qualifiers

| Sample<br>Number | Work<br>Group | Sample<br>Type | Analyte             | Run<br>ID | Qualifier |
|------------------|---------------|----------------|---------------------|-----------|-----------|
| L553417-01       | WG571796      | SAMP           | Naphthalene         | R1983895  | JJ3       |
|                  | WG571796      | SAMP           | 1-Methylnaphthalene | R1983895  | JJ3       |
|                  | WG571796      | SAMP           | 2-Methylnaphthalene | R1983895  | JJ3       |
|                  | WG571796      | SAMP           | 2-Chloronaphthalene | R1983895  | J3        |

Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning   |
|-----------|---|
| J         | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration. |
| J3        | The associated batch QC was outside the established quality control range for precision.              |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
12/30/11 at 11:12:14

TSR Signing Reports: 134  
R3 - Rush: Two Day

Sample: L553417-01 Account: OXYGJCO Received: 12/28/11 09:00 Due Date: 12/30/11 00:00 RPT Date:

OXY USA Inc. - Grand Junction, CO  
760 Horizon Dr., Ste 101  
Grand Junction, CO 81506

Alternate billing information:  
CO Table 910

Report to:  
Bian Bellus  
Email to: [clara@oxy.com](mailto:clara@oxy.com)

Project Description: Currey 16 Pt B Hom

City/State Collected

Phone: (970) 263-3601

Client Project #:

ESC Key:

FAX:

Collected by: Matt Larson

Site/Facility ID#:

P.O.#:

Collected by (signature): [Signature]

☒ Rush? (Lab MUST Be Notified)

Date Results Needed:

Same Day.....200%

Next Day.....100%

Two Day.....50%

Packed on Ice N

Email? Yes

FAX? No

Sample ID

Comp/Grab

Matrix\*

Depth

Date

Time

No. of Cnts

Currey 16-1073C

Grab

SS

12/27/11

1300

3

V8260BTEX, GRO

DRO, SV8270PAHSIM

SAR, SPCON, pH

MRCRA8 + Cu, Ni, Zn

CR3, CR6SS

Remarks/Contaminant

Sample # (lab only)

Shipped Via:

CoCode OXYGJCO (lab use only)  
Template/Prelogin

B029

Prepared by:

Chain of Custody  
Page 1 of 1



12065 Lebanon Road

Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

\*Matrix: SS - Soil/Solid GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks:

X SAR 0-3 cm

5040 0623 3601

Relinquished by (Signature): [Signature]

Date: 12/27/11

Received by (Signature): [Signature]

Relinquished by (Signature): [Signature]

Date: 12/27/11

Received by (Signature): [Signature]

Relinquished by (Signature): [Signature]

Date: 12-28-11

Received for lab by (Signature): [Signature]

Temp: 34

Condition: JP (lab use only)

Temp: 3

pH Checked:

NCF:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Boilies Received: 3 ea

Temp: 34

Date: 12-28-11

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Friday November 11, 2011

Report Number: L545160


Samples Received: 11/04/11

Client Project: 900546.0005.010

Description: Currey 16-10 Background

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

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# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-01

Date Received : November 04, 2011  
Description : Currey 16-10 Background

Site ID :

Sample ID : CURREY 16-10 BACKGROUND-E 12IN

Project # : 900546.0005.010

Collected By : CJB/LG  
Collection Date : 11/03/11 12:30

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 0.76   | 0.71   | 2.0    | mg/kg    | J         | 3060A/7 | 11/10/11 | 1    |
| Chromium, Trivalent   | 19.    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 11/07/11 | 1    |
| ORP   | 70.    |        |        | mV       |           | 2580    | 11/08/11 | 1    |
| pH  | 6.9    |        |        | su       |           | 9045D   | 11/09/11 | 1    |
| Sodium Adsorption Ratio                                     | 1.4    |        |        |          |           | Calc.   | 11/09/11 | 1    |
| Specific Conductance  | 36.    |        |        | umhos/cm |           | 9050AMo | 11/09/11 | 1    |
| Mercury   | 0.0081 | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 11/06/11 | 1    |
| Arsenic   | 4.8    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Barium  | 170    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Cadmium   | 0.82   | 0.040  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Chromium  | 19.    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Copper  | 13.    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Lead  | 18.    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Nickel  | 12.    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Selenium  | U      | 1.6    | 5.0    | mg/kg    | O         | 6010B   | 11/08/11 | 5    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Zinc  | 47.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 11/05/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 100.   |        |        | % Rec.   |           | 602/801 | 11/05/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 102.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| Dibromofluoromethane  | 101.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 103.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| 4-Bromofluorobenzene  | 99.0   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| TPH (GC/FID) High Fraction                                  | U      | 0.77   | 4.0    | mg/kg    |           | 3546/DR | 11/08/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 73.1   |        |        | % Rec.   |           | 3546/DR | 11/08/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/11/11 08:05 Printed: 11/11/11 08:56

