

State of Colorado Oil and Gas Conservation Commission

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



#8508

FOR OGCC USE ONLY

RECEIVED
7/1/2014

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.

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): Pit Closure

OGCC Operator Number: 95960

Name of Operator: Wexpro Company

Address: PO Box 458

City: Rock Springs State: WY Zip: 82902

Contact Name and Telephone:

Tammy Fredrickson

No: 307-352-7514

Fax: 307-352-7575

API Number: 05-081-07013

County: Moffat

Facility Name: Chapman State 2

Facility Number: 116635

Well Name: Chapman State

Well Number: 2

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SESW, 16, 11N, 97W Latitude: 40.907709 Longitude: -108.298956

TECHNICAL CONDITIONS

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

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

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Tresano-Hiatha-Kandalay

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 122' from natural drainage.

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

Impacted Media (check):



Soils



Vegetation



Groundwater



Surface Water

Extent of Impact:

Minimal

How Determined:

Soil Analysis

No spills or leaks from pit area

REMEDIATION WORKPLAN

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

Soil analysis taken to determine impact. Based on results, no additional testing will be completed unless requested.

Describe how source is to be removed:

Berm dirt will be knocked into the pit and compacted. Additional fill material, if needed, will be obtained from a commercial source.

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.:

Pit samples and offsite samples are comparable. No remediation is being proposed.



REMIEDIATION WORKPLAN (Cont.)

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

OGCC Employee: _____

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

N/A

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.

Pit will be backfilled and reseeded. Area will not be recontoured until final abandonment of the well.

Thickspike Wheatgrass 3 lbs PLS

Rosanna Western Wheatgrass 3 lbs PLS

Great Basin Wildrye 1.5 lbs PLS

Squirreltail .5lbs PLS

Indian Ricegrass 2 lbs PLS

Gardner Saltbush 3lbs PLS

Shadscale Saltbush 3lbs PLS

Globe Mallow/Blue Flax .5 lbs PLS

Rocky Mt. Beeplant .5 lbs PLS

Well pad is treated for noxious weeds annually as part of the Wexpro Weed Spraying Program.

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:

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

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: May 31, 2014 Date Site Investigation Completed: 6/2/14 Date Remediation Plan Submitted: 7/1/14
Remediation Start Date: Upon Approval Anticipated Completion Date: Fall 2014 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: Jimmy L. Druce

Signed:

Title: General Manager of Operations

Date: 6-29-2014

OGCC Approved: Kris Neidel

Title: EPS - Northwest Area

Date: 7/1/2014



Google earth

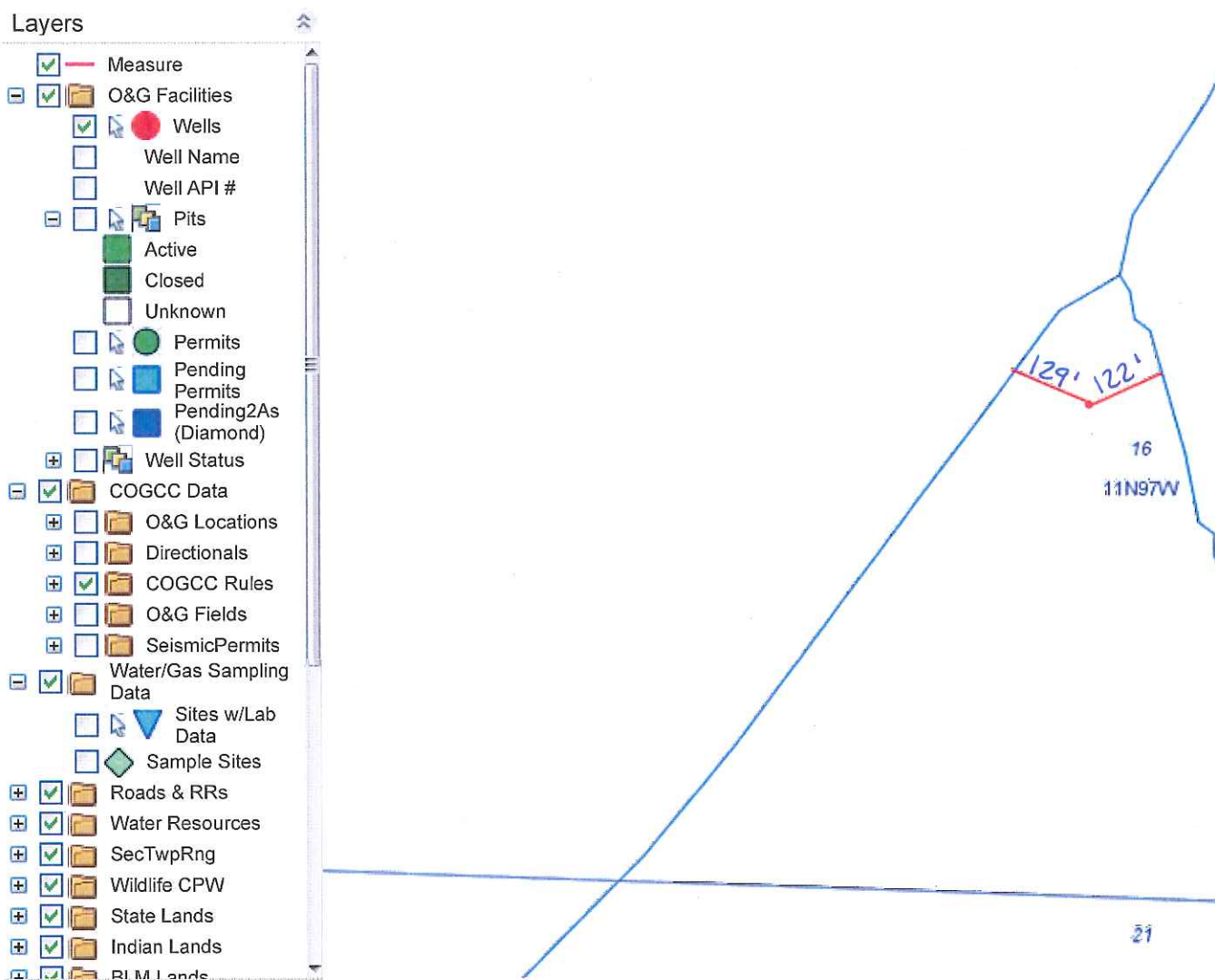
Image USDA Farm Service Agency
© 2014 Google

