

State of Colorado
Oil and Gas Conservation Commission



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

FOR OGCC USE ONLY

#6737

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: <u>66571</u> | Contact Name and Telephone: <u>Daniel I. Padilla</u> |
| Name of Operator: <u>OXY USA WTP LP</u> | No: <u>(970) 263-3637</u> |
| Address: <u>760 Horizon Drive, Suite 101</u> | Fax: <u>(970) 263-3694</u> |
| City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u> | |
| API Number: <u>05-045-10653</u> | County: <u>Garfield</u> |
| Facility Name: <u>CC Pond 5</u> | Facility Number: <u>291945</u> |
| Well Name: <u>Cascade Creek</u> | Well Number: <u>608-43-31</u> |
| Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NESE, Sec 7, T6S, R97W, 6th PM</u> Latitude: <u>39.536119</u> Longitude: <u>-108.237789</u> | |

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 ~5,177' northwest, nearest surface water body is an unnamed drainage is ~791' southeast, nearest drainage is ~430' east.

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

| | | |
|--|-------------------|--|
| Impacted Media (check): | Extent of Impact: | How Determined: |
| <input type="checkbox"/> Soils | <u>N/A</u> | <u>Laboratory analytical results</u> |
| <input type="checkbox"/> Vegetation | <u>N/A</u> | <u>Visual</u> |
| <input type="checkbox"/> Groundwater | <u>N/A</u> | <u>Visual inspection below pit liner</u> |
| <input type="checkbox"/> Surface Water | <u>N/A</u> | <u>Visual</u> |

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
Oxy permitted this pit as a production pit in August 2007. Oxy closed this 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 found inside the production pit, and 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 concentrations except for arsenic (As) and sodium adsorption ratio (SAR). 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. To address the high concentrations of SAR, Oxy placed at least three foot cap to provide a sufficient agronomic zone for revegetation efforts.

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 production pit and no solids were encountered. Liquids present in the pit were placed into Oxy's water system for reuse. The 60-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 SAR. Oxy collected background samples in undisturbed locations from an adjacent pad with the same soil type which identified elevated concentrations of As to be above concentrations found in the pit bottom. To address the high concentrations of SAR, Oxy placed at least three feet cap to provide a sufficient agronomic zone for revegetation efforts. The site will be contoured to be level with the existing pad grade.

Pit Facility ID # 291945
Location ID # 383337
API : 045 10653



State of Colorado
Oil and Gas Conservation Commission
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Page 2
REMEDIAL WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: CC Pond 5

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 60-mil HDPHE liner. This pit was used as a production 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 (included) identify the approximate sampling location within the pit at depth and compliance with the OGCC Table 910-1 allowable concentrations, except for As and SAR. Oxy collected background samples in undisturbed locations from an adjacent pad with the same soil type which identified elevated concentrations of As to be above concentrations found in the pit bottom. To address elevated concentrations of SAR, Oxy capped the bottom of the pit 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 production pit was constructed at grade with Oxy's Cascade Creek 608-43-31 well pad, and was approximately 15 feet deep. The pit liner was sent to the Garfield County Landfill for disposal. The reclaimed pit was contoured to be level with the pad grade to minimize stormwater runoff. Final pad reclamation will occur at the end of the life of the pad.

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 revegetation efforts of the location following the closure of the well pad and revegetation of the entire site.