L545160-01 (PH) - 6.92@19.7c





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# REPORT OF ANALYSIS

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

November 11, 2011

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-E 12IN  
Collected By : CJB/LG  
Collection Date : 11/03/11 12:30

ESC Sample # : L545160-01

Site ID :

Project # : 900546.0005.010

| Parameter                         | Result | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |        |         |        |        |           |         |          |      |
| Anthracene                        | U      | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Acenaphthene                      | U      | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Acenaphthylene                    | U      | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(a)anthracene                | U      | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(a)pyrene                    | U      | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(b)fluoranthene              | U      | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(g,h,i)perylene              | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(k)fluoranthene              | U      | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Chrysene                          | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Dibenz(a,h)anthracene             | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Fluoranthene                      | U      | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Fluorene                          | 0.0016 | 0.00055 | 0.0060 | mg/kg  | J         | 8270C-S | 11/07/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Naphthalene                       | U      | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Phenanthrene                      | U      | 0.00074 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Pyrene                            | U      | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 1-Methylnaphthalene               | U      | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 2-Methylnaphthalene               | U      | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 2-Chloronaphthalene               | U      | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Surrogate Recovery                |        |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 86.1   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |
| 2-Fluorobiphenyl                  | 75.6   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |
| p-Terphenyl-d14                   | 84.2   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |

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L545160-01 (PH) - 6.92@19.7c



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Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-02

Date Received : November 04, 2011  
Description : Currey 16-10 Background

Site ID :

Sample ID : CURREY 16-10 BACKGROUND-NW 14IN

Project # : 900546.0005.010

Collected By : CJB/LG  
Collection Date : 11/03/11 12:45

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 1.2    | 0.71   | 2.0    | mg/kg    | J         | 3060A/7 | 11/10/11 | 1    |
| Chromium, Trivalent   | 17.    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 11/07/11 | 1    |
| ORP   | 94.    |        |        | mV       |           | 2580    | 11/08/11 | 1    |
| pH  | 7.2    |        |        | su       |           | 9045D   | 11/09/11 | 1    |
| Sodium Adsorption Ratio                                     | 0.73   |        |        |          |           | Calc.   | 11/09/11 | 1    |
| Specific Conductance  | 25.    |        |        | umhos/cm |           | 9050AMo | 11/09/11 | 1    |
| Mercury   | 0.012  | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 11/06/11 | 1    |
| Arsenic   | 4.1    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Barium  | 160    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Cadmium   | 0.87   | 0.040  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Chromium  | 19.    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Copper  | 14.    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Lead  | 17.    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Nickel  | 12.    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Selenium  | U      | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Zinc  | 44.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 11/05/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 101.   |        |        | % Rec.   |           | 602/801 | 11/05/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 103.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| Dibromofluoromethane  | 102.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 103.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| 4-Bromofluorobenzene  | 99.1   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| TPH (GC/FID) High Fraction                                  | U      | 0.77   | 4.0    | mg/kg    |           | 3546/DR | 11/08/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 63.9   |        |        | % Rec.   |           | 3546/DR | 11/08/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

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L545160-02 (PH) - 7.15@19.5c



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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-02

Site ID :

Project # : 900546.0005.010

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-NW 14IN  
Collected By : CJB/LG  
Collection Date : 11/03/11 12:45

| Parameter                         | Result | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |        |         |        |        |           |         |          |      |
| Anthracene                        | U      | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Acenaphthene                      | U      | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Acenaphthylene                    | U      | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(a)anthracene                | U      | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(a)pyrene                    | U      | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(b)fluoranthene              | 0.0013 | 0.00082 | 0.0060 | mg/kg  | J         | 8270C-S | 11/07/11 | 1    |
| Benzo(g,h,i)perylene              | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Benzo(k)fluoranthene              | U      | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Chrysene                          | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Dibenz(a,h)anthracene             | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Fluoranthene                      | U      | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Fluorene                          | U      | 0.00055 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Naphthalene                       | U      | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Phenanthrene                      | U      | 0.00074 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Pyrene                            | U      | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 1-Methylnaphthalene               | U      | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 2-Methylnaphthalene               | U      | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| 2-Chloronaphthalene               | U      | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 11/07/11 | 1    |
| Surrogate Recovery                |        |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 82.3   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |
| 2-Fluorobiphenyl                  | 79.6   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |
| p-Terphenyl-d14                   | 129.   |         |        | % Rec. |           | 8270C-S | 11/07/11 | 1    |

