

State of Colorado
Oil and Gas Conservation Commission

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



DOCUMENT
#2221040

SUNDRY NOTICE

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

RECEIVED
11/12/2012

Re-submitted
11/12/2012

1. OGCC Operator Number: 66561	4. Contact Name: Daniel I. Padilla	Complete the Attachment Checklist OP OGCC
2. Name of Operator: OXY USA Inc.	Phone: 970.263.3637	
3. Address: 760 Horizon Drive, Suite 101 City: Grand Junction State: CO Zip: 81506	Fax: 970.263.3694	
5. API Number 05-077-09178	OGCC Facility ID Number 334394	Survey Plat
6. Well/Facility Name: Gunderson Federal	7. Well/Facility Number 18-5	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SWNW, Sec. 18, T9S, R9SW		Surface Equipmt Diagram
9. County: Mesa	10. Field Name: Brush Creek	Technical Info Page
11. Federal, Indian or State Lease Number: 6050945		Other Lab Data, Map

General Notice

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

Technical Engineering/Environmental Notice

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

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

Signed: Daniel I. Padilla Date: 11/14/11 Email: daniel_padilla@oxy.com
Print Name: Daniel I. Padilla Title: Regulatory Advisor

OGCC Approved: Alex Fischer Title: FOR Date: 02/12/2013
CONDITIONS OF APPROVAL, IF ANY:

Alex Fischer
Supervisor
Western Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 66571 API Number: 05-077-09178
2. Name of Operator: OXY USA Inc. OGCC Facility ID # 334394
3. Well/Facility Name: Gunderson Federal Well/Facility Number: 18-5
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNW, Sec. 18, T9S, R93W

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

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

OXY USA Inc. (Oxy) has completed reclamation of the above-mentioned reserve pit and requests to apply a different standard (see table on next page) to the COGCC Table 910-1 concentration levels for Arsenic (As). Based on post reclamation levels for As being below undisturbed background levels, Oxy's sundry requests to waive the COGCC Table 910-1 concentration for As. In this particular situation, the pit bottom cap, and the below pit liner (Post Reclaim 09/16/2010) concentration for As is above COGCC Table 910-1 standards, but is equal to undisturbed background levels (see sampling locations on included location map).

The sampling method Oxy employed was to take a representative random grab sample for each background sample location. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations, and Oxy's post reclamation concentrations (Post Reclaim 09/16/2010). Based on the background sample concentrations, Oxy's sundry notice requests to apply different standards to the COGCC Table 910-1 concentration levels.

To address elevated concentrations of pH and SAR, Oxy buried and capped the pit bottom below at least three feet of native material to ensure a sufficient agronomic zone. The reclaimed pit was contoured to be level with the pad grade to minimize stormwater runoff, during operational phase of the pad. Final pad reclamation will occur at the end of the life of the pad.

Based on review of data presented, it appears that no further action is necessary at this time at this site. Reclamation has not been completed yet. Please ensure that reclamation is completed as indicated in this Form 27, and according to the 1000 Series of the COGCC Rules and Regulations. Reclamation activities should be completed preferably in spring and at the most by end of September 2011.

Gunderson Federal 18-5 Reserve Pit (Location ID: 334543) Reclamation and Closure Sampling Narrative

This is an updated Gunderson Federal 18-5 reserve pit sampling narrative. This is being provided in support of Oxy's Gunderson Federal 18-5 Sundry Notice reserve pit closure documentation. The narrative details what closure, and background samples were taken, where they were taken and for what purpose.

Post Reclaim Sample 09/16/2010 (L479303)

- Oxy removed the pit liner and mixed the pit bottom with a back hoe. The post reclaim sample was a five point composite sample of the pit bottom, which was consistent with practices conducted at time of closure (2010). The post reclaim sample was taken along the length of the pit between 0-6 inches at the pit bottom, which was approximately 4 to 12' feet below the pad surface. The post reclaim sample is represented in the post reclaim tabulated data spreadsheet, in the first column and labeled as "Post Reclaim (09-16-10)" for Sample Identification on the attached post reclaim table. The post reclaim sample date was 09/16/2010 and the Sample ID from the data tabulation is Gunderson 18-5 PR. This composite sample is shown on the Gunderson Federal 18-5 Reserve Pit Post Reclaim Sampling map as red dots and is referenced in the legend as Post Reclamation Composite Sample. The lab data report for this sample is attached. The sample values can be found on lab report L479303 on pages 2 and 3 as sample ID Gunderson 18-5 PR.
- Post reclaim values showed elevated concentrations for sodium adsorption ratio (SAR), pH, and arsenic (As). Native background soil samples within the area showed elevated concentrations of naturally occurring As to be present within the area, reference Background Samples section below.