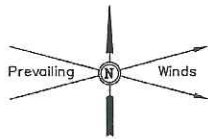
Google earth

feet
meters

200
70

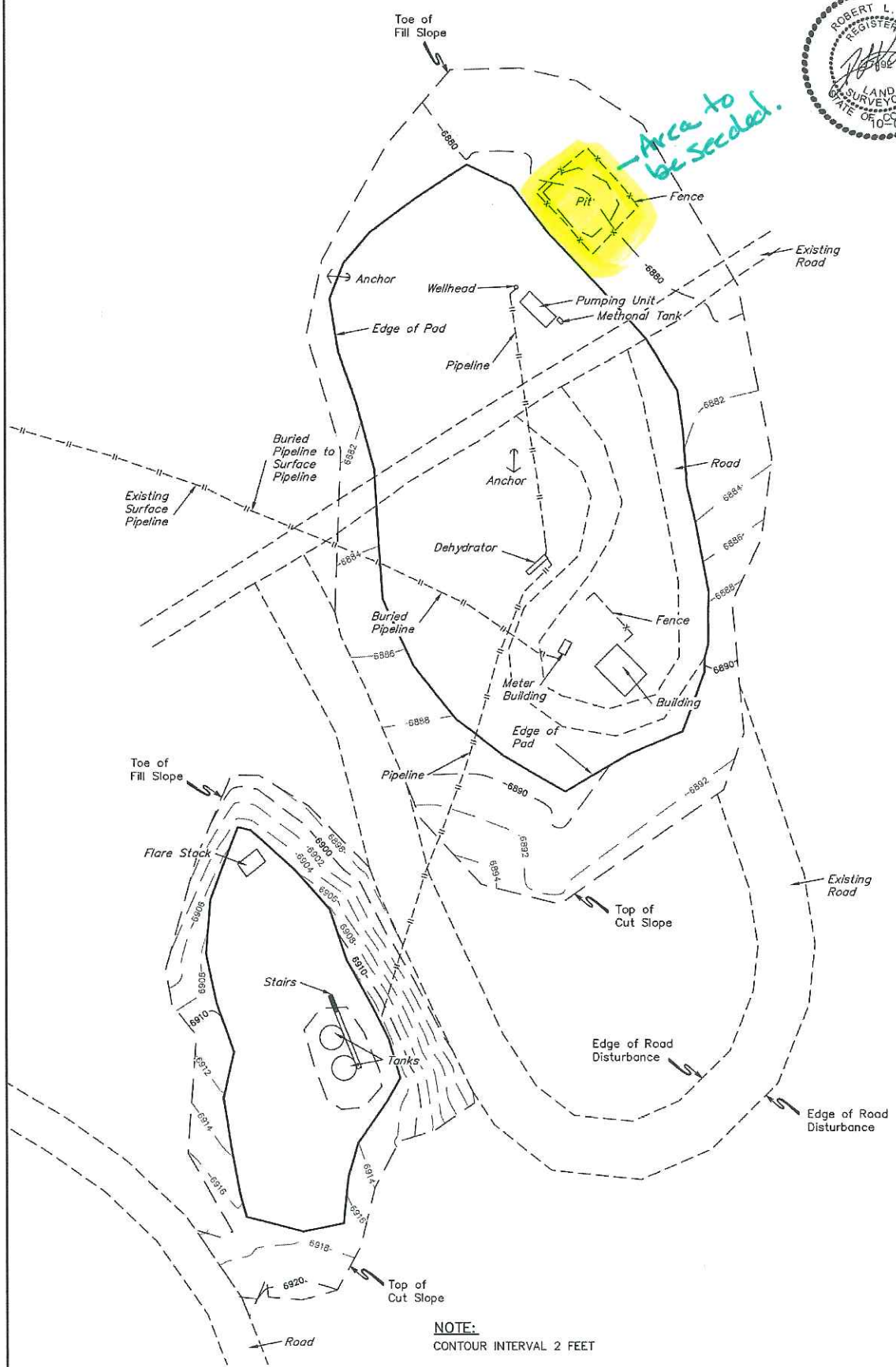






WEXPRO COMPANY
AS-BUILT SITE PLAN FOR
CHAPMAN STATE #2
SECTION 16, T11N, R97W, 6th P.M.
SE 1/4 SW 1/4

FIGURE #1
SCALE: 1" = 50'
DATE: 07-13-12
DRAWN BY: J.M.H.
REV: 10-09-12



NOTE:
CONTOUR INTERVAL 2 FEET

FINISHED GRADE ELEV. AT LOC. STAKE = 6881.8'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

Tammy Fredrickson

From: Maedgen Baucum
Sent: Saturday, May 31, 2014 10:05 AM
To: Tammy Fredrickson; Jon Lison
Cc: Ray Hollander
Subject: Chapman State #2

- 1- Offsite N40.90830 , W108.29861
- 2- Offsite N40.90828 , W108.29858
- 3- Offsite N40.90801 ,W108.29857

Sidewall – N40.90810 , W108.29859

Pit floor – N40.90812 , W108.29861

Tammy Fredrickson
Wexpro
PO Box 458
Rock Springs, WY 82901

Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: P1865

Sample ID: Chapman ST2 Pit Floor 5-30-14 1330

BTEX	Result, mg/kg	Reporting Limit, mg/kg	Method	Date Prepared	Date Analyzed
Benzene	ND	0.0019	8260B	06/04/14	06/10/14
Ethylbenzene	ND	0.0019	8260B	06/04/14	06/10/14
Toluene	ND	0.0019	8260B	06/04/14	06/10/14
Total xylenes	ND	0.0028	8260B	06/04/14	06/10/14

