

State of Colorado
Oil and Gas Conservation Commission



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

PL ET DE ES
RECEIVED
7/15/2011

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.)

1. OGCC Operator Number: 10310	4. Contact Name: Harold Mayland	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Fram Operating LLC	Phone: 303.550.1098	
3. Address: 30 E Pikes Peak Ave. Ste. 287 City: Colorado Springs State: CO Zip: 80903	Fax: NA	
5. API Number 05-077-09459	OGCC Facility ID Number 311749	Survey Plat
6. Well/Facility Name: Kelly #23-2-B	7. Well/Facility Number Kelly #23-2-B	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NENW, Sec. 23, T2S, R2E, U		Surface Eqpm Diagram
9. County: Mesa	10. Field Name: Wildcat - #99999	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number: NA		Other

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bottomhole location Qtr/Sec, Twp, Rng, Mer: _____
Latitude _____ Distance to nearest property line _____ Distance to nearest bldg, public rd, utility or RR _____
Longitude _____ Distance to nearest lease line _____ Is location in a High Density Area (rule 603b)? Yes/No
Ground Elevation _____ Distance to nearest well same formation _____ Surface owner consultation date: _____

GPS DATA:
Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____

CHANGE SPACING UNIT
Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____

Remove from surface bond
Signed surface use agreement attached

CHANGE OF OPERATOR (prior to drilling):
Effective Date: _____
Plugging Bond: Blanket Individual

CHANGE WELL NAME NUMBER
From: _____
To: _____
Effective Date: _____

ABANDONED LOCATION:
Was location ever built? Yes No
Is site ready for inspection? Yes No
Date Ready for Inspection: _____

NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned: _____
Has Production Equipment been removed from site? Yes No
MIT required if shut in longer than two years. Date of last MIT _____

SPUD DATE: _____

REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately _____ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent Approximate Start Date: Upon COGCC Approval

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 checked="" type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input checked="" type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases

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

Signed: Date: 6/29/2011 Email: tdobransky@oaconsulting.com
Print Name: Tim Dobransky Title: Project Manager

COGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

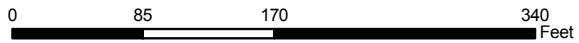
1. OGCC Operator Number: _____	API Number: _____
2. Name of Operator: _____	OGCC Facility ID # _____
3. Well/Facility Name: _____	Well/Facility Number: _____
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____	

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.

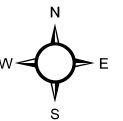
5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**



- Kelly_23-2-B
- ★ Kelly 23-2-B Pad
- Approximate Pad Perimeter



1 inch = 125 feet



PROJECT NO:	010-2099	KELLY 23-2-B PAD BACKGROUND SAMPLE LOCATION FRAM OPERATING LLC MESA COUNTY, COLORADO		FIGURE	
DRAWN BY:	Brian Swedhin			826 21-1/2 ROAD GRAND JUNCTION, CO 81505 TEL 970.263.7800	1
DATE:	6/29/2011				

