

FOR OGCC USE ONLY

#6738

OGCC Employee:

☐ Spill

☐ Complaint

☐ Inspection

☐ NOAV

Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release

☐ Plug & Abandon

☐ Central Facility Closure

☒ Site/Facility Closure

☐ Other (describe):

OGCC Operator Number: 66571

Contact Name and Telephone:

Name of Operator: OXY USA WTP LP

Daniel I. Padilla

Address: 760 Horizon Drive, Suite 101

No: 970.263.3637

City: Grand Junction State: CO Zip: 81506

Fax: 970.263.3694

API Number: 05-045-07810

County: Garfield

Facility Name: 617-41 Blow-down pit

Facility Number: 273646

Well Name: Cascade Creek

Well Number: 617-41

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NENE, SEC 17, T6S, R97W, 6PM

Latitude: 39.52817 Longitude: -108.236411

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Not Applicable

Site Conditions: Is location within a sensitive area (according to Rule 901e)? 

☐ Y ☒ N

 If yes, attach evaluation.

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Parachute-Irigul complex 5-30% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Nearest water well is ~6336' west of the pit. A natural drainage is ~150 south of the pit and flows into the intermittent drainage located ~950' to the southwest. The unnamed drainage connects with Conn Creek ~ 5545' south of pit.

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

Impacted Media (check):

Extent of Impact:

How Determined:

☐ Soils

N/A

Laboratory analytical results

☐ Vegetation

N/A

Visual

☐ Groundwater

N/A

Visual inspection below pit liner

☐ Surface Water

N/A

Visual

REMEDIALTION WORKPLAN

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

Oxy permitted the pit as a blow-down pit in September 2004. Oxy closed the pit in 2008 and is providing this pit closure form/plan for COGCC review/approval.

Describe how source is to be removed:

In 2008, Oxy removed liquids from inside the blow-down pit, no solids were encountered. Liquids removed from the pit were placed into Oxy's water system for reuse. Oxy disposed of the pit liner at the Garfield County Landfill. Based on the sampling results of the pit bottom, all analytes are found to be below allowable concentration levels except for arsenic (As) and specific conductance (EC). Although the As concentrations are above the COGCC regulated concentration, Oxy collected background samples in undisturbed locations from an adjacent pad with the same soil type (Parachute-Irigul complex, 5 to 30 percent slopes) which identified elevated concentrations of As to be above concentrations found in the pit bottom composite sample. Following the clearance samples collected from the pit bottom, Oxy constructed CC-Pond 11 (Facility ID 414399), a produced water storage pond in the footprint of the pit. To address the high concentrations of EC, Oxy will place a minimum three feet cap to provide a sufficient agronomic zone for revegetation efforts following the closure of existing Pond 11. The site will be contoured to be level with the existing pad grade.

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

Liquids were removed from the blow-down pit and no solids were encountered. Liquids present in the pit were placed into Oxy's water system for reuse. The 30-mil HDPE liner was disposed of at the Garfield County Landfill. Analytical concentrations found in the pit bottom are below the COGCC's Table 910-1 concentrations except for As and EC. Oxy collected background samples in undisturbed locations from an adjacent pad with the same soil type which identified elevated concentrations of arsenic to be above concentrations found in the pit bottom. To address the high concentrations of EC, Oxy will place a minimum three feet cap to provide a sufficient agronomic zone for revegetation efforts following the closure of existing Pond 11. The site will be contoured to be level with the existing pad grade.

Pit Facility ID # 273646  
Location ID # 324160  
API # 045 07810

FORM  
27  
Rev 8/99

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



Page 2  
REMEDATION WORKPLAN (Cont.)

Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: 617-41 Blow-down pit

OGCC Employee: \_\_\_\_\_

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

No groundwater was impacted by the pit. The pit was lined with a 30-mil HDPE liner. This pit was used as a blow-down pit and no solids were encountered in the pit during closure activities. During excavation of the pit liner, an Oxy contractor was present to observe the soil below the liner. The contractor collected soil samples from below the pit liner to ensure environmental impacts were not present. Laboratory analytical results are included which identify the approximate sampling location within the pit at depth and compliance with the OGCC Table 910-1 allowable concentrations, except for As and EC. Oxy collected background samples in undisturbed locations from an adjacent pad with the same soil type which identified elevated concentrations of arsenic to be above concentrations found in the pit bottom. To address elevated concentrations of EC, Oxy will cap the bottom of CC Pond 11 with at least three feet of native material to ensure a sufficient agronomic zone.