Gasoline Range Organics	ND	0.377	8260B	06/04/14	06/10/14
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PAH Compound	Result, mg/kg	Reporting Limit, mg/kg	Method	Date Prepared	Date Analyzed
Acenaphthene	ND	0.0669	8270C	06/05/14	06/06/14
Acenaphthylene	ND *	0.0669	8270C	06/05/14	06/06/14
Anthracene	ND	0.0669	8270C	06/05/14	06/06/14
Benzo(a)anthracene	ND	0.0669	8270C	06/05/14	06/06/14
Benzo(a)pyrene	ND *	0.0669	8270C	06/05/14	06/06/14
Benzo(b)fluoranthene	ND *	0.0669	8270C	06/05/14	06/06/14
Benzo(g,h,i)perylene	ND	0.0669	8270C	06/05/14	06/06/14
Benzo(k)fluoranthene	ND	0.0669	8270C	06/05/14	06/06/14
Chrysene	ND	0.0669	8270C	06/05/14	06/06/14
Dibenz(a,h)anthracene	ND *	0.0669	8270C	06/05/14	06/06/14
Fluoranthene	ND *	0.0669	8270C	06/05/14	06/06/14
Fluorene	ND *	0.0669	8270C	06/05/14	06/06/14
Indeno(1,2,3-cd)pyrene	ND *	0.0669	8270C	06/05/14	06/06/14
Naphthalene	ND	0.0669	8270C	06/05/14	06/06/14
Phenanthrene	ND	0.0669	8270C	06/05/14	06/06/14
Pyrene	ND	0.0669	8270C	06/05/14	06/06/14
1-Methylnaphthalene	ND	0.0669	8270C	06/05/14	06/06/14
2-Methylnaphthalene	ND	0.0669	8270C	06/05/14	06/06/14

ND: Not Detected

* LCS or LCSD exceeds the control limits.

BTEX/PAH/GRO Analyzed by TestAmerica Labs in Nashville TN.