Cap Sample 10/01/2010 (L481948)

- Oxy backfilled the pit with stockpiled native clean material to pad grade (4-10 feet deep). A five point composite sample was taken of the cap material and analyzed only for the analyte exceedances found in the post reclaim sample, specifically pH and SAR, since the cap material will serve as a cap for the elevated value of pH and SAR found in the reclaimed pit bottom. The cap sample is represented in the tabulated data spreadsheet in the sixth column and labeled as Cap (10-01-10) for Sample Type on the attached post reclaim table. The cap sample date was 10/01/2010 and the Sample ID from the lab report is Gunderson 18-5 Cap 0-6 IN. This sample is shown on the Gunderson Federal 18-5 Sampling Locations Map as an orange dot and is referenced in the legend as Cap Sample. The lab data report for this sample is attached. The sample values can be found on lab report L481948 on page 2 as sample ID Gunderson 18-5 Cap 0-6 IN.
- The cap sample was tested for pH and SAR, since these were the analyte exceedances found in the post reclaim sample, other than As. All analytes were found to be below the COGCC's table 910-1 allowable concentrations.

Background Samples 09/16/2010 (L479303)

- In an effort to identify elevated concentrations of naturally occurring As similar to that which was previously identified in the Post Reclaim sample, Oxy collected background samples from native undisturbed locations around the area. Oxy collected four background grab samples (cardinal directions)

on 09/16/2010 from undisturbed locations around the pad at depths of 0-6 inches. The background samples were collected on 09/16/2010 and can be found in columns 2 through 5 of the tabulated data. The Sample Identification from the data tabulation is Background – N (09-16-10), Background – E (09-16-10), Background – S (09-16-10), and Background – W (09-16-10). These samples are shown on the Gunderson Federal 18-5 Sampling Locations Map as green dots and are referenced in the legend as Background sample locations. The sample values can be found on lab report L479303 on pages 4 through 7 as Sample ID's Gunderson 18-5 BG-N, Gunderson 18-5 BG-E, Gunderson 18-5 BG-S, and Gunderson 18-5 BG-W.

- The sampling effort yielded a background As concentration equal to that found in the Post Reclaim sample.

In conclusion, this pit has been closed and meets both the COGCC 900 series and 1000 series rules for pit closure. All analyte concentrations were found to be below COGCC table 910-1 allowable concentrations, below native background levels, or were mitigated using a cap to ensure a sufficient agronomic zone. Oxy will continue to monitor this site for stormwater compliance until final pad reclamation has occurred.

Pit Reclaims - Collbran

Pad #:	Gunderson 18-5
Sample Date:	9/16/2010
Clearance Achieved Date:	