Table 1
Kelly 23-2-B Cuttings Sample
Data Summary

SAMPLE SUMMARY	
Location Description	Kelly 23-2-B
Sample Type	Soil

LABORATORY DATA SUMMARY								
Sample ID	K23-2-B/CS1	K23-2-B/BG1	BG2-K	BG3-K	BG4-K	BG5-K	ALLOWABLE LIMITS	UNITS
Sample Date	9/21/2010	9/21/2010	1/17/2011	1/17/2011	1/17/2011	1/17/2011		
Analytical Parameters								
TPH								
TPH GRO	ND	NT	NT	NT	NT	NT	NA	mg/kg
TPH DRO	50.6	NT	NT	NT	NT	NT	NA	mg/kg
Total TPH	ND	NT	NT	NT	NT	NT	500	mg/kg
BTEX								
Benzene	0.0364	NT	NT	NT	NT	NT	0.17	mg/kg
Toluene	0.0372	NT	NT	NT	NT	NT	85	mg/kg
Ethylbenzene	0.00652	NT	NT	NT	NT	NT	100	mg/kg
m,p-Xylene	0.0126	NT	NT	NT	NT	NT	175	mg/kg
o-Xylene	0.0142	NT	NT	NT	NT	NT	175	mg/kg
Metals								
Chromium, Hexavalent	ND	ND	NT	NT	NT	NT	23	mg/kg
Mercury	0.0253	0.0091	NT	NT	NT	NT	23	mg/kg
Arsenic	6.75	3.98	9.0	7.4	7.6	7.0	0.39	mg/kg
Barium	153	175	NT	NT	NT	NT	15,000	mg/kg
Boron	10.7	11.1	NT	NT	NT	NT	NA	mg/kg
Cadmium	0.75	0.328	NT	NT	NT	NT	70	mg/kg
Chromium	21.2	12.5	NT	NT	NT	NT	120,000	mg/kg
Copper	24	11.7	NT	NT	NT	NT	3,100	mg/kg
Lead	11	11.4	NT	NT	NT	NT	400	mg/kg
Nickel	16.8	16.6	NT	NT	NT	NT	1,600	mg/kg
Selenium	2.55	1.14	NT	NT	NT	NT	390	mg/kg
Silver	ND	ND	NT	NT	NT	NT	390	mg/kg
Zinc	73.7	41.5	NT	NT	NT	NT	23,000	mg/kg
Polynuclear Aromatic Hydrocarbons								
Anthracene	ND	NT	NT	NT	NT	NT	1,000	mg/kg
Acenaphthene	ND	NT	NT	NT	NT	NT	1,000	mg/kg
Benzo(a)anthracene	ND	NT	NT	NT	NT	NT	0.22	mg/kg
Benzo(b)fluoranthene	ND	NT	NT	NT	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	ND	NT	NT	NT	NT	NT	2.2	mg/kg
Chrysene	ND	NT	NT	NT	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	ND	NT	NT	NT	NT	NT	0.022	mg/kg
Fluoranthene	ND	NT	NT	NT	NT	NT	1,000	mg/kg
Fluorene	ND	NT	NT	NT	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	ND	NT	NT	NT	NT	NT	0.22	mg/kg
Napthalene	0.286	NT	NT	NT	NT	NT	23	mg/kg
Pyrene	ND	NT	NT	NT	NT	NT	1,000	mg/kg
General Chemistry								
Percent moisture	16.3	1.46	NT	NT	NT	NT	NA	%
pH	9.04	8.58	NT	NT	NT	NT	6-9	su
Sodium Adsorption Ratio	4.04	0.116	NT	NT	NT	NT	<12	NA
Specific Conductance	11	0.249	NT	NT	NT	NT	4 or <2 x the background	mmhos/cm

mg/kg - milligrams per kilogram
 ND - parameter was not detected
 NT - parameter was not tested
 mmhos/cm - millimhos per centimeter
 su - standard units
 NA - not applicable

Over allowable limit but under BACKGROUND level.
 Over allowable limit and not within BACKGROUND level

10/3/2010

Olsson Associates

Tim Dobransky

826 21 1/2 Road

Grand Junction CO 81505

Project Name- Kelley/Fram

Project Number- 010-2099

Attached are your analytical results for Kelley/Fram received by Origins Laboratory, Inc. September 22, 2010 3:00 pm. This project is associated with Origins project number X009138-01 .

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Tim Dobransky
Project Number: 010-2099
Project: Kelley/Fram

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
K23-2-B/CS1	X009138-01	Soil	9/21/2010 3:00:00PM	09/22/2010 15:00
K23-2-B/BG1	X009138-02	Soil	9/21/2010 2:30:00PM	09/22/2010 15:00

Origins Laboratory, Inc.



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Noelle E Doyle.

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/CS1

9/21/2010 3:00:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X009138-01 (Soil)

BTEX by EPA 8260B

Benzene	0.0364	0.00200	0.00400	mg/kg	1	0123001	09/23/2010	09/23/2010	
Toluene	0.0372	0.00200	0.00400	"	"	"	"	"	
Ethylbenzene	0.00652	0.00200	0.00400	"	"	"	"	"	
m,p-Xylene	0.0126	0.00400	0.00800	"	"	"	"	"	
o-Xylene	0.0142	0.00200	0.00400	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %		77.6-134			"	"	"	
Surrogate: Toluene-d8	106 %		81.4-121			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		74.7-123			"	"	"	

Conductivity by E120.1

Conductivity	11000	1	2	US/CM	1	824637	09/24/2010	09/24/2010	
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GRO (TVPH)/DRO (TEPH)by EPA 8015M

Gasoline (C6-C10)	ND	25.0	50.0	mg/kg	1	0124005	09/24/2010	09/26/2010	
Diesel (C10-C28)	50.6	25.0	50.0	"	"	"	"	"	
TPH - Carbon Chain Total	ND	25.0	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	84.4 %		65-140			"	"	"	
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Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/CS1

9/21/2010 3:00:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X009138-01 (Soil)

Metals by SW6010B

Nickel	16.8	0.111	1.19	mg/kg	1	825378	09/29/2010	09/30/2010	
Zinc	73.7	1.79	3.58	"	"	"	"	"	
Silver	ND	0.848	2.39	"	"	"	"	"	
Selenium	2.55	0.741	3.58	"	"	"	"	"	
Boron	10.7	1.09	5.97	"	"	"	"	"	
Lead	11	0.562	1.19	"	"	"	"	"	
Copper	24	0.514	2.39	"	"	"	"	"	
Cadmium	0.75	0.203	0.597	"	"	"	"	"	
Barium	153	0.466	1.19	"	"	"	"	"	
Chromium	21.2	0.263	1.19	"	"	"	"	"	