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

Oxy removed all liquids within the production pit and redistributed them into Oxy's water system for reuse. No solids were encountered during removal of the liquids from the production 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: 8/10/2008 | 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 I. Padilla Signed: [Signature]
Title: Regulatory Advisor Date: 5/18/11

OGCC Approved: [Signature] Title: FOR Chris Camfield Date: 12/09/2011
EPS NW Region

Pit Reclaims - Cascade Creek

Pad #: 608-43-31
Sample Date: 9/17/2008
Clearance Achieved Date:

| | | Sample Identifications (mg/kg) | | | | | | |
|---------------------------------|------------------------------|--------------------------------|---|---|-----------------------------|---------------------------------|----------------------------|------------------------------------|
| | MCL (mg/kg) | Post Reclaim 9/17/08 | Excavation Background (1) 10- 12' 1/27/11 | Excavation Background (2) 10- 12' 1/27/11 | South Background 1/27/11 | Southeast Background 1/27/11 | East Background 1/27/11 | Northeast Background 1/27/11 |
| Organics in Soil | | | | | | | | |
| TPH (GRO and DRO) - Sen Area | 500 | 79.0 | 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 | 3.70 | 0.098 | 0.1 | 0.051 | 0.059 | 0.065 | 0.064 |
| SAR | <12 | 13.0 | 1.4 | 1.1 | 0.61 | 0.41 | 0.41 | 0.44 |
| pH | 6-9 | 8.1 | 8.3 | 8.4 | 6.2 | 6.6 | 6.6 | 6.6 |
| Metals in Soils | | | | | | | | |
| Arsenic | 0.39 | 8.0 | 17 | 18 | 4.9 | 17 | 13 | 10 |
| Barium | 15000 | Not Sampled | 310 | 260 | 280 | 420 | 320 | 280 |
| Boron | 2 (mg/L) | 14 (total) | BDL | 3.3 | 5.4 | 3.5 | 3.7 | 1.8 |
| Cadmium | 70 | <0.25 | BDL | BDL | 0.068 | BDL | BDL | BDL |
| Chromium | 12000 | 58.0 | 71 | 63 | 33 | 61 | 50 | 43 |
| Chromium VI | 23 | NA | BDL | BDL | 7.2 | 8.4 | 8.6 | 7.8 |
| Copper | 3100 | 14.0 | 17 | 18 | 14 | 14 | 12 | 9.2 |
| Lead | 400 | 14.0 | 13 | 13 | 12 | 12 | 9.8 | 8.5 |
| Mercury | 23 | 0.061 | 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 |