	MCL (mg/kg)	Sample Identifications (mg/kg)						
		Post Reclaim (09-16-10)	Background - N (09-16-10)	Background - E (09-16-10)	Background - S (09-16-10)	Background - W (09-16-10)	Cap (10-01-10)	Soil Pile (10-01-10)
Organics in Soil								
TPH (GRO and DRO)	500	50.63	-	-	-	-	-	-
Benzene	0.17	0.0021	-	-	-	-	-	-
Toluene	85	0.0036	-	-	-	-	-	-
Ethylbenzene	100	0.0036	-	-	-	-	-	-
Xylenes	175	0.027	-	-	-	-	-	-
Organics in Soil (PAH's)								
Acenaphthene	1000	<0.011	-	-	-	-	-	-
Anthracene	1000	<0.0093	-	-	-	-	-	-
Benzo(A)anthracene	0.22	<0.0077	-	-	-	-	-	-
Benzo(B)fluoranthene	0.22	<0.0078	-	-	-	-	-	-
Benzo(K)fluoranthene	2.2	<0.012	-	-	-	-	-	-
Benzo(A)pyrene	0.022	<0.0074	-	-	-	-	-	-
Chrysene	22	<0.0091	-	-	-	-	-	-
Dibenzo(A,H)anthracene	0.022	<0.011	-	-	-	-	-	-
Fluoranthene	1000	0.0081	-	-	-	-	-	-
Flourene	1000	<0.0095	-	-	-	-	-	-
Indeno(1,2,3,C,D)pyrene	0.22	<0.011	-	-	-	-	-	-
Napthalene	23	0.22	-	-	-	-	-	-
Pyrene	1000	0.013	-	-	-	-	-	-
Inorganics in Soil								
EC	<4 mmhos/cm or 2X background	0.97	0.100	0.078	0.027	0.056	-	-
SAR	<12	18.0	0.60	0.73	0.53	0.55	7.40	3.80
pH	6-9	9.4	7.5	6.4	6.8	6.5	8.9	-
Metals in Soils								
Arsenic	0.39	4.4	3.5	4.4	2.0	2.1	-	-
Barium	15000	5600	-	-	-	-	-	-
Boron (Not Applicable)	2 (mg/L)	-	-	-	-	-	-	-
Cadmium	70	<0.040	-	-	-	-	-	-
Chromium	12000	22.0	-	-	-	-	-	-
Chromium VI	23	<0.31	-	-	-	-	-	-
Copper	3100	39.0	-	-	-	-	-	-
Lead	400	17.0	-	-	-	-	-	-
Mercury	23	0.025	-	-	-	-	-	-
Nickel	1600	16.0	-	-	-	-	-	-
Selenium	390	<1.6	-	-	-	-	-	-
Silver	390	<0.16	-	-	-	-	-	-
Zinc	23000	65.0	-	-	-	-	-	-



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

Gunderson Fed 18-5 Sampling Locations Map

Updated: Nov. 14, 2011 Mesa County, Colorado



Background Composite Sample

Cap Sample

Post Reclamation Composite Sample

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

Report Summary

Wednesday October 06, 2010

Report Number: L481948

Samples Received: 10/02/10

Client Project:

Description: Pit Reclaims - Collbran

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

Entire Report Reviewed By:


Craig Cothron , 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

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran

Sample ID : GUNDERSON 18-5 CAP 0-6 IN

Collected By : Brett Kennedy
Collection Date : 10/01/10 11:03

ESC Sample # : L481948-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.9		su	9045D	10/03/10	1
Sodium Adsorption Ratio	7.4			Calc.	10/05/10	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: 10/06/10 16:48 Printed: 10/06/10 16:49
L481948-01 (PH) - 8.9@18.0c



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

October 06, 2010

Date Received : October 02, 2010
Description : Pit Reclaims - Collbran
Sample ID : SOIL PILE 18-5 0-6 IN
Collected By : Brett Kennedy
Collection Date : 10/01/10 11:10

ESC Sample # : L481948-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sodium Adsorption Ratio	3.8			Calc.	10/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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

Report Summary

Friday September 24, 2010

Report Number: L479303

Samples Received: 09/17/10

Client Project:

Description: Pit Reclaims - Collbran

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

Entire Report Reviewed By:



Mark W. Beasley , ESC Representative

Laboratory Certification Numbers

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

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Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

REPORT OF ANALYSIS

September 24, 2010

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

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 DR
Collected By : Brett Kennedy
Collection Date : 09/16/10 12:55

ESC Sample # : L479303-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Chromium, Hexavalent	U	0.31	2.0	mg/kg		3060A/7	09/21/10	1
ORP	140			mV		2580	09/21/10	1
pH	9.4			su		9045D	09/23/10	1
Sodium Adsorption Ratio	18.					Calc.	09/21/10	1
Specific Conductance	970			umhos/cm		9050AMo	09/21/10	1
Mercury	0.025	0.0053	0.020	mg/kg		7471	09/18/10	1
Arsenic	4.4	0.32	1.0	mg/kg		6010B	09/19/10	1
Barium	5600	0.25	1.3	mg/kg		6010B	09/20/10	5
Cadmium	U	0.040	0.25	mg/kg		6010B	09/19/10	1
Chromium	22.	0.085	0.50	mg/kg		6010B	09/19/10	1
Copper	39.	0.21	1.0	mg/kg		6010B	09/19/10	1
Lead	17.	0.090	0.25	mg/kg		6010B	09/19/10	1
Nickel	16.	0.26	1.0	mg/kg		6010B	09/19/10	1
Selenium	U	1.6	5.0	mg/kg	O	6010B	09/20/10	5
Silver	U	0.16	0.50	mg/kg		6010B	09/20/10	1
Zinc	65.	0.34	1.5	mg/kg		6010B	09/19/10	1
Benzene	0.0021	0.00090	0.0025	mg/kg	J	8021/80	09/18/10	5
Toluene	0.0036	0.0015	0.025	mg/kg	J	8021/80	09/18/10	5
Ethylbenzene	0.0036	0.0013	0.0025	mg/kg		8021/80	09/18/10	5
Total Xylene	0.027	0.0028	0.0075	mg/kg		8021/80	09/18/10	5
TPH (GC/FID) Low Fraction	0.63	0.14	0.50	mg/kg		GRO	09/18/10	5
Surrogate Recovery-%								
a, a, a-Trifluorotoluene (FID)	98.1			% Rec.		8021/80	09/18/10	5
a, a, a-Trifluorotoluene (PID)	103.			% Rec.		8021/80	09/18/10	5
TPH (GC/FID) High Fraction	50.	0.77	4.0	mg/kg		3546/DR	09/20/10	1
Surrogate recovery(%)								
o-Terphenyl	51.3			% Rec.		3546/DR	09/20/10	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	09/19/10	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	09/19/10	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	09/19/10	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	09/19/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 09/24/10 14:42 Printed: 09/24/10 15:09