Metals by SW6020

Arsenic	6.75	0.154	0.478	mg/kg	1	825511	09/30/2010	10/01/2010	
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Metals by SW7196

Chromium, Hexavalent	ND	0.03	2.39	mg/kg	5	824400	09/23/2010	09/23/2010	
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Metals by SW7471A

Mercury	0.0253	0.0045	0.0104	mg/kg	1	825005	09/27/2010	09/28/2010	
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Percent Moisture by AD2216A

Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/CS1

9/21/2010 3:00:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X009138-01 (Soil)

Percent Moisture by AD2216A

Percent Moisture	16.3	1	1	%	1	824520	09/23/2010	09/23/2010	
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pH by SW9045C

pH	9.04			SU	1	824655	09/24/2010	09/24/2010	
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Polyaromatic Hydrocarbons (PaHs) by SW8270C

Benzo(a)anthracene	ND	0.033	0.119	mg/kg	1	825387	09/24/2010	09/28/2010	
Naphthalene	0.286	0.025	0.119	"	"	"	"	"	
Acenaphthene	ND	0.026	0.119	"	"	"	"	"	
Anthracene	ND	0.042	0.119	"	"	"	"	"	
Indeno(1,2,3-c,d)Pyrene	ND	0.041	0.119	"	"	"	"	"	
Fluorene	ND	0.027	0.119	"	"	"	"	"	
Fluoranthene	ND	0.045	0.119	"	"	"	"	"	
Dibenz(a,h)Anthracene	ND	0.032	0.079	"	"	"	"	"	
Chrysene	ND	0.027	0.119	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.039	0.119	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.024	0.119	"	"	"	"	"	
Pyrene	ND	0.039	0.119	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl 60 % 64-104 " " "

Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/CS1

9/21/2010 3:00:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X009138-01 (Soil)

Polyaromatic Hydrocarbons (PaHs) by SW8270C

Surrogate: Terphenyl-D14	72 %		57-122			825387	09/24/2010	09/28/2010	
Surrogate: Nitrobenzene-d5	75 %		63-105			"	"	"	

Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	4.04				1	825595	10/01/2010	10/01/2010	
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 Noelle E Doyle.

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/BG1

9/21/2010 2:30:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X009138-02 (Soil)

Conductivity by E120.1

Conductivity	249	1	2	US/CM	1	824637	09/24/2010	09/24/2010	
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Metals by SW6010B

Lead	11.4	0.477	1.01	mg/kg	1	825378	09/29/2010	09/30/2010	
Silver	ND	0.721	2.03	"	"	"	"	"	
Zinc	41.5	1.52	3.04	"	"	"	"	"	
Selenium	1.14	0.629	3.04	"	"	"	"	"	I
Nickel	16.6	0.094	1.01	"	"	"	"	"	
Copper	11.7	0.436	2.03	"	"	"	"	"	
Chromium	12.5	0.223	1.01	"	"	"	"	"	
Cadmium	0.328	0.173	0.507	"	"	"	"	"	I
Barium	175	0.396	1.01	"	"	"	"	"	
Boron	11.1	0.923	5.07	"	"	"	"	"	

Metals by SW6020

Arsenic	3.98	0.131	0.406	mg/kg	1	825511	09/30/2010	10/01/2010	
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Metals by SW7196

Chromium, Hexavalent	ND	0.025	2.03	mg/kg	5	824672	09/24/2010	09/24/2010	
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Metals by SW7471A

Origins Laboratory, Inc.



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Noelle E Doyle,

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

K23-2-B/BG1

9/21/2010 2:30:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X009138-02 (Soil)

Metals by SW7471A

Mercury	0.0091	0.0039	0.0088	mg/kg	1	825005	09/27/2010	09/28/2010	J
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Percent Moisture by AD2216A

Percent Moisture	1.46	1	1	%	1	824520	09/23/2010	09/23/2010	
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pH by SW9045C

pH	8.58			SU	1	824655	09/24/2010	09/24/2010	
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Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	0.116				1	825595	10/01/2010	10/01/2010	
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Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

**Extractable Petroleum Hydrocarbons by 8015M - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0124005 - Default Prep GC-Semi

Blank (0124005-BLK1)

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
TPH - Carbon Chain Total	ND	50.0	"							

<i>Surrogate: o-Terphenyl</i>	42.5		g	50.0		85.1	65-140			
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Blank (0124005-BLK2)

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
TPH - Carbon Chain Total	ND	50.0	"							

<i>Surrogate: o-Terphenyl</i>	40.8		g	50.0		81.5	65-140			
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LCS (0124005-BS1)

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	91.2	50.0	mg/kg				65-140			
Diesel (C10-C28)	392	50.0	"	500		78.5	60-140			

<i>Surrogate: o-Terphenyl</i>	37.9		g	50.0		75.9	65-140			
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LCS (0124005-BS2)