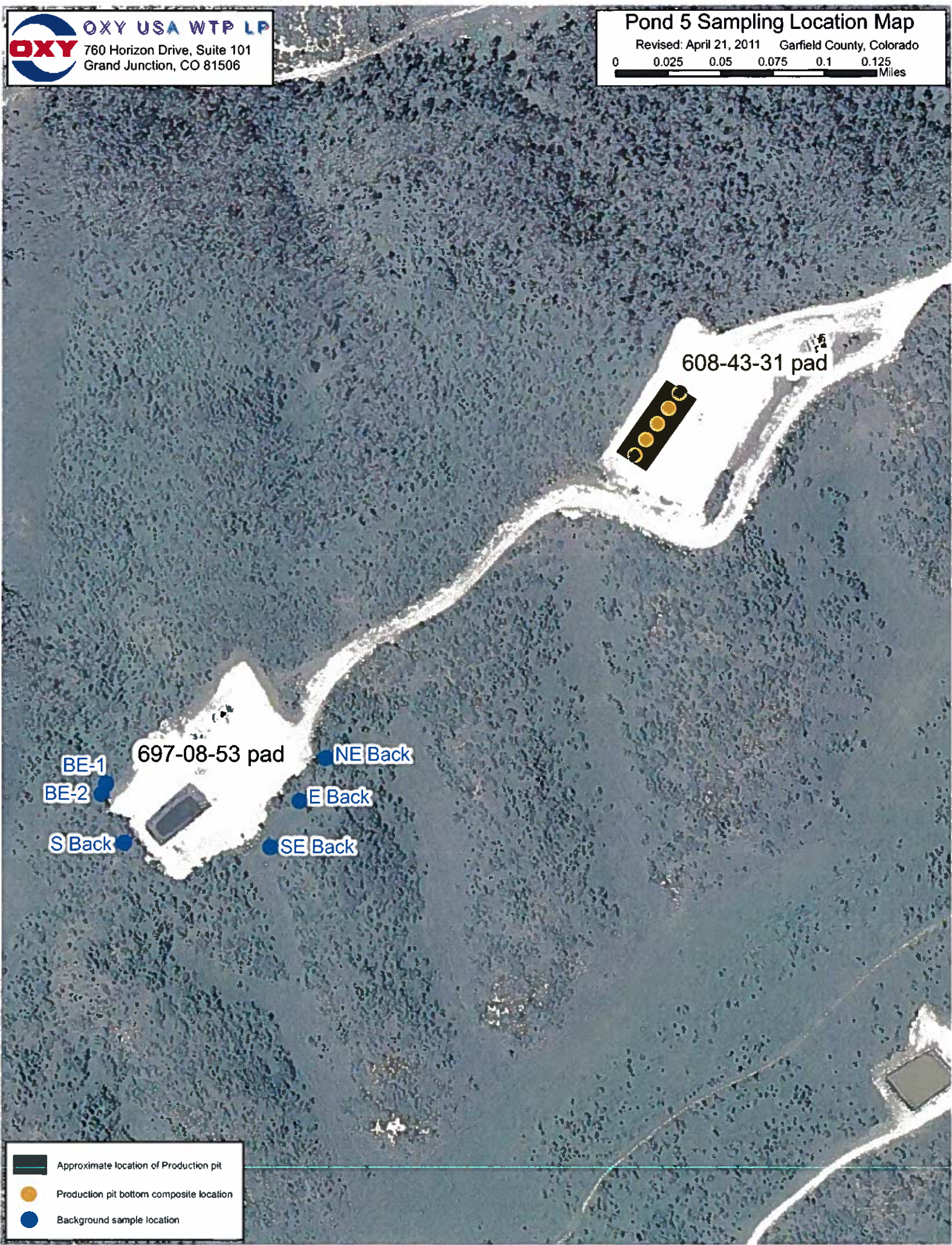
BDL = Below detection limit

** 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)

Pond 5 Sampling Location Map

Revised: April 21, 2011 Garfield County, Colorado



- Approximate location of Production pit
- Production pit bottom composite location
- Background sample location



ENVIRONMENTAL SCIENCE CORP.

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REPORT OF ANALYSIS

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

October 06, 2008

Date Received : September 20, 2008
Description : Pit Bottom Sampling
Sample ID : 608-43-31
Collected By : David Spencer
Collection Date : 09/17/08 07:50

ESC Sample # : L366196-01

Site ID :

Project # : 7830-060

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|----------|-----------|----------|------|
| pH | 8.1 | | su | 9045D | 09/23/08 | 1 |
| Sodium Adsorption Ratio | 13. | | | Calc. | 09/24/08 | 1 |
| Specific Conductance | 3700 | | umhos/cm | 9050AMod | 09/23/08 | 1 |
| Mercury | 0.061 | 0.020 | mg/kg | 7471 | 09/25/08 | 1 |
| Arsenic | 8.0 | 1.0 | mg/kg | 6010B | 09/29/08 | 1 |
| Beryllium | 0.60 | 0.10 | mg/kg | 6010B | 09/29/08 | 1 |
| Boron | 14. | 10. | mg/kg | 6010B | 09/29/08 | 1 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 09/29/08 | 1 |
| Chromium | 58. | 0.50 | mg/kg | 6010B | 09/29/08 | 1 |
| Copper | 14. | 1.0 | mg/kg | 6010B | 09/29/08 | 1 |
| Lead | 14. | 0.25 | mg/kg | 6010B | 09/29/08 | 1 |
| Molybdenum | 0.46 | 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 | 49. | 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) | 93.3 | | % Rec. | 8021/8015 | 09/25/08 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.0 | | % Rec. | 8021/8015 | 09/25/08 | 5 |
| TPH (GC/FID) High Fraction | 79. | 4.0 | mg/kg | 3546/DRO | 09/26/08 | 1 |
| Surrogate Recovery (50-150) | | | | | | |
| o-Terphenyl | 85.5 | | % 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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L366196-01 (PH) ~ 8.1@21.1c