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

The blow-down pit was constructed at grade with Oxy's Cascade Creek 617-41 well pad, and was approximately 15 feet deep. The pit liner was sent to the Garfield County Landfill. The reclaimed pit was used in the construction of CC-Pond 11. Final pad reclamation will occur at the end of the life of the pad and will be level with the pad grade to minimize stormwater runoff.

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

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

Oxy will monitor stormwater compliance following the closure and revegetation of the 617-41 pad.

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

Oxy removed all liquids within the blow-down pit and redistributed them into Oxy's water system for reuse. No solids were encountered during removal of the liquids from the pit. Note that the pit liner was disposed of at the Garfield County Landfill.

#### IMPLEMENTATION SCHEDULE

|  |  |  |
|--|--|--|
| Date Site Investigation Began: 7/15/2008 | Date Site Investigation Completed: 9/17/2008 | Date Remediation Plan Submitted: 5/18/11 |
| Remediation Start Date: 8/21/2008        | Anticipated Completion Date: 5/27/2011       | Actual Completion Date: _____            |

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

Print Name: Daniel L. Padilla Signed: \_\_\_\_\_  
Title: Regulatory Advisor Date: 5/18/11

OGCC Approved: \_\_\_\_\_ Title: FOR Date: 12/09/2011  
Chris Camfield  
EPS NW Region

## Pit Reclaims - Cascade Creek

Pad #: 617-41  
Sample Date: 9/17/2008  
Clearance Achieved Date:

|                          | MCL (mg/kg)                  | Sample Identifications (mg/kg) |  |  |                             |                                 | East Background<br>1/27/11 | Northeast Background<br>1/27/11 |
|--------------------------|------------------------------|--------------------------------|--|--|-----------------------------|---------------------------------|----------------------------|---------------------------------|
|                          |                              | Post Reclaim<br>9/17/08        | Excavation Background (1) 10-<br>12' 1/27/11 | Excavation Background (2) 10-<br>12' 1/27/11 | South Background<br>1/27/11 | Southeast Background<br>1/27/11 |                            |                                 |
| Organics in Soil         |                              |                                |  |  |                             |                                 |                            |                                 |
| TPH (GRO and DRO)        | 500                          | 130.0                          | BDL  | BDL  | 1.9                         | 1.6                             | 0.9                        | 3.2                             |
| Benzene                  | 0.17                         | <0.0025                        | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Toluene                  | 85                           | <0.025                         | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Ethylbenzene             | 100                          | <0.0025                        | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Xylenes                  | 175                          | <0.0075                        | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Organics in Soil (PAH's) |                              |                                |  |  |                             |                                 |                            |                                 |
| Acenaphthene             | 1000                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Anthracene               | 1000                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Benzo(A)anthracene       | 0.22                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Benzo(B)fluoranthene     | 0.22                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Benzo(K)fluoranthene     | 2.2                          | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Benzo(A)pyrene           | 0.022                        | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Chrysene                 | 22                           | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Dibenzo(A,H)anthracene   | 0.022                        | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Fluoranthene             | 1000                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Flourene                 | 1000                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Indeno(1,2,3,C,D)pyrene  | 0.22                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Napthalene               | 23                           | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Pyrene                   | 1000                         | NA                             | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Inorganics in Soil       |                              |                                |  |  |                             |                                 |                            |                                 |
| EC                       | <4 mmhos/cm or 2X background | 5.20                           | 0.098  | 0.1  | 0.051                       | 0.059                           | 0.065                      | 0.064                           |
| SAR                      | <12                          | 4.5                            | 1.4  | 1.1  | 0.61                        | 0.41                            | 0.41                       | 0.44                            |
| pH                       | 6-9                          | 7.7                            | 8.3  | 8.4  | 6.2                         | 6.6                             | 6.6                        | 6.6                             |
| Metals in Soils          |                              |                                |  |  |                             |                                 |                            |                                 |
| Arsenic                  | 0.39                         | 9.2                            | 17   | 18   | 4.9                         | 17                              | 13                         | 10                              |
| Barium                   | 15000                        | 1300                           | 310  | 260  | 280                         | 420                             | 320                        | 280                             |
| Boron                    | 2 (mg/L)                     | 13 (6010B)                     | BDL  | 3.3  | 5.4                         | 3.5                             | 3.7                        | 1.8                             |
| Cadmium                  | 70                           | 0.26                           | BDL  | BDL  | 0.068                       | BDL                             | BDL                        | BDL                             |
| Chromium                 | 12000                        | 48.0                           | 71   | 63   | 33                          | 61                              | 50                         | 43                              |
| Chromium VI              | 23                           | NA                             | BDL  | BDL  | 7.2                         | 8.4                             | 8.6                        | 7.8                             |
| Copper                   | 3100                         | 16.0                           | 17   | 18   | 14                          | 14                              | 12                         | 9.2                             |
| Lead                     | 400                          | 14.0                           | 13   | 13   | 12                          | 12                              | 9.8                        | 8.5                             |
| Mercury                  | 23                           | 0.021                          | 0.017  | 0.019  | 0.0089                      | 0.012                           | 0.0069                     | 0.0097                          |
| Selenium                 | 390                          | 27.0                           | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Silver                   | 390                          | <1.0                           | BDL  | BDL  | BDL                         | BDL                             | BDL                        | BDL                             |
| Zinc                     | 23000                        | <0.50                          | 47   | 49   | 45                          | 42                              | 35                         | 29                              |