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	101	50.0	mg/kg				65-140			
Diesel (C10-C28)	451	50.0	"	500		90.1	60-140			

<i>Surrogate: o-Terphenyl</i>	42.0		g	50.0		84.0	65-140			
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Matrix Spike (0124005-MS1)

Source: X009133-01

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	99.0	50.0	mg/kg		ND		65-130			
Diesel (C10-C28)	453	50.0	"	500	64.1	77.7	60-140			

<i>Surrogate: o-Terphenyl</i>	40.8		g	50.0		81.7	65-140			
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Matrix Spike (0124005-MS2)

Source: X009133-02

Prepared: 09/24/2010 Analyzed: 09/25/2010

Gasoline (C6-C10)	98.7	50.0	mg/kg		ND		65-130			
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Origins Laboratory, Inc.



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Noelle E Doyle.

Olsson Associates
 826 21 1/2 Road
 Grand Junction CO 81505

Tim Dobransky
 Project Number: 010-2099
 Project: Kelley/Fram

Extractable Petroleum Hydrocarbons by 8015M - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch OI24005 - Default Prep GC-Semi										
Matrix Spike (OI24005-MS2)		Source: X009133-02			Prepared: 09/24/2010 Analyzed: 09/25/2010					
Diesel (C10-C28)	456	50.0	mg/kg	500	52.6	80.6	60-140			
Surrogate: <i>o</i> -Terphenyl	41.7		g	50.0		83.4	65-140			
Matrix Spike Dup (OI24005-MSD1)		Source: X009133-01			Prepared: 09/24/2010 Analyzed: 09/25/2010					
Gasoline (C6-C10)	97.2	50.0	mg/kg		ND		65-130	1.89	20	
Diesel (C10-C28)	447	50.0	"	500	64.1	76.5	60-140	1.34	25	
Surrogate: <i>o</i> -Terphenyl	40.8		g	50.0		81.5	65-140			
Matrix Spike Dup (OI24005-MSD2)		Source: X009133-02			Prepared: 09/24/2010 Analyzed: 09/25/2010					
Gasoline (C6-C10)	99.8	50.0	mg/kg		ND		65-130	1.18	20	
Diesel (C10-C28)	463	50.0	"	500	52.6	82.1	60-140	1.55	25	
Surrogate: <i>o</i> -Terphenyl	43.1		g	50.0		86.2	65-140			

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 Project Number: 010-2099
 Project: Kelley/Fram

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0123001 - EPA 5030B

Blank (0123001-BLK1)

Prepared: 09/23/2010 Analyzed: 09/23/2010

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
o-Xylene	ND	0.004	"							

Surrogate: 1,2-Dichloroethane-d4	69.1		ug/L	62.5		111	77.6-134			
Surrogate: Toluene-d8	69.8		"	62.5		112	81.4-121			
Surrogate: 4-Bromofluorobenzene	65.0		"	62.5		104	74.7-123			

LCS (0123001-BSI)

Prepared: 09/23/2010 Analyzed: 09/23/2010

Benzene	0.17	0.004	mg/kg	0.200		86.4	75.2-128			
Toluene	0.19	0.004	"	0.200		96.1	76.3-130			
Surrogate: 1,2-Dichloroethane-d4	67.2		ug/L	62.5		108	77.6-134			
Surrogate: Toluene-d8	70.2		"	62.5		112	81.4-121			
Surrogate: 4-Bromofluorobenzene	57.8		"	62.5		92.5	74.7-123			

Matrix Spike (0123001-MS1)

Source: X009107-01

Prepared: 09/23/2010 Analyzed: 09/23/2010

Benzene	0.19	0.004	mg/kg	0.200	ND	95.0	77.6-132			
Toluene	0.21	0.004	"	0.200	ND	105	74-136			
Surrogate: 1,2-Dichloroethane-d4	69.4		ug/L	62.5		111	77.6-134			
Surrogate: Toluene-d8	69.6		"	62.5		111	81.4-121			
Surrogate: 4-Bromofluorobenzene	57.4		"	62.5		91.8	74.7-123			

Matrix Spike Dup (0123001-MSD1)

Source: X009107-01

Prepared: 09/23/2010 Analyzed: 09/23/2010

Benzene	0.19	0.004	mg/kg	0.200	ND	95.7	77.6-132	0.713	13.1	
Toluene	0.21	0.004	"	0.200	ND	106	74-136	0.723	20.9	
Surrogate: 1,2-Dichloroethane-d4	68.9		ug/L	62.5		110	77.6-134			
Surrogate: Toluene-d8	68.9		"	62.5		110	81.4-121			
Surrogate: 4-Bromofluorobenzene	56.7		"	62.5		90.8	74.7-123			

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 Project Number: 010-2099
 Project: Kelley/Fram