L479303-01 (PH) - 9.4@22.2c

L479303-01 (PH) - 12@20.3c

REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-01

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran

Site ID :

Sample ID : GUNDERSON 18-5 DR

Project # :

Collected By : Brett Kennedy
Collection Date : 09/16/10 12:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	09/19/10	1
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	09/19/10	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	09/19/10	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Fluoranthene	0.0081	0.0079	0.033	mg/kg	J	8270C	09/19/10	1
Fluorene	U	0.0095	0.033	mg/kg		8270C	09/19/10	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	09/19/10	1
Naphthalene	0.22	0.016	0.033	mg/kg		8270C	09/19/10	1
Phenanthrene	0.10	0.0073	0.033	mg/kg		8270C	09/19/10	1
Pyrene	0.013	0.0089	0.033	mg/kg	J	8270C	09/19/10	1
Surrogate Recovery								
Nitrobenzene-d5	107.			% Rec.		8270C	09/19/10	1
2-Fluorobiphenyl	83.2			% Rec.		8270C	09/19/10	1
p-Terphenyl-d14	69.3			% Rec.		8270C	09/19/10	1

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Reported: 09/24/10 14:42 Printed: 09/24/10 15:09

L479303-01 (PH) - 9.4@22.2c

L479303-01 (PH) - 12@20.3c



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

September 24, 2010

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

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-N
Collected By : Brett Kennedy
Collection Date : 09/16/10 13:43

ESC Sample # : L479303-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.5			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.60					Calc.	09/21/10	1
Specific Conductance	100			umhos/cm		9050AMo	09/21/10	1
Arsenic	3.5	0.32	1.0	mg/kg		6010B	09/19/10	1

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Reported: 09/24/10 14:42 Printed: 09/24/10 15:09

L479303-02 (PH) - 7.5@21.6c

L479303-02 (PH) - 13@20.1c



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

September 24, 2010

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

ESC Sample # : L479303-03

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran

Site ID :

Sample ID : GUNDERSON 18-5 BG-E

Project # :

Collected By : Brett Kennedy
Collection Date : 09/16/10 13:52

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.4			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.73					Calc.	09/21/10	1
Specific Conductance	7.8			umhos/cm		9050AMo	09/21/10	1
Arsenic	4.4	0.32	1.0	mg/kg		6010B	09/19/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L479303-03 (PH) - 13@19.9c

L479303-03 (PH) - 6.4@21.8c



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REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-04

Site ID :

Project # :

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-S
Collected By : Brett Kennedy
Collection Date : 09/16/10 13:59

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.8			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.53					Calc.	09/21/10	1
Specific Conductance	27.			umhos/cm		9050AMo	09/21/10	1
Arsenic	2.0	0.32	1.0	mg/kg		6010B	09/18/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L479303-04 (PH) - 12@20.3c

L479303-04 (PH) - 6.8@21.3c



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REPORT OF ANALYSIS

September 24, 2010

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

ESC Sample # : L479303-05

Site ID :

Project # :