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Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OKY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-03

Site ID :

Project # : 900546.0005.010

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-N 14IN  
Collected By : CJB/LG  
Collection Date : 11/03/11 12:10

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 1.9    | 0.71   | 2.0    | mg/kg    | J         | 3060A/7 | 11/10/11 | 1    |
| Chromium, Trivalent   | 19.    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 11/07/11 | 1    |
| ORP   | 100    |        |        | mV       |           | 2580    | 11/08/11 | 1    |
| pH  | 6.8    |        |        | su       |           | 9045D   | 11/09/11 | 1    |
| Sodium Adsorption Ratio                                     | 1.2    |        |        |          |           | Calc.   | 11/09/11 | 1    |
| Specific Conductance  | 95.    |        |        | umhos/cm |           | 9050AMo | 11/09/11 | 1    |
| Mercury   | 0.0081 | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 11/06/11 | 1    |
| Arsenic   | 4.4    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Barium  | 160    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Cadmium   | 0.77   | 0.040  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Chromium  | 21.    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Copper  | 13.    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Lead  | 18.    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Nickel  | 14.    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Selenium  | U      | 1.6    | 5.0    | mg/kg    | O         | 6010B   | 11/08/11 | 5    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Zinc  | 49.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 11/05/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 101.   |        |        | % Rec.   |           | 602/801 | 11/05/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 101.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| Dibromofluoromethane  | 101.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 104.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| 4-Bromofluorobenzene  | 103.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 0.93   | 0.77   | 4.0    | mg/kg    | J         | 3546/DR | 11/08/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 59.4   |        |        | % Rec.   |           | 3546/DR | 11/08/11 | 1    |

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L545160-03 (PH) - 6.79@19.4c



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Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-03

Site ID :

Project # : 900546.0005.010

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-N 14IN  
Collected By : CJB/LG  
Collection Date : 11/03/11 12:10

| Parameter                                | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|--|---------|---------|--------|--------|-----------|---------|----------|------|
| <b>Polynuclear Aromatic Hydrocarbons</b> |         |         |        |        |           |         |          |      |
| Anthracene                               | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Acenaphthene                             | U       | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Acenaphthylene                           | U       | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(a)anthracene                       | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(a)pyrene                           | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(b)fluoranthene                     | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(g,h,i)perylene                     | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(k)fluoranthene                     | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Chrysene                                 | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Dibenz(a,h)anthracene                    | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Fluoranthene                             | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Fluorene                                 | U       | 0.00055 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Indeno(1,2,3-cd)pyrene                   | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Naphthalene                              | U       | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Phenanthrene                             | U       | 0.00074 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Pyrene                                   | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 1-Methylnaphthalene                      | U       | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 2-Methylnaphthalene                      | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 2-Chloronaphthalene                      | 0.00062 | 0.00060 | 0.0060 | mg/kg  | J         | 8270C-S | 11/10/11 | 1    |
| <b>Surrogate Recovery</b>                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                          | 87.1    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |
| 2-Fluorobiphenyl                         | 76.7    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |
| p-Terphenyl-d14                          | 77.3    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |

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Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-04

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-N 12IN

Site ID :

Project # : 900546.0005.010

Collected By : CJB/LG  
Collection Date : 11/03/11 11:52

| Parameter   | Result | MDL    | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|--------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 1.6    | 0.71   | 2.0    | mg/kg    | J         | 3060A/7 | 11/10/11 | 1    |
| Chromium, Trivalent   | 16.    | 0.17   | 2.0    | mg/kg    |           | Calc.   | 11/07/11 | 1    |
| ORP   | 120    |        |        | mV       |           | 2580    | 11/08/11 | 1    |
| pH  | 6.8    |        |        | su       |           | 9045D   | 11/09/11 | 1    |
| Sodium Adsorption Ratio                                     | 0.82   |        |        |          |           | Calc.   | 11/09/11 | 1    |
| Specific Conductance  | 32.    |        |        | umhos/cm |           | 9050AMo | 11/09/11 | 1    |
| Mercury   | 0.0071 | 0.0015 | 0.020  | mg/kg    | J         | 7471    | 11/06/11 | 1    |
| Arsenic   | 3.9    | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Barium  | 140    | 0.050  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Cadmium   | 0.87   | 0.040  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Chromium  | 18.    | 0.085  | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Copper  | 12.    | 0.21   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Lead  | 17.    | 0.090  | 0.25   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Nickel  | 12.    | 0.26   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Selenium  | U      | 0.32   | 1.0    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Silver  | U      | 0.16   | 0.50   | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| Zinc  | 45.    | 0.34   | 1.5    | mg/kg    |           | 6010B   | 11/07/11 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25   | 0.50   | mg/kg    |           | 8015D/G | 11/05/11 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 101.   |        |        | % Rec.   |           | 602/801 | 11/05/11 | 5    |
| Benzene   | U      | 0.0017 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Toluene   | U      | 0.0016 | 0.025  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Ethylbenzene  | U      | 0.0019 | 0.0050 | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Total Xylenes   | U      | 0.0023 | 0.015  | mg/kg    |           | 8260B   | 11/05/11 | 5    |
| Surrogate Recovery  |        |        |        |          |           |         |          |      |
| Toluene-d8  | 104.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| Dibromofluoromethane  | 102.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| a,a,a-Trifluorotoluene                                      | 103.   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| 4-Bromofluorobenzene  | 97.6   |        |        | % Rec.   |           | 8260B   | 11/05/11 | 5    |
| TPH (GC/FID) High Fraction                                  | 2.7    | 0.77   | 4.0    | mg/kg    | J         | 3546/DR | 11/08/11 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 56.6   |        |        | % Rec.   |           | 3546/DR | 11/08/11 | 1    |