TestAmerica Lab Number 490-54348-1

Certification: Wyoming (UST), A2LA, Cert. ID:453.07



WYOMING ANALYTICAL LABORATORIES, INC.

1660 Harrison St. Wallaramie@wal-lab.com
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Tammy Fredrickson
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PO Box 458
Rock Springs, WY 82901

Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: P1866

Sample ID: Chapman ST2 Pit Sidewall 5-30-14 1340

BTEX	Result, mg/kg	Reporting Limit, mg/kg	Method	Date Prepared	Date Analyzed
Benzene	ND	0.0019	8260B	06/04/14	06/10/14
Ethylbenzene	ND	0.0019	8260B	06/04/14	06/10/14
Toluene	ND	0.0019	8260B	06/04/14	06/10/14
Total xylenes	ND	0.0028	8260B	06/04/14	06/10/14

Gasoline Range Organics	ND	0.384	8260B	06/04/14	06/10/14
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PAH Compound	Result, mg/kg	Reporting Limit, mg/kg	Method	Date Prepared	Date Analyzed
Acenaphthene	ND	0.0667	8270C	06/05/14	06/06/14
Acenaphthylene	ND *	0.0667	8270C	06/05/14	06/06/14
Anthracene	ND	0.0667	8270C	06/05/14	06/06/14
Benzo(a)anthracene	ND	0.0667	8270C	06/05/14	06/06/14
Benzo(a)pyrene	ND *	0.0667	8270C	06/05/14	06/06/14
Benzo(b)fluoranthene	ND *	0.0667	8270C	06/05/14	06/06/14
Benzo(g,h,i)perylene	ND	0.0667	8270C	06/05/14	06/06/14
Benzo(k)fluoranthene	ND	0.0667	8270C	06/05/14	06/06/14
Chrysene	ND	0.0667	8270C	06/05/14	06/06/14
Dibenz(a,h)anthracene	ND *	0.0667	8270C	06/05/14	06/06/14
Fluoranthene	ND *	0.0667	8270C	06/05/14	06/06/14
Fluorene	ND *	0.0667	8270C	06/05/14	06/06/14
Indeno(1,2,3-cd)pyrene	ND *	0.0667	8270C	06/05/14	06/06/14
Naphthalene	ND	0.0667	8270C	06/05/14	06/06/14
Phenanthrene	ND	0.0667	8270C	06/05/14	06/06/14
Pyrene	ND	0.0667	8270C	06/05/14	06/06/14
1-Methylnaphthalene	ND	0.0667	8270C	06/05/14	06/06/14
2-Methylnaphthalene	ND	0.0667	8270C	06/05/14	06/06/14

ND: Not Detected

* LCS or LCSD exceeds the control limits.

BTEX/PAH/GRO Analyzed by TestAmerica Labs in Nashville TN.

TestAmerica Lab Number 490-54348-2

Certification: Wyoming (UST), A2LA, Cert. ID:453.07



WYOMING ANALYTICAL LABORATORIES, INC.

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Laramie, WY 82070

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Tammy Fredrickson
Wexpro
PO Box 458
Rock Springs, WY 82901

Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: P1865

Sample ID: Chapman ST2 Pit Floor 5-30-14 1330

	Result	Units	Method	Date Analyzed	Analyst
Nickel	23.9	mg/kg	EPA 3050/6020	6/9/2014	CB
Copper	30.9	mg/kg	EPA 3050/6020	6/9/2014	CB
Zinc	57.1	mg/kg	EPA 3050/6020	6/9/2014	CB
Arsenic	12.2	mg/kg	EPA 3050/6020	6/9/2014	CB
Selenium	< 0.3	mg/kg	EPA 3050/6020	6/9/2014	CB
Silver	0.68	mg/kg	EPA 3050/6020	6/9/2014	CB
Cadmium	0.40	mg/kg	EPA 3050/6020	6/9/2014	CB
Barium	727	mg/kg	EPA 3050/6020	6/9/2014	CB
Mercury	0.096	mg/kg	EPA 3050/6020	6/9/2014	CB
Lead	29.4	mg/kg	EPA 3050/6020	6/9/2014	CB
Total Chromium	31.1	mg/kg	EPA 3050/6020	6/9/2014	CB
Chromium (VI)	< 0.2	mg/kg	EPA 7196A	6/9/2014	CB
Chromium (III)	31.1	mg/kg	Calculated (ttl.Cr-CrVI)	6/9/2014	CB
Soluble, Boron	0.17	mg/kg	Hot water ext./6020	6/4/2014	CB
pH	7.62	std. units	USDA 60-2,3/150.1	6/4/2014	DA
Conductivity	624	umhos/cm	USDA 60-2,3/120.1	6/4/2014	DA
Calcium	80.0	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Magnesium	6.33	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium	21.2	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium Absorption Ratio	0.61	Ratio	Calculated	6/4/2014	CB
Diesel Range Organics	39.0	mg/kg	8015C	6/12/2014	KS