BDL = Below detection limit

\*\* COGCC removed the LDNR True Total Method and is now allowing the SW846 method (per a clarification to the new rules)

\*\*\* COGCC allows us to no longer sample for Boron (per a clarification to the new rules)



**617-41 Sampling Location Map**

Revised: April 21, 2011      Garfield County, Colorado



697-08-53 Pad

NE Back

BE-1  
BE-2

E Back

S Back

SE Back

617-41 Pad

- Approximate location of blow-down pit
- Blow-down pit bottom composite location
- Background sample location





# ENVIRONMENTAL SCIENCE CORP.

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Est. 1970

## REPORT OF ANALYSIS

October 06, 2008

Blair Rollins  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

Date Received : September 20, 2008  
Description : Pit Bottom Sampling  
Sample ID : 617-41  
Collected By : David Spencer  
Collection Date : 09/17/08 08:28

ESC Sample # : L366196-03

Site ID :

Project # : 7830-060

| Parameter                    | Result | Det. Limit | Units    | Method    | Date     | Dil. |
|------------------------------|--------|------------|----------|-----------|----------|------|
| pH                           | 7.7    |            | su       | 9045D     | 09/23/08 | 1    |
| Sodium Adsorption Ratio      | 4.5    |            |          | Calc.     | 09/24/08 | 1    |
| Specific Conductance         | 5200   |            | umhos/cm | 9050AMod  | 09/23/08 | 1    |
| Mercury                      | 0.021  | 0.020      | mg/kg    | 7471      | 09/25/08 | 1    |
| Arsenic                      | 9.2    | 1.0        | mg/kg    | 6010B     | 09/29/08 | 1    |
| Beryllium                    | 0.70   | 0.10       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Boron                        | 13.    | 10.        | mg/kg    | 6010B     | 09/30/08 | 1    |
| Cadmium                      | 0.26   | 0.25       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Chromium                     | 48.    | 0.50       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Copper                       | 16.    | 1.0        | mg/kg    | 6010B     | 09/29/08 | 1    |
| Lead                         | 14.    | 0.25       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Molybdenum                   | 1.4    | 0.25       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Nickel                       | 27.    | 1.0        | mg/kg    | 6010B     | 09/29/08 | 1    |
| Selenium                     | BDL    | 1.0        | mg/kg    | 6010B     | 09/29/08 | 1    |
| Silver                       | BDL    | 0.50       | mg/kg    | 6010B     | 09/29/08 | 1    |
| Zinc                         | 67.    | 1.5        | mg/kg    | 6010B     | 09/29/08 | 1    |
| Benzene                      | BDL    | 0.0025     | mg/kg    | 8021/8015 | 09/25/08 | 5    |
| Toluene                      | BDL    | 0.025      | mg/kg    | 8021/8015 | 09/25/08 | 5    |
| Ethylbenzene                 | BDL    | 0.0025     | mg/kg    | 8021/8015 | 09/25/08 | 5    |
| Total Xylene                 | BDL    | 0.0075     | mg/kg    | 8021/8015 | 09/25/08 | 5    |
| TPH (GC/FID) Low Fraction    | BDL    | 0.50       | mg/kg    | GRO       | 09/25/08 | 5    |
| Surrogate Recovery (70-130)  |        |            |          |           |          |      |
| a,a,a-Trifluorotoluene (FID) | 92.9   |            | % Rec.   | 8021/8015 | 09/25/08 | 5    |
| a,a,a-Trifluorotoluene (PID) | 99.6   |            | % Rec.   | 8021/8015 | 09/25/08 | 5    |
| TPH (GC/FID) High Fraction   | 130    | 4.0        | mg/kg    | 3546/DRO  | 09/26/08 | 1    |
| Surrogate Recovery (50-150)  |        |            |          |           |          |      |
| o-Terphenyl                  | 68.6   |            | % Rec.   | 3546/DRO  | 09/26/08 | 1    |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 10/06/08 12:32 Printed: 10/06/08 12:32  
L366196-03 (PH) - 7.7@21.8c