Conductivity by E120.1 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 824637 - NONE										
LCS (824637-1-BKS)		Source: 824637-1-BKS			Prepared: 09/24/2010 Analyzed: 09/24/2010					
Conductivity	1390	2	US/CM	1410	±1.00	99	80-120	0	20	
BLANK (824637-1-BLK)		Source: 824637-1-BLK			Prepared: 09/24/2010 Analyzed: 09/24/2010					
Conductivity	ND	2	US/CM	0.00			-	0	20	

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 Project Number: 010-2099
 Project: Kelley/Fram

Metals by SW6010B - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 825378 - SW3050B										
MS (390983-001 S) Source: 390983-001 S Prepared: 09/29/2010 Analyzed: 09/30/2010										
Zinc	210	3.49	mg/kg	116	84.7	108	75-125	0	20	
Boron	126	5.81	"	116	11.2	99	75-125	0	20	
Cadmium	111	0.581	"	116	↕0.581	96	75-125	0	20	
Chromium	143	1.16	"	116	26.2	101	75-125	0	20	
Copper	147	2.33	"	116	34.1	97	75-125	0	20	
Lead	122	1.16	"	116	17.2	90	75-125	0	20	
Nickel	141	1.16	"	116	30	96	75-125	0	20	
Silver	56.8	2.33	"	58.1	↕2.33	98	75-125	0	20	
Selenium	113	3.49	"	116	2.69	95	75-125	0	20	
Barium	464	1.16	"	116	322	122	75-125	0	20	
MSD (390983-001 SD) Source: 390983-001 SD Prepared: 09/29/2010 Analyzed: 09/30/2010										
Copper	151	2.33	mg/kg	116	34.1	101	75-125	3	20	
Barium	473	1.16	"	116	322	130	75-125	2	20	
Boron	129	5.81	"	116	11.2	102	75-125	2	20	
Chromium	146	1.16	"	116	26.2	103	75-125	2	20	
Lead	123	1.16	"	116	17.2	91	75-125	1	20	
Nickel	139	1.16	"	116	30	94	75-125	1	20	
Selenium	112	3.49	"	116	2.69	94	75-125	1	20	
Silver	55.7	2.33	"	58.1	↕2.33	96	75-125	2	20	
Zinc	200	3.49	"	116	84.7	99	75-125	5	20	
Cadmium	112	0.581	"	116	↕0.581	97	75-125	1	20	
LCS (574566-1-BKS) Source: 574566-1-BKS Prepared: 09/29/2010 Analyzed: 09/30/2010										
Chromium	98.5	1	mg/kg	100	↕0.220	99	75-125	0	20	
Copper	96.4	2	"	100	↕0.430	96	75-125	0	20	

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 Project Number: 010-2099
 Project: Kelley/Fram

Metals by SW6010B - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 825378 - SW3050B

LCS (574566-1-BKS)		Source: 574566-1-BKS			Prepared: 09/29/2010 Analyzed: 09/30/2010					
Boron	97.8	5	mg/kg	100	↕0.910	98	75-125	0	20	
Barium	98.9	1	"	100	↕0.390	99	75-125	0	20	
Cadmium	96.9	0.5	"	100	↕0.170	97	75-125	0	20	
Zinc	95.6	3	"	100	↕1.50	96	75-125	0	20	
Nickel	101	1	"	100	↕0.093	101	75-125	0	20	
Selenium	94.5	3	"	100	↕0.620	95	75-125	0	20	
Silver	48.2	2	"	50.0	↕0.710	96	75-125	0	20	
Lead	96.7	1	"	100	↕0.470	97	75-125	0	20	

BLANK (574566-1-BLK)		Source: 574566-1-BLK			Prepared: 09/29/2010 Analyzed: 09/30/2010					
Lead	ND	1	mg/kg	100			-	0	20	
Zinc	ND	3	"	100			-	0	20	
Silver	ND	2	"	50.0			-	0	20	
Nickel	ND	1	"	100			-	0	20	
Copper	ND	2	"	100			-	0	20	
Chromium	ND	1	"	100			-	0	20	
Cadmium	ND	0.5	"	100			-	0	20	
Boron	ND	5	"	100			-	0	20	
Barium	ND	1	"	100			-	0	20	
Selenium	ND	3	"	100			-	0	20	

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 Project Number: 010-2099
 Project: Kelley/Fram

Metals by SW6020 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 825511 - SW3050B										
MS (390981-001 S)										
		Source: 390981-001 S			Prepared: 09/30/2010 Analyzed: 10/01/2010					
Arsenic	18.2	0.403	mg/kg	20.2	2.28	79	75-125	0	30	
MSD (390981-001 SD)										
		Source: 390981-001 SD			Prepared: 09/30/2010 Analyzed: 10/01/2010					
Arsenic	16.5	0.403	mg/kg	20.2	2.28	70	75-125	10	30	
LCS (574689-1-BKS)										
		Source: 574689-1-BKS			Prepared: 09/30/2010 Analyzed: 10/01/2010					
Arsenic	16.7	0.4	mg/kg	20.0	←0.129	84	75-125	0	30	
BLANK (574689-1-BLK)										
		Source: 574689-1-BLK			Prepared: 09/30/2010 Analyzed: 10/01/2010					
Arsenic	ND	0.4	mg/kg	20.0			-	0	30	