Monte Z. Ellis

End of Report
MLE/tab

Laboratory Manager



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Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: P1866

Sample ID: Chapman ST2 Pit Sidewall 5-30-14 1340

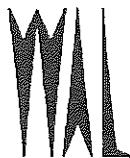
	Result	Units	Method	Date Analyzed	Analyst
Nickel	18.4*	mg/kg	EPA 3050/6020	6/9/2014	CB
Copper	22.7*	mg/kg	EPA 3050/6020	6/9/2014	CB
Zinc	45.2*	mg/kg	EPA 3050/6020	6/9/2014	CB
Arsenic	10.5*	mg/kg	EPA 3050/6020	6/9/2014	CB
Selenium	< 0.3*	mg/kg	EPA 3050/6020	6/9/2014	CB
Silver	0.285*	mg/kg	EPA 3050/6020	6/9/2014	CB
Cadmium	0.280*	mg/kg	EPA 3050/6020	6/9/2014	CB
Barium	704*	mg/kg	EPA 3050/6020	6/9/2014	CB
Mercury	0.047*	mg/kg	EPA 3050/6020	6/9/2014	CB
Lead	18.5*	mg/kg	EPA 3050/6020	6/9/2014	CB
Total Chromium	28.7*	mg/kg	EPA 3050/6020	6/9/2014	CB
Chromium (VI)	< 0.2*	mg/kg	EPA 7196A	6/9/2014	CB
Chromium (III)	28.7	mg/kg	Calculated (ttl.Cr-CrVI)	6/9/2014	CB
Soluble, Boron	0.18*	mg/kg	Hot water ext./6020	6/4/2014	CB
pH	7.82	std. units	USDA 60-2,3/150.1	6/4/2014	DA
Conductivity	598	umhos/cm	USDA 60-2,3/120.1	6/4/2014	DA
Calcium	46.1	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Magnesium	5.17	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium	41.5	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium Absorption Ratio	1.55	Ratio	Calculated	6/4/2014	CB
Diesel Range Organics	18.0	mg/kg	8015C	6/12/2014	KS

*Results are the average of 2 runs

End of Report
MLE/tab

Monte Z. Ellis

Laboratory Manager



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Tammy Fredrickson
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PO Box 458
Rock Springs, WY 82901

Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: P1867

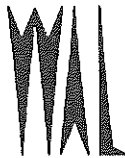
Sample ID: Chapman ST2 off-site 1 5-30-14 1330

	Result	Units	Method	Date Analyzed	Analyst
Arsenic	11.6	mg/kg	EPA 3050/6020	6/6/2014	CB
pH	7.46	std. units	USDA 60-2,3/150.1	6/4/2014	DA
Conductivity	588	umhos/cm	USDA 60-2,3/120.1	6/4/2014	DA
Calcium	55.4	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Magnesium	5.85	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium	40.6	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium Absorption Ratio	1.39	Ratio	Calculated	6/4/2014	CB

Lab Number: P1868

Sample ID: Chapman ST2 off-site 2 5-30-14 1330

	Result	Units	Method	Date Analyzed	Analyst
Arsenic	12.5	mg/kg	EPA 3050/6020	6/6/2014	CB
pH	7.88	std. units	USDA 60-2,3/150.1	6/4/2014	DA
Conductivity	788	umhos/cm	USDA 60-2,3/120.1	6/4/2014	DA
Calcium	29.9	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Magnesium	13.0	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium	55.7	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium Absorption Ratio	1.55	Ratio	Calculated	6/4/2014	CB



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Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

REPORT OF ANALYSIS

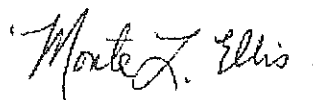
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Sample ID: Chapman ST2 off-site 3 5-30-14 1330

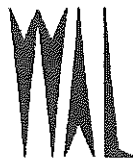
	Result	Units	Method	Date Analyzed	Analyst
Arsenic	9.68*	mg/kg	EPA 3050/6020	6/6/2014	CB
pH	7.78	std. units	USDA 60-2,3/150.1	6/4/2014	DA
Conductivity	750	umhos/cm	USDA 60-2,3/120.1	6/4/2014	DA
Calcium	22.2	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Magnesium	7.33	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium	31.0	mg/L	USDA 60-2,3/6010	6/4/2014	CB
Sodium Absorption Ratio	1.46	Ratio	Calculated	6/4/2014	CB