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Est. 1970

# REPORT OF ANALYSIS

November 11, 2011

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L545160-04

Date Received : November 04, 2011  
Description : Currey 16-10 Background  
Sample ID : CURREY 16-10 BACKGROUND-N 12IN

Site ID :  
Project # : 900546.0005.010

Collected By : CJB/LG  
Collection Date : 11/03/11 11:52

| Parameter                         | Result  | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|---------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |         |         |        |        |           |         |          |      |
| Anthracene                        | U       | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Acenaphthene                      | U       | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Acenaphthylene                    | U       | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(a)anthracene                | U       | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(a)pyrene                    | U       | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(b)fluoranthene              | U       | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Benzo(g,h,i)perylene              | 0.0019  | 0.0012  | 0.0060 | mg/kg  | J         | 8270C-S | 11/10/11 | 1    |
| Benzo(k)fluoranthene              | U       | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Chrysene                          | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Dibenz(a,h)anthracene             | U       | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Fluoranthene                      | U       | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Fluorene                          | U       | 0.00055 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Indeno(1,2,3-cd)pyrene            | U       | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Naphthalene                       | U       | 0.00065 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Phenanthrene                      | U       | 0.00074 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| Pyrene                            | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 1-Methylnaphthalene               | U       | 0.00079 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 2-Methylnaphthalene               | U       | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 11/10/11 | 1    |
| 2-Chloronaphthalene               | 0.00099 | 0.00060 | 0.0060 | mg/kg  | J         | 8270C-S | 11/10/11 | 1    |
| Surrogate Recovery                |         |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 89.3    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |
| 2-Fluorobiphenyl                  | 78.3    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |
| p-Terphenyl-d14                   | 100.    |         |        | % Rec. |           | 8270C-S | 11/10/11 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/11/11 08:05 Printed: 11/11/11 08:56

L545160-04 (PH) - 6.75@19.0c



Attachment A  
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte                    | Run ID   | Qualifier |
|---------------|------------|-------------|----------------------------|----------|-----------|
| L545160-01    | WG564183   | SAMP        | Selenium                   | R1924359 | O         |
|               | WG564107   | SAMP        | Chromium, Hexavalent       | R1927496 | J         |
|               | WG564146   | SAMP        | Mercury                    | R1922125 | J         |
|               | WG564083   | SAMP        | Fluorene                   | R1923095 | J         |
| L545160-02    | WG564107   | SAMP        | Chromium, Hexavalent       | R1927496 | J         |
|               | WG564146   | SAMP        | Mercury                    | R1922125 | J         |
|               | WG564083   | SAMP        | Benzo(b)fluoranthene       | R1923095 | J         |
|               | WG564183   | SAMP        | Selenium                   | R1924359 | O         |
| L545160-03    | WG564237   | SAMP        | TPH (GC/FID) High Fraction | R1924152 | J         |
|               | WG564107   | SAMP        | Chromium, Hexavalent       | R1927496 | J         |
|               | WG564146   | SAMP        | Mercury                    | R1922125 | J         |
|               | WG564250   | SAMP        | 2-Chloronaphthalene        | R1927572 | J         |
| L545160-04    | WG564237   | SAMP        | TPH (GC/FID) High Fraction | R1924152 | J         |
|               | WG564107   | SAMP        | Chromium, Hexavalent       | R1927496 | J         |
|               | WG564146   | SAMP        | Mercury                    | R1922125 | J         |
|               | WG564250   | SAMP        | Benzo(g,h,i)perylene       | R1927572 | J         |
|               | WG564250   | SAMP        | 2-Chloronaphthalene        | R1927572 | J         |

Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning  |
|-----------|--|
| J         | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.  |
| O         | (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Thursday January 12, 2012

Report Number: L554491

Samples Received: 01/05/12

Client Project:

Description: Currey 16-10 Cap

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
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# REPORT OF ANALYSIS

January 12, 2012

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L554491-01

Date Received : January 05, 2012  
Description : Currey 16-10 Cap

Site ID :

Sample ID : CURREY 16-10 CAP 10IN

Project # :

Collected By : Matt Kasten  
Collection Date : 01/04/12 09:45

| Parameter   | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|---|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent  | 0.72   | 0.71    | 2.0    | mg/kg    | J         | 3060A/7 | 01/11/12 | 1    |
| Chromium, Trivalent   | 13.    | 0.17    | 0.50   | mg/kg    |           | Calc.   | 01/08/12 | 1    |
| ORP   | 72.    |         |        | mV       | T8        | 2580    | 01/10/12 | 1    |
| pH  | 8.0    |         |        | su       | T8        | 9045D   | 01/09/12 | 1    |
| Sodium Adsorption Ratio                                     | 2.3    |         |        |          |           | Calc.   | 01/11/12 | 1    |
| Specific Conductance  | 280    |         |        | umhos/cm |           | 9050AMo | 01/07/12 | 1    |
| Mercury   | 0.026  | 0.00080 | 0.020  | mg/kg    |           | 7471    | 01/09/12 | 1    |
| Arsenic   | 0.88   | 0.32    | 1.0    | mg/kg    | JP1       | 6010B   | 01/08/12 | 1    |
| Barium  | 740    | 0.050   | 0.25   | mg/kg    | J3V       | 6010B   | 01/08/12 | 1    |
| Cadmium   | U      | 0.040   | 0.25   | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Chromium  | 14.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Copper  | 17.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Lead  | 11.    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Nickel  | 14.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Selenium  | 1.0    | 0.32    | 1.0    | mg/kg    | J6        | 6010B   | 01/08/12 | 1    |
| Silver  | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| Zinc  | 50.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 01/08/12 | 1    |
| TPH (GC/FID) Low Fraction                                   | U      | 0.25    | 0.50   | mg/kg    |           | 8015D/G | 01/06/12 | 5    |
| Surrogate Recovery (70-130)<br>a,a,a-Trifluorotoluene (FID) | 108.   |         |        | % Rec.   |           | 602/801 | 01/06/12 | 5    |
| Benzene   | U      | 0.0017  | 0.0050 | mg/kg    |           | 8260B   | 01/06/12 | 5    |
| Toluene   | U      | 0.0016  | 0.025  | mg/kg    |           | 8260B   | 01/06/12 | 5    |
| Ethylbenzene  | U      | 0.0019  | 0.0050 | mg/kg    |           | 8260B   | 01/06/12 | 5    |
| Total Xylenes   | U      | 0.0023  | 0.015  | mg/kg    |           | 8260B   | 01/06/12 | 5    |
| Surrogate Recovery  |        |         |        |          |           |         |          |      |
| Toluene-d8  | 103.   |         |        | % Rec.   |           | 8260B   | 01/06/12 | 5    |
| Dibromofluoromethane  | 101.   |         |        | % Rec.   |           | 8260B   | 01/06/12 | 5    |
| a,a,a-Trifluorotoluene                                      | 106.   |         |        | % Rec.   |           | 8260B   | 01/06/12 | 5    |
| 4-Bromofluorobenzene  | 99.6   |         |        | % Rec.   |           | 8260B   | 01/06/12 | 5    |
| TPH (GC/FID) High Fraction                                  | 8.2    | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 01/06/12 | 1    |
| Surrogate recovery(%)<br>o-Terphenyl                        | 83.5   |         |        | % Rec.   |           | 3546/DR | 01/06/12 | 1    |

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Reported: 01/12/12 09:37 Printed: 01/12/12 09:38

L554491-01 (PH) - 8.03@19.7c



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# REPORT OF ANALYSIS

January 12, 2012

Daniel Padilla  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L554491-01

Site ID :

Project # :