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 Project: Kelley/Fram

Metals by SW7196 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 824672 - SW3060A										
MS (390951-001 S)										
		Source: 390951-001 S			Prepared: 09/24/2010 Analyzed: 09/24/2010					
Chromium, Hexavalent	0.321	0.512	mg/kg	0.320	0.512	100	80-120	0	20	I
LCS (824672-1-BKS)										
		Source: 824672-1-BKS			Prepared: 09/24/2010 Analyzed: 09/24/2010					
Chromium, Hexavalent	0.251	0.4	mg/kg	0.250	0.005	100	80-120	0	20	I
BLANK (824672-1-BLK)										
		Source: 824672-1-BLK			Prepared: 09/24/2010 Analyzed: 09/24/2010					
Chromium, Hexavalent	ND	0.4	mg/kg	0.250			-	0	20	

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 Project: Kelley/Fram

Metals by SW7471A - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 825005 - SW7471P										
MS (390990-002 S) Source: 390990-002 S Prepared: 09/27/2010 Analyzed: 09/28/2010										
Mercury	0.1915	0.0088	mg/kg	0.135	0.0091	135	75-125	0	20	J
MSD (390990-002 SD) Source: 390990-002 SD Prepared: 09/27/2010 Analyzed: 09/28/2010										
Mercury	0.182	0.0088	mg/kg	0.135	0.0091	128	75-125	5	20	J
LCS (574336-1-BKS) Source: 574336-1-BKS Prepared: 09/27/2010 Analyzed: 09/28/2010										
Mercury	0.1587	0.0087	mg/kg	0.133	←0.0038	119	75-125	0	20	
BLANK (574336-1-BLK) Source: 574336-1-BLK Prepared: 09/27/2010 Analyzed: 09/28/2010										
Mercury	ND	0.0087	mg/kg	0.133			-	0	20	

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Project Number: 010-2099
Project: Kelley/Fram

**Percent Moisture by AD2216A - Quality Control
XENCO**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 824520 - NONE

BLANK (824520-1-BLK)

Source: 824520-1-BLK

Prepared: 09/23/2010 Analyzed: 09/23/2010

Percent Moisture	ND	1	%	0.00			-	0	20	
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 Project Number: 010-2099
 Project: Kelley/Fram

Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 825387 - SW3550

MS (390981-001 S)		Source: 390981-001 S			Prepared: 09/24/2010 Analyzed: 09/28/2010					
Benzo(b)fluoranthene	1.11	0.101	mg/kg	1.68	↕0.100	66	61-108	0	20	
Acenaphthene	1.2	0.101	"	1.68	↕0.100	71	48-119	0	20	
Benzo(a)anthracene	1.28	0.101	"	1.68	↕0.100	76	51-119	0	20	
Pyrene	1.24	0.101	"	1.68	↕0.100	74	49-125	0	20	
Benzo(k)fluoranthene	0.902	0.101	"	1.68	↕0.100	54	60-112	0	20	
Chrysene	1.33	0.101	"	1.68	0.047	76	61-106	0	20	
Dibenz(a,h)Anthracene	1.13	0.067	"	1.68	↕0.066	67	47-120	0	20	
Fluoranthene	1.32	0.101	"	1.68	↕0.100	79	59-106	0	20	
Fluorene	1.29	0.101	"	1.68	↕0.100	77	54-115	0	20	
Indeno(1,2,3-c,d)Pyrene	1.11	0.101	"	1.68	↕0.100	66	70-130	0	30	
Naphthalene	1.24	0.101	"	1.68	0.029	72	50-105	0	20	
Anthracene	1.24	0.101	"	1.68	↕0.100	74	59-104	0	20	
Surrogate: Terphenyl-D14	1.16		PERCENT	1.67		69	57-122			
Surrogate: 2-Fluorobiphenyl	1.17		"	1.67		70	64-104			
Surrogate: Nitrobenzene-d5	1.24		"	1.67		74	63-105			

MSD (390981-001 SD)		Source: 390981-001 SD			Prepared: 09/24/2010 Analyzed: 09/28/2010					
Indeno(1,2,3-c,d)Pyrene	1.34	0.101	mg/kg	1.68	↕0.100	80	70-130	19	30	
Pyrene	1.24	0.101	"	1.68	↕0.100	74	49-125	0	20	
Naphthalene	1.25	0.101	"	1.68	0.029	73	50-105	1	20	
Fluorene	1.39	0.101	"	1.68	↕0.100	83	54-115	7	20	
Fluoranthene	1.39	0.101	"	1.68	↕0.100	83	59-106	5	20	
Dibenz(a,h)Anthracene	1.36	0.066	"	1.68	↕0.066	81	47-120	18	20	
Chrysene	1.38	0.101	"	1.68	0.047	79	61-106	4	20	
Benzo(k)fluoranthene	0.981	0.101	"	1.68	↕0.100	58	60-112	8	20	
Benzo(b)fluoranthene	1.09	0.101	"	1.68	↕0.100	65	61-108	2	20	
Benzo(a)anthracene	1.33	0.101	"	1.68	↕0.100	79	51-119	4	20	