*Results are the average of 2 runs

End of Report
MLE/tab



Laboratory Manager



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Date: June 18, 2014
Request Number: 32881
Date Received: 6-2-14
Matrix: Soil

QUALITY CONTROL

	Lab Number	Result, mg/kg	Duplicate, mg/kg	RPD	RPD limit	LCS %	LCS Range %
P1866	P1866	0.18	0.18	0.0	50	102	65-125
Soluble, Boron	P1866	0.18	0.18	0.0	50	102	65-125

	LCS %	LCS Range %
Calcium	101	65-125
Magnesium	104	65-125
Sodium	96	65-125

	Standard	Expected	Value	% Recovery
Conductivity	QC ESI 500	500	496	99
pH	QC WAL 6.96	6.96	6.83	98

P1866	Result, mg/kg	Duplicate, mg/kg	RPD	RPD limit	Spike % Recovery	Spike Range
Nickel	16.7	20.0	18.0	50	88	75-125
Copper	22.4	23.0	2.64	50	91	75-125
Zinc	44.6	45.8	2.65	50	92	75-125
Arsenic	10.2	10.7	4.78	50	97	75-125
Selenium	< 0.3	< 0.3	0	50	93	75-125
Silver	0.270	0.300	10.5	50	94	75-125
Cadmium	0.28	0.28	0	50	93	75-125
Barium	692	715	3.27	50	No spike	75-125
Mercury	0.044	0.049	10.8	50	89	75-125
Lead	18.3	18.6	1.63	50	96	75-125
Total Chromium	28.6	28.7	0.35	50	95	75-125
Chromium VI	< 0.2	< 0.2	0	50	No spike	75-125

DRO ICV/CCV

% Recovery	Dup. % Recovery	RPD %	RPD Limit
83	100	18.6	50

RPD: Relative % difference.

LCS: Lab Control Sample.



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Date: June 18, 2014
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Date Received: 6-2-14
Matrix: Soil

QUALITY CONTROL

<u>Surrogate Recoveries</u>		
P1865 BTEX/GRO		
Compound	% Recovery	% Recovery Limits
1,2-Dichloroethane-d4	75	70-130
4-Bromofluorobenzene	132 *X	70-130
Toluene-d8	117	70-130
P1865 PAH		
Compound	% Recovery	% Recovery Limits
Nitrobenzene-d5	65	27-120
Terphenyl-d14	83	13-120
2-Fluorobiphenyl	75	29-120

<u>Surrogate Recoveries</u>		
P1866 BTEX/GRO		
Compound	% Recovery	% Recovery Limits
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	107	70-130
Toluene-d8	97	70-130
P1866 PAH		
Compound	% Recovery	% Recovery Limits
Nitrobenzene-d5	67	27-120
Terphenyl-d14	87	13-120
2-Fluorobiphenyl	75	29-120

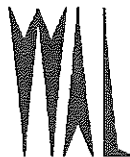
* LCS or LCSD exceeds the control limits.

X Surrogate is outside control limits.

End of QC Report
MLE/tab

Marte L. Ellis

Laboratory Manager



WYOMING ANALYTICAL LABORATORIES, INC.

1660 Harrison St.
Laramie, WY 82070

Wallaramie@wal-lab.com

(307) 742-7995
Fax: (307) 721-8956

Analytical Service Request & Chain of Custody Record for Environmental Samples page 1 of 2