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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,
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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

February 03, 2011

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

ESC Sample # : L499536-01

Date Received : January 29, 2011
Description : Pond 6 background Samples

Site ID :

Sample ID : BE-1 1155 10-12 FT

Project # :

Collected By : Travis Brophy
Collection Date : 01/27/11 11:55

| 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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L499536-01 (PH) - 8.3@18.3C



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REPORT OF ANALYSIS

February 03, 2011

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

ESC Sample # : L499536-01

Date Received : January 29, 2011
Description : Pond 6 background Samples

Site ID :

Sample ID : BE-1 1155 10-12 FT

Project # :

Collected By : Travis Brophy
Collection Date : 01/27/11 11:55

| 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 |

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L499536-01 (PH) - 8.3@18.3C



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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-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 |

U = ND (Not Detected)

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L499536-02 (PH) - 8.4@18.4C



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

February 03, 2011

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

ESC Sample # : L499536-02

Date Received : January 29, 2011
Description : Pond 6 background Samples

Site ID :

Sample ID : BE-2 1200 10-12 FT

Project # :

Collected By : Travis Brophy
Collection Date : 01/27/11 12:00

| 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

February 03, 2011

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

ESC Sample # : L499536-03

Date Received : January 29, 2011
Description : Pond 6 background Samples

Site ID :

Sample ID : S BACK 1150 2-6 IN

Project # :

Collected By : Travis Brophy
Collection Date : 01/27/11 11:50

| 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 |

U = ND (Not Detected)

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L499536-03 (PH) - 6.2@19.0C



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REPORT OF ANALYSIS

February 03, 2011

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

ESC Sample # : L499536-03

Date Received : January 29, 2011
 Description : Pond 6 background Samples

Site ID :

Sample ID : S BACK 1150 2-6 IN

Project # :

Collected By : Travis Brophy
 Collection Date : 01/27/11 11:50

| 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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 L499536-03 (PH) - 6.2@19.0C



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REPORT OF ANALYSIS

February 03, 2011

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

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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L499536-04 (PH) - 6.6@18.3C



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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. |
|------------------------|--------|--------|-------|--------|-----------|--------|----------|------|
| 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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L499536-04 (PH) - 6.6@18.3C



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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 : 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 |

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQI

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L499536-05 (PH) - 6.6@18.5C



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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 : 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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L499536-05 (PH) - 6.6@18.5C



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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 : 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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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 : 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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L499536-06 (PH) - 6.6@18.4C

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 |
| L499536-02 | WG519569 | SAMP | Mercury | R1559672 | JP1 |
| | WG519652 | SAMP | Boron | R1561471 | J |
| | WG519652 | SAMP | Selenium | R1561471 | O |
| | WG519636 | SAMP | Mercury | R1561770 | J |
| L499536-03 | WG519652 | SAMP | Boron | R1561471 | J |
| | WG519652 | SAMP | Cadmium | R1561471 | J |
| | WG519706 | SAMP | TPH (GC/FID) High Fraction | R1559811 | J |
| | WG519190 | SAMP | Chromium, Hexavalent | R1561829 | J |
| | WG519636 | SAMP | Mercury | R1561770 | J |
| L499536-04 | 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 |
| | WG519636 | SAMP | Mercury | R1561770 | J |
| L499536-05 | WG519652 | SAMP | Boron | R1561471 | J |
| | WG519652 | SAMP | Selenium | R1561471 | O |
| | WG519706 | SAMP | TPH (GC/FID) High Fraction | R1559811 | J |
| | WG519190 | SAMP | Chromium, Hexavalent | R1561829 | J |
| | WG519636 | SAMP | Mercury | R1561770 | J |
| L499536-06 | 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 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.