Date Received : January 05, 2012  
Description : Currey 16-10 Cap  
Sample ID : CURREY 16-10 CAP 10IN  
Collected By : Matt Kasten  
Collection Date : 01/04/12 09:45

| Parameter                         | Result | MDL     | RDL    | Units  | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|--------|-----------|---------|----------|------|
| Polynuclear Aromatic Hydrocarbons |        |         |        |        |           |         |          |      |
| Anthracene                        | U      | 0.00076 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Acenaphthene                      | U      | 0.00071 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Acenaphthylene                    | U      | 0.00057 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Benzo(a)anthracene                | U      | 0.00092 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Benzo(a)pyrene                    | U      | 0.00062 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Benzo(b)fluoranthene              | U      | 0.00082 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Benzo(g,h,i)perylene              | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Benzo(k)fluoranthene              | U      | 0.0013  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Chrysene                          | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Dibenz(a,h)anthracene             | U      | 0.0011  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Fluoranthene                      | U      | 0.0010  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Fluorene                          | 0.0017 | 0.00055 | 0.0060 | mg/kg  | J         | 8270C-S | 01/08/12 | 1    |
| Indeno(1,2,3-cd)pyrene            | U      | 0.0012  | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Naphthalene                       | 0.0044 | 0.00065 | 0.0060 | mg/kg  | J         | 8270C-S | 01/08/12 | 1    |
| Phenanthrene                      | 0.0037 | 0.00074 | 0.0060 | mg/kg  | J         | 8270C-S | 01/08/12 | 1    |
| Pyrene                            | 0.0012 | 0.00059 | 0.0060 | mg/kg  | J         | 8270C-S | 01/08/12 | 1    |
| 1-Methylnaphthalene               | 0.0042 | 0.00079 | 0.0060 | mg/kg  | J         | 8270C-S | 01/08/12 | 1    |
| 2-Methylnaphthalene               | 0.011  | 0.00059 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| 2-Chloronaphthalene               | U      | 0.00060 | 0.0060 | mg/kg  |           | 8270C-S | 01/08/12 | 1    |
| Surrogate Recovery                |        |         |        |        |           |         |          |      |
| Nitrobenzene-d5                   | 78.1   |         |        | % Rec. |           | 8270C-S | 01/08/12 | 1    |
| 2-Fluorobiphenyl                  | 87.5   |         |        | % Rec. |           | 8270C-S | 01/08/12 | 1    |
| p-Terphenyl-d14                   | 80.4   |         |        | % Rec. |           | 8270C-S | 01/08/12 | 1    |

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Note:

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Reported: 01/12/12 09:37 Printed: 01/12/12 09:38  
L554491-01 (PH) - 8.03@19.7c

Attachment A  
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte              | Run ID   | Qualifier |
|---------------|------------|-------------|----------------------|----------|-----------|
| L554491-01    | WG572960   | SAMP        | Arsenic              | R1992872 | JP1       |
|               | WG572960   | SAMP        | Barium               | R1992872 | J3V       |
|               | WG572960   | SAMP        | Selenium             | R1992872 | J6        |
|               | WG573347   | SAMP        | Chromium, Hexavalent | R1996232 | J         |
|               | WG573141   | SAMP        | pH                   | R1993572 | T8        |
|               | WG572944   | SAMP        | Fluorene             | R1993452 | J         |
|               | WG572944   | SAMP        | Naphthalene          | R1993452 | J         |
|               | WG572944   | SAMP        | Phenanthrene         | R1993452 | J         |
|               | WG572944   | SAMP        | Pyrene               | R1993452 | J         |
|               | WG572944   | SAMP        | 1-Methylnaphthalene  | R1993452 | J         |
|               | WG573400   | SAMP        | ORP                  | R1994952 | T8        |

Attachment B  
Explanation of QC Qualifier Codes

| Qualifier | Meaning   |
|-----------|---|
| J         | (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.       |
| J3        | The associated batch QC was outside the established quality control range for precision.                    |
| J6        | The sample matrix interfered with the ability to make any accurate determination; spike value is low        |
| P1        | RPD value not applicable for sample concentrations less than 5 times the reporting limit.                   |
| T8        | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |
| V         | (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.     |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Summary of Remarks For Samples Printed  
01/12/12 at 09:38:09

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L554491-01 Account: OXYGJCO Received: 01/05/12 09:00 Due Date: 01/12/12 00:00 RPT Date: 01/12/12 09:37

OXY USA Inc. - Grand Junction, CO  
760 Horizon Dr., Ste 101  
Grand Junction, CO 81506

Alternate billing information:

CO Table 910

Report to: Daniel Padilla / Blair Rollins

Email to: daniel\_padilla@oxy.com, blai

Project Description: Currey 16-10 Cap

Phone: (970) 263-3601

FAX: ESC Key: OXYGJCO-TABLE910

Collected by: Matt Kasten

Site/Facility ID#: P.O.#:

Collected by (signature):  
(Lab MUST Be Notified)  
Same Day ..... 200%  
Next Day ..... 100%  
Two Day ..... 50%