Report to: Tammy Fredrickson		Please PRINT all information		Wyoming Analytical Laboratories, Inc 1660 Harrison St Laramie, WY 82070 307-742-7595 Fax 307-721-8956 wallar@wyal.com	
Company: WEXCO		Address: PO Box 458		City/ST Zip: Rock Springs WY 82802	
Phone: 307-352-7514		Fax: 307-352-7515		Email: Tammy.Fredrickson@Questar.com	
Prefer Results by: Fax / Email / Hard Copy (circle all that apply)		Matrix: W-water, S-soil, SL-sludge, O-oil, G-gaseous, X-other		*Preservation: T-4°C, A-acid, F-filtered, N-none, X-other	
TAT: Standard / Expedite days (subject to feasibility)		Project: Chapman ST 2		Post: GC-MS 8270	
Sample ID		Date/Time		Matrix*	
1 Pit Floor		5/30/14 1:30 PM		S	
2 Pit Sidewall		5/30/14 1:40 PM		S	
3				S	
4				S	
5				S	
6				S	
7				S	
8				S	
9				S	
10				S	
Received 1st		Relinquished 1st		Received 2nd	
Print Name: Maedeen Bacon		Print Name:		Print Name:	
Signature: Maedeen Bacon		Signature:		Signature:	
Date/Time: 5/30/14 4:00 PM		Date/Time:		Date/Time:	
Shipped Via: OTC		Shipped Via:		Shipped Via:	
Print Name: Hope McCoy		Print Name:		Print Name:	
Signature: Hope McCoy		Signature:		Signature:	
Date/Time: 5/30/14 16:00		Date/Time:		Date/Time:	
WAL use only: Record discrepancies in sample condition upon receipt on WAL Doc#228 - SCUR					
Special Instructions / Comments:		Organics		Inorganics	
KEEP COOL		SVOA, BNA, PAH (circle)		F, Cl, NO2, NO3, NO2+NO3, Br, PO4, SO4, NH3 (circle)	
Metals: soluble boron, total (RCRA, Ni, Cu, Zn), Cr ⁶ , calculate Cr ³		VOA, BTEX, GRO (circle)		Alkalinity, pH, cond, TDS, TSS, Turbidity (circle)	
Inorganics: (saturated paste) Ca, Mg, Na, SAR, pH, conductivity		BTEX, GRO, GRO Fuel ID (circle)		TOC, BOD, COD, H2S, Specific Gravity (circle)	
		TPH (circle)		As Rec'd, Total, Dissolved, TCLP, WyoLeach. (circle)	
		418.1, 1664, 8015, 8280		Group 1, Ba, RCRA, TRI, Cu, Pb, Hg (circle)	
				Notes / Lab No.	
				P1845	
				P1846	
				P1847	
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				P2000	

Analytical Service Request & Chain of Custody Record for Environmental Samples

page 2 of 3

Report to: <u>Tommy Fredrickson</u>		Company: <u>W&A</u>		Address: <u>PO Box 458</u>		City/State: <u>Rock Springs WY 82402</u>		Phone: <u>307-352-2514</u> Fax: <u>307-352-7575</u>		Email: <u>Tommy.Fredrickson@Questar.com</u>		Please PRINT all information Wyoming Analytical Laboratories, Inc 1650 Harrison St Laramie, WY 82070 307-742-7995 Fax 307-721-8956 wylab@adl.com walspgs@adl.com	
Matrix: <u>Water, S-sol, SL-sludge, O-oil, G-gaseous, X-other:</u> TAT: <u>Standard / Expedite</u> days (subject to feed availability) Project: <u>Chadmas ST 2</u>		Preservation: <u>T-4°C, A-acid</u> <u>F-filtered, N-none, X-other:</u>		Preferred Results by: <u>Fax / Email / Hard Copy</u> (circle all that apply)		# of containers Preservation** custody seals?		Organics SVOA, BNA, PAH (circle) by GC-MS 8270 VOA, BTEX, GRO (circle) by GC-MS 8200 BTEX, GRO, DRO, Fuel ID (circle) by GC 8015 TPH (circle) 418.1, 1664, 8015, 8280		Inorganics F, Cl, NO2, NO3, NO2+NO3, Br, PO4, SO4, NH3 (circle) Alkalinity, pH, cond, TDS, TSS, Turbidity (circle) TOC, BOD, COD, H2S, Specific Gravity (circle) As Rac'd, Total, Dissolved, TCLP, WyoLeach, (circle) Group1, Ba, RCRA, TRI, Cu, Pb, Hg (List Below) (circle)		Metals Notes / Lab No	
1	off site sample 1	5/30/14 1:30pm	S	1	1	1	1	1	1	1	1	1	1
2	off site sample 2	5/30/14 1:30pm	S	1	1	1	1	1	1	1	1	1	1
3	off site sample 3	5/30/14 1:30pm	S	1	1	1	1	1	1	1	1	1	1
4													
5													
6													
7													
8													
9													
10													
Relinquished 1st Print Name: <u>Maude B. Baker</u> Signature: <u>[Signature]</u> Date/Time: <u>5/30/14 4:10pm</u> Shipped VIA: <u>OTC</u>		Relinquished 2nd Print Name: _____ Signature: _____ Date/Time: _____ Shipped VIA: _____		Received 1st Print Name: <u>Hope McCoy</u> Signature: <u>[Signature]</u> Date/Time: <u>5/30/14 1600</u>		Received 2nd Print Name: _____ Signature: _____ Date/Time: _____		Special Instructions / Comments: KEEP COOL Inorganics: (saturated paste) EC, SAR, pH metals: arsenic		WAL use only: Record discrepancies in sample condition upon receipt on WAL Doc#228 - SCUR			

238

109 #
35881
p920f2

P1867
P1868
P1869

SAR, PH, EC, AS

SAMPLE CONDITION UPON RECEIPT

Wyoming Analytical Laboratories, Inc.