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 Project Number: 010-2099
 Project: Kelley/Fram

Polyaromatic Hydrocarbons (PAHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 825387 - SW3550

MSD (390981-001 SD)		Source: 390981-001 SD		Prepared: 09/24/2010 Analyzed: 09/28/2010						
Anthracene	1.3	0.101	mg/kg	1.68	±0.100	77	59-104	5	20	
Acenaphthene	1.32	0.101	"	1.68	±0.100	79	48-119	10	20	
Surrogate: Terphenyl-D14	1.16		PERCENT	1.66		70	57-122			
Surrogate: 2-Fluorobiphenyl	1.35		"	1.66		81	64-104			
Surrogate: Nitrobenzene-d5	1.28		"	1.66		77	63-105			

LCS (574197-1-BKS)		Source: 574197-1-BKS		Prepared: 09/24/2010 Analyzed: 09/28/2010						
Dibenz(a,h)Anthracene	1.45	0.066	mg/kg	1.66	±0.027	87	47-120	0	20	
Pyrene	1.31	0.1	"	1.66	±0.033	79	49-125	0	20	
Naphthalene	1.28	0.1	"	1.66	±0.021	77	50-105	0	20	
Indeno(1,2,3-c,d)Pyrene	1.44	0.1	"	1.66	±0.034	87	70-130	0	30	
Fluoranthene	1.26	0.1	"	1.66	±0.038	76	59-106	0	20	
Benzo(k)fluoranthene	0.965	0.1	"	1.66	±0.033	58	60-112	0	20	
Benzo(b)fluoranthene	1.36	0.1	"	1.66	±0.020	82	61-108	0	20	
Benzo(a)anthracene	1.35	0.1	"	1.66	±0.028	81	51-119	0	20	
Anthracene	1.44	0.1	"	1.66	±0.035	87	59-104	0	20	
Acenaphthene	1.4	0.1	"	1.66	±0.022	84	48-119	0	20	
Chrysene	1.51	0.1	"	1.66	±0.023	91	61-106	0	20	
Fluorene	1.41	0.1	"	1.66	±0.023	85	54-115	0	20	
Surrogate: Terphenyl-D14	1.32		PERCENT	1.66		80	57-122			
Surrogate: Nitrobenzene-d5	1.29		"	1.66		78	63-105			
Surrogate: 2-Fluorobiphenyl	1.45		"	1.66		87	64-104			

BLANK (574197-1-BLK)		Source: 574197-1-BLK		Prepared: 09/24/2010 Analyzed: 09/28/2010						
Benzo(a)anthracene	ND	0.1	mg/kg	1.67	-	0	20			
Pyrene	ND	0.1	"	1.67	-	0	20			
Naphthalene	ND	0.1	"	1.67	-	0	20			
Indeno(1,2,3-c,d)Pyrene	ND	0.1	"	1.67	-	0	30			

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 Project Number: 010-2099
 Project: Kelley/Fram

Polyaromatic Hydrocarbons (PaHs) by SW8270C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 825387 - SW3550										
BLANK (574197-1-BLK)										
			Source: 574197-1-BLK		Prepared: 09/24/2010 Analyzed: 09/28/2010					
Fluorene	ND	0.1	mg/kg	1.67			-	0	20	
Fluoranthene	ND	0.1	"	1.67			-	0	20	
Dibenz(a,h)Anthracene	ND	0.066	"	1.67			-	0	20	
Chrysene	ND	0.1	"	1.67			-	0	20	
Benzo(b)fluoranthene	ND	0.1	"	1.67			-	0	20	
Anthracene	ND	0.1	"	1.67			-	0	20	
Acenaphthene	ND	0.1	"	1.67			-	0	20	
Benzo(k)fluoranthene	ND	0.1	"	1.67			-	0	20	
<i>Surrogate: Terphenyl-D14</i>	<i>1.29</i>		<i>PERCENT</i>	<i>1.67</i>		<i>77</i>			<i>57-122</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.36</i>		<i>"</i>	<i>1.67</i>		<i>81</i>			<i>63-105</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.34</i>		<i>"</i>	<i>1.67</i>		<i>80</i>			<i>64-104</i>	

Origins Laboratory, Inc.



Noelle E Doyle,

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
826 21 1/2 Road
Grand Junction CO 81505

Tim Dobransky
Project Number: 010-2099
Project: Kelley/Fram

Notes and Definitions

- J Matrix Spike failed outside method recovery limits. LCS/MSD passed
- I Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.