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Est. 1970

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

### Report Summary

Thursday February 03, 2011

Report Number: L499536

Samples Received: 01/29/11

Client Project:

Description: Pond 6 background Samples

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

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

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : BE-1 1155 10-12 FT  
Collected By : Travis Brophy  
Collection Date : 01/27/11 11:55

ESC Sample # : L499536-01

Site ID :

Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | U      | 0.42    | 2.0    | mg/kg    |           | 3060A/7 | 02/03/11 | 1    |
| Chromium, Trivalent               | 71.    | 0.17    | 2.0    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 110    |         |        | mV       |           | 2580    | 02/01/11 | 1    |
| pH                                | 8.3    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 1.4    |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 98.    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.017  | 0.0015  | 0.020  | mg/kg    | JP1       | 7471    | 02/01/11 | 1    |
| Arsenic                           | 17.    | 0.32    | 1.0    | mg/kg    | J3        | 6010B   | 02/02/11 | 1    |
| Barium                            | 310    | 0.050   | 0.25   | mg/kg    | J3V       | 6010B   | 02/02/11 | 1    |
| Boron                             | U      | 0.78    | 10.    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Cadmium                           | U      | 0.20    | 1.3    | mg/kg    | O         | 6010B   | 02/02/11 | 5    |
| Chromium                          | 71.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 17.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 13.    | 0.090   | 0.25   | mg/kg    | J3        | 6010B   | 02/02/11 | 1    |
| Nickel                            | 43.    | 0.26    | 1.0    | mg/kg    | J3J6      | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 1.6     | 5.0    | mg/kg    | O         | 6010B   | 02/02/11 | 5    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 47.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 96.4   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 97.7   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | U      | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 02/02/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 81.5   |         |        | % Rec.   |           | 3546/DR | 02/02/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 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: 02/03/11 15:31 Printed: 02/03/11 15:44  
L499536-01 (PH) - 8.3@18.3C



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Est. 1970

# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : BE-1 1155 10-12 FT  
Collected By : Travis Brophy  
Collection Date : 01/27/11 11:55

ESC Sample # : L499536-01

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units  | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|--------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |        |           |        |          |      |
| Nitrobenzene-d5        | 68.2   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 68.3   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 79.0   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |

U = ND (Not Detected)

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L499536-01 (PH) - 8.3@18.3C





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Est. 1970

# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : BE-2 1200 10-12 FT  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:00

ESC Sample # : L499536-02

Site ID :

Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | U      | 0.42    | 2.0    | mg/kg    |           | 3060A/7 | 02/03/11 | 1    |
| Chromium, Trivalent               | 63.    | 0.17    | 2.0    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 99.    |         |        | mV       |           | 2580    | 02/01/11 | 1    |
| pH                                | 8.4    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 1.1    |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 100    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.019  | 0.0015  | 0.020  | mg/kg    | J         | 7471    | 02/03/11 | 1    |
| Arsenic                           | 18.    | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Barium                            | 260    | 0.050   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Boron                             | 3.3    | 0.78    | 10.    | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Cadmium                           | U      | 0.040   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Chromium                          | 63.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 18.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 13.    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Nickel                            | 32.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 1.6     | 5.0    | mg/kg    | O         | 6010B   | 02/02/11 | 5    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 49.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 97.0   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 98.5   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | U      | 0.77    | 4.0    | mg/kg    |           | 3546/DR | 02/01/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 78.0   |         |        | % Rec.   |           | 3546/DR | 02/01/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |

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L499536-02 (PH) - 8.4@18.4C



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Est. 1970

# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : BE-2 1200 10-12 FT  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:00

ESC Sample # : L499536-02

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|-------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |       |           |        |          |      |
| Nitrobenzene-d5        | 73.6   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 76.7   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 78.1   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |

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L499536-02 (PH) - 8.4@18.4C



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# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : S BACK 1150 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 11:50

ESC Sample # : L499536-03

Site ID :

Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | 7.2    | 2.1     | 10.    | mg/kg    | J         | 3060A/7 | 02/03/11 | 5    |
| Chromium, Trivalent               | 26.    | 0.17    | 10.    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 63.    |         |        | mV       |           | 2580    | 02/03/11 | 1    |
| pH                                | 6.2    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 0.61   |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 51.    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.0089 | 0.0015  | 0.020  | mg/kg    | J         | 7471    | 02/03/11 | 1    |
| Arsenic                           | 4.9    | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Barium                            | 280    | 0.050   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Boron                             | 5.4    | 0.78    | 10.    | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Cadmium                           | 0.068  | 0.040   | 0.25   | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Chromium                          | 33.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 14.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 12.    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Nickel                            | 16.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 45.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 96.8   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 99.1   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | 1.9    | 0.77    | 4.0    | mg/kg    | J         | 3546/DR | 02/01/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 75.9   |         |        | % Rec.   |           | 3546/DR | 02/01/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |

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L499536-03 (PH) - 6.2@19.0C



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# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : S BACK 1150 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 11:50

ESC Sample # : L499536-03

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units  | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|--------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |        |           |        |          |      |
| Nitrobenzene-d5        | 79.2   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 74.6   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 66.5   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |

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# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : SE BACK 1214 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:14

ESC Sample # : L499536-04  
Site ID :  
Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | 8.4    | 2.1     | 10.    | mg/kg    | J         | 3060A/7 | 02/03/11 | 5    |
| Chromium, Trivalent               | 52.    | 0.17    | 10.    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 110    |         |        | mV       |           | 2580    | 02/03/11 | 1    |
| pH                                | 6.6    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 0.41   |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 59.    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.012  | 0.0015  | 0.020  | mg/kg    | J         | 7471    | 02/03/11 | 1    |
| Arsenic                           | 17.    | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Barium                            | 420    | 0.050   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Boron                             | 3.5    | 0.78    | 10.    | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Cadmium                           | U      | 0.20    | 1.3    | mg/kg    | O         | 6010B   | 02/02/11 | 5    |
| Chromium                          | 61.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 14.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 12.    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Nickel                            | 29.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 42.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 96.6   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 97.2   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | 1.6    | 0.77    | 4.0    | mg/kg    | J         | 3546/DR | 02/02/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 71.8   |         |        | % Rec.   |           | 3546/DR | 02/02/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |

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Reported: 02/03/11 15:31 Printed: 02/03/11 15:44  
L499536-04 (PH) - 6.6@18.3C



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

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : SE BACK 1214 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:14

ESC Sample # : L499536-04

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units  | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|--------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg  |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |        |           |        |          |      |
| Nitrobenzene-d5        | 78.3   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 70.5   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 51.9   |        |       | % Rec. |           | 8270C  | 02/02/11 | 1    |

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Est. 1970

# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : E BACK 1220 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:20