Date Received : September 17, 2010
Description : Pit Reclaims - Collbran
Sample ID : GUNDERSON 18-5 BG-W
Collected By : Brett Kennedy
Collection Date : 09/16/10 14:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	6.5			su		9045D	09/23/10	1
Sodium Adsorption Ratio	0.55					Calc.	09/21/10	1
Specific Conductance	56.			umhos/cm		9050AMo	09/21/10	1
Arsenic	2.1	0.32	1.0	mg/kg		6010B	09/18/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L479303-05 (PH) - 6.5@21.3c

L479303-05 (PH) - 12@20.3c



**Fwd: Gunderson Federal 18-5 Reserve Pit Closure (Location ID: 334394),
Reference Document No: 2221040**

1 message

Lujan - DNR, Carlos <carlos.lujan@state.co.us>

Tue, Feb 12, 2013 at 12:05 PM

To: "EnviroScan, OGCC" <OGCC.EnviroScan@state.co.us>

Cc: Alex Fischer <alex.fischer@state.co.us>, Blair Rollins <Blair_Rollins@oxy.com>, Chris Clark
<Chris_Clark@oxy.com>, Daniel Padilla <Daniel_Padilla@oxy.com>

Amber,

Please enter/upload the attached Form 04 (Reserve pit closure), the first two pages of the "Gunderson Fed 18-5 additional reserve pit closure information" attached document and this email (all in one new document) and link to:

Location ID # 334394

API # 077 09178

Thanks,

Blair,

Thanks for sending the narrative that Linda requested. No Further Action is required at this time regarding the Gunderson Fed 18-5 reserve pit closure.

Based on review of data presented, it appears that no further action is necessary at this time at this site. However, should future conditions at the site be discovered of contaminant concentrations in soils exceeding COGCC standards or if groundwater is found to be significantly impacted, COGCC may require that further investigation and/or remediation be conducted.

Note:

Please moving forward, when you provide additional information or a report related to an ongoing Remediation Project, please include a Sundry Notice (Form 04) as cover page, so that it can be signed as a proof of approval and uploaded to the database. To expedite the closure of this project, I updated and used the old Form 04.

Thanks,

Carlos

----- Forwarded message -----

From: <Blair_Rollins@oxy.com>

Date: Mon, Nov 12, 2012 at 11:13 AM

Subject: Gunderson Federal 18-5 Reserve Pit Closure (Location ID: 334394), Reference Document No: 2221040

To: Alex.Fischer@state.co.us

Cc: Chris.Canfield@state.co.us, Carlos.Lujan@state.co.us, Chris_Clark@oxy.com, Daniel_Padilla@oxy.com

Dear Mr. Fischer,

As identified in the Oxy and COGCC (attended by Linda Spry O'Rourke) August 22, 2012 Legacy Pit Closure meeting, the COGCC would review Oxy's sundry notice documenting closure of the Gunderson Federal 18-5 reserve pit submitted on November 14, 2011, reference document #2221040. The COGCC reviewed sundry notice #2221040 and requested additional sampling details via an email sent on October 17, 2012. Oxy is

providing you the following reserve pit closure documentation for the above-referenced location as requested in the October 17, 2012 email.

The COGCC document #2221040 did not provide closure documentation guidance following review. Oxy is therefore following the closure procedures outlined in the August 22, 2012 meeting and providing you with this email to support the November 14, 2011 sundry notice (document #2221040). Included as part of the reserve pit closure documentation:

- Gunderson Federal 18-5 reserve pit sampling narrative
- Gunderson Federal 18-5 reserve pit tabulated data
- Supporting lab analytical data package reflecting the tabulated data
- Gunderson Federal 18-5 sampling map.

Please let Daniel or I know if sufficient information has been provided to close the reserve pit or if you require additional information.

Thank you,

Blair Rollins
Support Contractor for Oxy Regulatory Department
By: Walsh Environmental Scientists and Engineers, LLC
(970) 263-3688 - Office
(970) 985-1861 - Cell

--

Carlos A. Luján, Ph.D

Groundwater Hydrologist
Cell: (720) 272-2306

Colorado Oil & Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, CO
80203
(303) 894-2100 Ext. 5105
Carlos.lujan@state.co.us



Please consider the environment prior to printing this e-mail...

3 attachments

 **Gunderson Fed 18-5 additional reserve pit closure information.pdf**
828K

 **Gunderson Federal 18-5_Form 04.pdf**
821K



Gunderson Federal 18-5_Form 04_Signed CALS.pdf

97K