Packed on Ice N

Sample ID: Currey 16-10 Cap

Comp/Grab: Comp SS

Depth: 10"

Date: 01/04/12

Time: 0945

No. of Cntrs: 3

Analysis/Container/Preservative

DRG, SV8270PAHSIM

SAR, SPCON, PH

MRCRA8 + Cu, Ni, Zn

CR3, CR6SS

V8260BTEX, GRO

CoCode OXYGJCO (lab use only)  
Template/Prelogin T74772

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

1554491-01

\*Matrix: SS - Soil/Solid GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Thru!

pH

Temp

Flow: 500 0623 5660

Other

Relinquished by: (Signature)

Date: 1/4/12

Time: 1300

Received by: (Signature)

Time: 3.12

Date: 1/5/12

Time: 0900

Condition: 06

Condition: (lab use only) 75

Condition: NCF:



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Est. 1970

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

## Report Summary

Tuesday May 11, 2010

Report Number: L458025

Samples Received: 05/08/10

Client Project:

Description: Pit Reclaims - Collbran

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### *Laboratory Certification Numbers*

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GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

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REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

May 11, 2010

Date Received : May 08, 2010  
Description : Pit Reclaims - Collbran  
Sample ID : WOOD SPANGLER 15-13 BG-W 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 05/06/10 12:48

ESC Sample # : L458025-01

Site ID :

Project # :

| Parameter | Result | MDL  | RDL | Units | Qualifier | Method | Date     | Dil. |
|-----------|--------|------|-----|-------|-----------|--------|----------|------|
| Arsenic   | 5.4    | 0.32 | 1.0 | mg/kg |           | 6010B  | 05/11/10 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 05/11/10 14:26 Printed: 05/11/10 14:27



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# REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

May 11, 2010

Date Received : May 08, 2010  
Description : Pit Reclaims - Collbran  
Sample ID : WOOD SPANGLER 15-13 BG-N 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 05/06/10 12:52

ESC Sample # : L458025-02

Site ID :

Project # :

| Parameter | Result | MDL  | RDL | Units | Qualifier | Method | Date     | Dil. |
|-----------|--------|------|-----|-------|-----------|--------|----------|------|
| Arsenic   | 4.8    | 0.32 | 1.0 | mg/kg |           | 6010B  | 05/11/10 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/11/10 14:26 Printed: 05/11/10 14:27



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

May 11, 2010

Date Received : May 08, 2010  
Description : Pit Reclaims - Collbran  
Sample ID : WOOD SPANGLER 15-13 BG-E 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 05/06/10 12:56

ESC Sample # : L458025-03

Site ID :

Project # :

| Parameter | Result | MDL  | RDL | Units | Qualifier | Method | Date     | Dil. |
|-----------|--------|------|-----|-------|-----------|--------|----------|------|
| Arsenic   | 4.2    | 0.32 | 1.0 | mg/kg |           | 6010B  | 05/11/10 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

Brett Kennedy  
OXY USA Inc - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

May 11, 2010

Date Received : May 08, 2010  
Description : Pit Reclaims - Collbran  
Sample ID : WOOD SPANGLER 15-13 BG-S 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 05/06/10 13:01

ESC Sample # : L458025-04

Site ID :

Project # :

| Parameter | Result | MDL  | RDL | Units | Qualifier | Method | Date     | Dil. |
|-----------|--------|------|-----|-------|-----------|--------|----------|------|
| Arsenic   | 4.4    | 0.32 | 1.0 | mg/kg |           | 6010B  | 05/11/10 | 1    |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/11/10 14:26 Printed: 05/11/10 14:27

Summary of Remarks For Samples Printed  
05/11/10 at 14:27:07

TSR Signing Reports: 134  
R4 - Rush: Three Day

Sample: L458025-01 Account: OXYGJCO Received: 05/08/10 09:00 Due Date: 05/12/10 00:00 RPT Date: 05/11/10 14:26  
Sample: L458025-02 Account: OXYGJCO Received: 05/08/10 09:00 Due Date: 05/12/10 00:00 RPT Date: 05/11/10 14:26  
Sample: L458025-03 Account: OXYGJCO Received: 05/08/10 09:00 Due Date: 05/12/10 00:00 RPT Date: 05/11/10 14:26  
Sample: L458025-04 Account: OXYGJCO Received: 05/08/10 09:00 Due Date: 05/12/10 00:00 RPT Date: 05/11/10 14:26