ESC Sample # : L499536-05  
Site ID :  
Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | 8.6    | 2.1     | 10.    | mg/kg    | J         | 3060A/7 | 02/03/11 | 5    |
| Chromium, Trivalent               | 41.    | 0.17    | 10.    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 120    |         |        | mV       |           | 2580    | 02/03/11 | 1    |
| pH                                | 6.6    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 0.41   |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 65.    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.0069 | 0.0015  | 0.020  | mg/kg    | J         | 7471    | 02/03/11 | 1    |
| Arsenic                           | 13.    | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Barium                            | 320    | 0.050   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Boron                             | 3.7    | 0.78    | 10.    | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Cadmium                           | U      | 0.040   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Chromium                          | 50.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 12.    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 9.8    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Nickel                            | 22.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 1.6     | 5.0    | mg/kg    | O         | 6010B   | 02/02/11 | 5    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 35.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 96.5   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 99.4   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | 0.90   | 0.77    | 4.0    | mg/kg    | J         | 3546/DR | 02/01/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 62.7   |         |        | % Rec.   |           | 3546/DR | 02/01/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |

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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : E BACK 1220 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:20

ESC Sample # : L499536-05

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|-------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |       |           |        |          |      |
| Nitrobenzene-d5        | 79.1   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 74.0   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 52.5   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |

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# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : NE 1230 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:30

ESC Sample # : L499536-06

Site ID :

Project # :

| Parameter                         | Result | MDL     | RDL    | Units    | Qualifier | Method  | Date     | Dil. |
|-----------------------------------|--------|---------|--------|----------|-----------|---------|----------|------|
| Chromium, Hexavalent              | 7.8    | 2.1     | 10.    | mg/kg    | J         | 3060A/7 | 02/03/11 | 5    |
| Chromium, Trivalent               | 35.    | 0.17    | 10.    | mg/kg    |           | Calc.   | 02/02/11 | 1    |
| ORP                               | 130    |         |        | mV       |           | 2580    | 02/03/11 | 1    |
| pH                                | 6.6    |         |        | su       |           | 9045D   | 02/02/11 | 1    |
| Sodium Adsorption Ratio           | 0.44   |         |        |          |           | Calc.   | 02/01/11 | 1    |
| Specific Conductance              | 64.    |         |        | umhos/cm |           | 9050AMo | 02/02/11 | 1    |
| Mercury                           | 0.0097 | 0.0015  | 0.020  | mg/kg    | J         | 7471    | 02/03/11 | 1    |
| Arsenic                           | 10.    | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Barium                            | 280    | 0.050   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Boron                             | 1.8    | 0.78    | 10.    | mg/kg    | J         | 6010B   | 02/02/11 | 1    |
| Cadmium                           | U      | 0.040   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Chromium                          | 43.    | 0.085   | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Copper                            | 9.2    | 0.21    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Lead                              | 8.5    | 0.090   | 0.25   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Nickel                            | 19.    | 0.26    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Selenium                          | U      | 0.32    | 1.0    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Silver                            | U      | 0.16    | 0.50   | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Zinc                              | 29.    | 0.34    | 1.5    | mg/kg    |           | 6010B   | 02/02/11 | 1    |
| Benzene                           | U      | 0.00090 | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Toluene                           | U      | 0.0015  | 0.025  | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Ethylbenzene                      | U      | 0.0013  | 0.0025 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| Total Xylene                      | U      | 0.0028  | 0.0075 | mg/kg    |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) Low Fraction         | U      | 0.14    | 0.50   | mg/kg    |           | GRO     | 01/30/11 | 5    |
| Surrogate Recovery-%              |        |         |        |          |           |         |          |      |
| a,a,a-Trifluorotoluene (FID)      | 96.3   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| a,a,a-Trifluorotoluene (PID)      | 99.6   |         |        | % Rec.   |           | 8021/80 | 01/30/11 | 5    |
| TPH (GC/FID) High Fraction        | 3.2    | 0.77    | 4.0    | mg/kg    | J         | 3546/DR | 02/02/11 | 1    |
| Surrogate recovery(%)             |        |         |        |          |           |         |          |      |
| o-Terphenyl                       | 65.0   |         |        | % Rec.   |           | 3546/DR | 02/02/11 | 1    |
| Polynuclear Aromatic Hydrocarbons |        |         |        |          |           |         |          |      |
| Anthracene                        | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthene                      | U      | 0.0082  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |
| Acenaphthylene                    | U      | 0.0078  | 0.033  | mg/kg    |           | 8270C   | 02/02/11 | 1    |

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L499536-06 (PH) - 6.6@18.4C



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# REPORT OF ANALYSIS

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

February 03, 2011

Date Received : January 29, 2011  
Description : Pond 6 background Samples  
Sample ID : NE 1230 2-6 IN  
Collected By : Travis Brophy  
Collection Date : 01/27/11 12:30