Request No 32887

Date Received 5/30/14

Time Received 16:00

page 1 of 2

This communication is intended to give the client an opportunity to review tracking information (sample identification, analytical parameters, anticipated turn-around-times, sample receipt conditions that may affect data quality, etc.). It is important that the client reviews this information immediately and contacts Wyoming Analytical Laboratories (WAL) with any noted problems (discrepancies, omissions, changes, etc.).

WAL will take this form as contractual acceptance if not notified within 1 business day of this communication.

Sample Receipt

1 Number of coolers/packages received: OTC

OTC indicates received over the counter, unpackaged.

2 Temperature of coolers/samples in Celcius: 22.8 | 23.8 | | | |

Acceptable is 0,1 to 6,

or ROI (received on ice) if received within 24 hours of sampling,

or RRT (received at room temp) if received on same business day of sampling,

or NA (not applicable) if temperature range is not required.

Note failures and document on reverse.

3 CoC / Project / PO Number (if applicable):

4 ASR* properly completed, legible?

If by label, copy/photo sample labels.

Yes

No

circle ASR type:

WAL CoC

Other CoC

Form/Letter

By Project

Label

Pre-Notif.

5 Number of containers agrees with ASR?

Yes

No

N/A

6 Samples received intact?

Yes

No

7 Custody seals intact?

Yes

No

N/A

Sample Verification

1 Container labels correspond with ASR?

Yes

No

N/A

2 If liquid, samples are visually homogenous?

Yes

No

N/A

3 Requested analysis understood / appropriate?

Yes

No

4 Samples collected in proper containers?

Yes

No

5 Bottles properly preserved?

Yes

No

N/A

If preserved at lab, note type, amount, date and time on reverse.

at lab

RRT

circle heterogenous type:

Particulate

Multi-phase

Emulsion

Discoloration

6 VOA vials have no headspace?

Yes

No

N/A

7 Analysis within holding time at receipt?

Yes

No

N/A

8 Rush dates checked and accepted?

Yes

No

N/A

Any items listed above with a response of "No" or do not meet specifications must be documented on reverse along with its resolution, and a copy must be faxed or emailed to the client contact.

Sample receipt faxed / emailed to client?

Yes

N/A

Sample Receipt, Verification, Login, Labeling & Distribution completed by:

* ASR: Analytical Service Request

[Signature]

SAMPLE CONDITION UPON RECEIPT

Wyoming Analytical Laboratories, Inc.

Request No 32881
Date Received 6-3-14
Time Received 1000
page 1 of 2

This communication is intended to give the client an opportunity to review tracking information (sample identification, analytical parameters, anticipated turn-around-times, sample receipt conditions that may affect data quality, etc.). It is important that the client reviews this information immediately and contacts Wyoming Analytical Laboratories (WAL) with any noted problems (discrepancies, omissions, changes, etc.).

WAL will take this form as contractual acceptance if not notified within 1 business day of this communication.

Sample Receipt

1 Number of coolers/packages received: 2

OTC indicates received over the counter, unpackaged.

2 Temperature of coolers/samples in Celcius: 6.0 5.5

Acceptable is 0.1 to 6,

or ROI (received on ice) if received within 24 hours of sampling,

or RRT (received at room temp) if received on same business day of sampling,

or NA (not applicable) if temperature range is not required.

Note failures and document on reverse.

3 CoC / Project / PO Number (if applicable):

4 ASR* properly completed, legible?

If by label, copy/photo sample labels.

☒ Yes

No

circle ASR type:

☒ WAL CoC

Other CoC

Form/Letter

By Project

Label

Pre-Notif.

5 Number of containers agrees with ASR?

☒ Yes

No

N/A

6 Samples received intact?

☒ Yes

No

7 Custody seals intact?

Yes

No

☒ N/A

Sample Verification

1 Container labels correspond with ASR?

☒ Yes

No

N/A

2 If liquid, samples are visually homogenous?

Yes

No

☒ N/A

3 Requested analysis understood / appropriate?

☒ Yes

No

4 Samples collected in proper containers?

☒ Yes

No

5 Bottles properly preserved?

Yes

No

☒ N/A

at lab

If preserved at lab, note type, amount, date and time on reverse.

6 VOA vials have no headspace?

Yes

No

☒ N/A

7 Analysis within holding time at receipt?

☒ Yes

No

N/A

8 Rush dates checked and accepted?

Yes

No

☒ N/A

circle heterogenous type:

Particulate

Multi-phase

Emulsion

Discoloration

Any items listed above with a response of "No" or do not meet specifications must be documented on reverse along with its resolution, and a copy must be faxed or emailed to the client contact.

Sample receipt faxed / emailed to client?

Yes

☒ N/A

Sample Receipt, Verification, Login, Labeling & Distribution completed by:

* ASR: Analytical Service Request

JGC