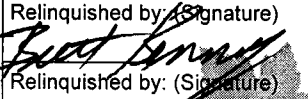

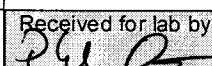
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|---|--|---|---|--|---------------|---------------------------------|----------|--|--|---|---------------------|---------------------|--|
| Company Name/Address:<br><b>OXY USA - Grand Junction, CO</b><br><br>760 Horizon Dr., Ste. 101<br>Grand Junction, CO 81506   |  |   | Alternate billing information:          |  |               | Analysis/Container/Preservative |          |  |  | Chain of Custody<br>Page <u>1</u> of <u>1</u><br><br>Prepared by: <b>D237</b><br><br> <b>ENVIRONMENTAL SCIENCE CORP.</b><br>12065 Lebanon Road<br>Mt. Juliet, TN 37122<br><br>Phone (615) 758-5858<br>Phone (800) 767-5859<br>FAX (615) 758-5859 |                     |                     |  |
| Report to: <u>Brett Kennedy</u>   |  |   | Email to: <u>brett_kennedy@oxy.com</u>  |  |               |                                 |          |  |  |   |                     |                     |  |
| Project Description: <u>Pit Reclaims - Lollbran</u>   |  |   | City/State Collected: <u>          </u> |  |               |                                 |          |  |  |   |                     |                     |  |
| Phone: (970) 263-3601   |  | Client Project #:   |   | ESC Key:   |               |                                 |          |  |  |   |                     |                     |  |
| FAX:  |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
| Collected by: <u>Brett Kennedy</u>  |  | Site/Facility ID#: <u>          </u>  |   | P.O.#: <u>          </u>   |               |                                 |          |  |  |   |                     |                     |  |
| Collected by (signature):<br><br>Immediately<br>Packed on Ice N <u>      </u> Y <u>      </u> |  | <input checked="" type="checkbox"/> <b>Rush?</b> (Lab MUST Be Notified)<br><u>      </u> Same Day. . . . . 200%<br><u>      </u> Next Day. . . . . 100%<br><u>      </u> Two Day. . . . . 50%<br><input checked="" type="checkbox"/> Three Day. . . . . 25% |   | Date Results Needed:<br>Email? <u>      </u> No <u>      </u> Yes<br>FAX? <u>      </u> No <u>      </u> Yes |               | No.<br><br>of<br><br>Cntrs      |          | CoCode: <b>OXYGJCO</b> (lab use only)<br>Template/Prelogin<br>Shipped Via: |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
| Sample ID   |  | Comp/Grab   | Matrix*                                 | Depth  | Date          | Time                            |          |  |  |   | Remarks/Contaminant | Sample # (lab only) |  |
| <u>Wood Spangler 15-13 BG-W</u>   |  | <u>Grab</u>   | <u>SS</u>                               | <u>0-6"</u>  | <u>5/6/10</u> | <u>1248</u>                     | <u>1</u> | <u>As</u>  |  |   |                     | <u>L458025-01</u>   |  |
| <u>Wood Spangler 15-13 BG-N</u>   |  | <u>↓</u>  | <u>↓</u>                                | <u>↓</u>   | <u>↓</u>      | <u>1252</u>                     | <u>1</u> | <u>✓</u>   |  |   |                     | <u>02</u>           |  |
| <u>Wood Spangler 15-13 BG-E</u>   |  | <u>↓</u>  | <u>↓</u>                                | <u>↓</u>   | <u>↓</u>      | <u>1256</u>                     | <u>1</u> | <u>✓</u>   |  |   |                     | <u>03</u>           |  |
| <u>Wood Spangler 15-13 BG-S</u>   |  | <u>↓</u>  | <u>↓</u>                                | <u>↓</u>   | <u>↓</u>      | <u>1301</u>                     | <u>1</u> | <u>✓</u>   |  |   |                     | <u>04</u>           |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |
|   |  |   |   |  |               |                                 |          |  |  |   |                     |                     |  |

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

|  |                        |                      |  |  |  |  |
|--|------------------------|----------------------|--|--|--|--|
| Relinquished by: (Signature)<br> | Date:<br><u>5/7/10</u> | Time:<br><u>1610</u> | Received by: (Signature)<br>        | Samples returned via: <input type="checkbox"/> UPS<br><input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier | Condition: (lab use only)<br><u>OK</u> |  |
|  | Date:                  | Time:                | Received by: (Signature)   | Temp:<br><u>3.4°C</u>  | Bottles Received:<br><u>4</u>          | CoC Seals Intact <u>      </u> Y <u>      </u> N <u>NA</u> |
| Relinquished by: (Signature)   | Date:                  | Time:                | Received for lab by: (Signature)<br> | Date:<br><u>5-8-10</u>   | Time:<br><u>0900</u>                   | pH Checked: <u>      </u> NCF: <u>      </u>               |

8681 2179 8676