ESC Sample # : L499536-06

Site ID :

Project # :

| Parameter              | Result | MDL    | RDL   | Units | Qualifier | Method | Date     | Dil. |
|------------------------|--------|--------|-------|-------|-----------|--------|----------|------|
| Benzo(a)anthracene     | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(a)pyrene         | U      | 0.0073 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(b)fluoranthene   | U      | 0.0086 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(g,h,i)perylene   | U      | 0.0050 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Benzo(k)fluoranthene   | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Chrysene               | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Dibenz(a,h)anthracene  | U      | 0.0058 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluoranthene           | U      | 0.0069 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Fluorene               | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Indeno(1,2,3-cd)pyrene | U      | 0.0059 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Naphthalene            | U      | 0.0074 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Phenanthrene           | U      | 0.0067 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Pyrene                 | U      | 0.0077 | 0.033 | mg/kg |           | 8270C  | 02/02/11 | 1    |
| Surrogate Recovery     |        |        |       |       |           |        |          |      |
| Nitrobenzene-d5        | 71.4   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| 2-Fluorobiphenyl       | 69.0   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |
| p-Terphenyl-d14        | 49.4   |        |       | %     | Rec.      | 8270C  | 02/02/11 | 1    |

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Attachment A  
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte                    | Run ID   | Qualifier |
|---------------|------------|-------------|----------------------------|----------|-----------|
| L499536-01    | WG519652   | SAMP        | Arsenic                    | R1561471 | J3        |
|               | WG519652   | SAMP        | Barium                     | R1561471 | J3V       |
|               | WG519652   | SAMP        | Cadmium                    | R1561471 | O         |
|               | WG519652   | SAMP        | Lead                       | R1561471 | J3        |
|               | WG519652   | SAMP        | Nickel                     | R1561471 | J3J6      |
|               | WG519652   | SAMP        | Selenium                   | R1561471 | O         |
|               | WG519569   | SAMP        | Mercury                    | R1559672 | JP1       |
| L499536-02    | WG519652   | SAMP        | Boron                      | R1561471 | J         |
|               | WG519652   | SAMP        | Selenium                   | R1561471 | O         |
| L499536-03    | WG519636   | SAMP        | Mercury                    | R1561770 | J         |
|               | WG519652   | SAMP        | Boron                      | R1561471 | J         |
|               | WG519652   | SAMP        | Cadmium                    | R1561471 | J         |
| L499536-04    | WG519706   | SAMP        | TPH (GC/FID) High Fraction | R1559811 | J         |
|               | WG519190   | SAMP        | Chromium, Hexavalent       | R1561829 | J         |
|               | WG519636   | SAMP        | Mercury                    | R1561770 | J         |
|               | WG519652   | SAMP        | Boron                      | R1561471 | J         |
|               | WG519652   | SAMP        | Cadmium                    | R1561471 | O         |
|               | WG519706   | SAMP        | TPH (GC/FID) High Fraction | R1559811 | J         |
|               | WG519190   | SAMP        | Chromium, Hexavalent       | R1561829 | J         |
| L499536-05    | WG519636   | SAMP        | Mercury                    | R1561770 | J         |
|               | WG519652   | SAMP        | Boron                      | R1561471 | J         |
|               | WG519652   | SAMP        | Selenium                   | R1561471 | O         |
|               | WG519706   | SAMP        | TPH (GC/FID) High Fraction | R1559811 | J         |
| L499536-06    | WG519190   | SAMP        | Chromium, Hexavalent       | R1561829 | J         |
|               | WG519636   | SAMP        | Mercury                    | R1561770 | J         |
|               | WG519652   | SAMP        | Boron                      | R1561471 | J         |
|               | WG519706   | SAMP        | TPH (GC/FID) High Fraction | R1559811 | J         |
|               | WG519190   | SAMP        | Chromium, Hexavalent       | R1561829 | J         |
|               | WG519636   | SAMP        | Mercury                    | R1561770 | J         |

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   |
| V         | (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.  |
| P1        | RPD value not applicable for sample concentrations less than 5 times the reporting limit.  |
| 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 NELAP. 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.