Noelle E Doyle.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Technical Report for

Olsson Associates

Kelly 23-2B Cuttings Sampling

Project 010-2099_100_100001

Accutest Job Number: D20462

Sampling Date: 01/17/11

Report to:

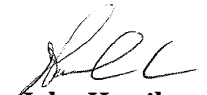
**Olsson Associates
826 21 1/2 Road
Grand Junction, CO 81505
tdobransky@oaconsulting.com**

ATTN: Tim Dobransky

Total number of pages in report: 17



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "John Hamilton".

**John Hamilton
Laboratory Director**

Client Service contact: Amanda Kissell 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Olsson Associates

Job No: D20462

Kelly 23-2B Cuttings Sampling
 Project No: Project 010-2099_100_100001

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D20462-1	01/17/11	10:15 JS	01/18/11	SO	Soil	BG2-K
D20462-2	01/17/11	10:25 JS	01/18/11	SO	Soil	BG3-K
D20462-3	01/17/11	10:35 JS	01/18/11	SO	Soil	BG4-K
D20462-4	01/17/11	10:45 JS	01/18/11	SO	Soil	BG5-K

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Olsson Associates

Job No D20462

Site: Kelly 23-2B Cuttings Sampling

Report Dat 1/26/2011 8:59:02 AM

On 01/18/2011, four (4) samples, 0 Trip Blanks, and 0 Field Blanks were received at Accutest Mountain States (AMS) at a temperature of 2.8°C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D20462 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6020

Matrix SO	Batch ID: MP3862
------------------	-------------------------

- All samples were digested and analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D20530-2MS, D20530-2MSD, and D20530-2SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD for Arsenic are outside control limits for sample MP3862-SD1. The percent difference is acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN7922
------------------	-------------------------

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BG2-K	Date Sampled: 01/17/11
Lab Sample ID: D20462-1	Date Received: 01/18/11
Matrix: SO - Soil	Percent Solids: 83.1
Project: Kelly 23-2B Cuttings Sampling	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	9.0	0.39	mg/kg	5	01/21/11	01/24/11 GJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1269

(2) Prep QC Batch: MP3862

RL = Reporting Limit

Report of Analysis

Client Sample ID: BG3-K	Date Sampled: 01/17/11
Lab Sample ID: D20462-2	Date Received: 01/18/11
Matrix: SO - Soil	Percent Solids: 87.5
Project: Kelly 23-2B Cuttings Sampling	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.4	0.36	mg/kg	5	01/21/11	01/24/11 GJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1269

(2) Prep QC Batch: MP3862

RL = Reporting Limit

Report of Analysis

Client Sample ID: BG4-K	Date Sampled: 01/17/11
Lab Sample ID: D20462-3	Date Received: 01/18/11
Matrix: SO - Soil	Percent Solids: 86.5
Project: Kelly 23-2B Cuttings Sampling	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.6	0.38	mg/kg	5	01/21/11	01/24/11 GJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1269

(2) Prep QC Batch: MP3862

RL = Reporting Limit

Report of Analysis

Client Sample ID: BG5-K	Date Sampled: 01/17/11
Lab Sample ID: D20462-4	Date Received: 01/18/11
Matrix: SO - Soil	Percent Solids: 86.4
Project: Kelly 23-2B Cuttings Sampling	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.0	0.37	mg/kg	5	01/21/11	01/24/11 GJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1269

(2) Prep QC Batch: MP3862

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, Colorado 80033
TEL: 303-425-6021; 877-737-4521 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #
Accutest Quote #
Bottle Order Control #
Accutest Job # **D20462**

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes		
Company Name Oleson Associates		Project Name: Kelly 03-2B Cuttings Sampling														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		
Street Address 826 21 1/2 Road		Street		Billing Information (if different from Report to)														
City State Zip Grand Jct. CO 81505		City State		Company Name														
Project Contact Tim Dobransky		Project # 010-2099-100-10000		Street Address														
Phone # 970-203-7800		Client Purchase Order #		City State Zip														
Sampler(s) Name(s) Jessica Sumner		Project Manager Tim Dobransky		Attention:														
Accutest Sample #	Field ID / Point of Collection	MECH/ID Vial #	Collection			Matrix	# of bottles	Number of preserved Bottles								LAB USE ONLY		
			Date	Time	Sampled by			HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	None	DI Water	MICR	ENCORE			
	BG2-K		1/17/11	1015	JS	50	1											
	BG3-K		1/17/11	1025	JS	50	1											
	BG4-K		1/17/11	1035	JS	50	1											
	BG5-K		1/17/11	1045	JS	50	1											
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:				Data Deliverable Information				Comments / Special Instructions								
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> UST Analysis 3-5 Days <input type="checkbox"/> 6 - 9 Day RUSH <input type="checkbox"/> 3 - 5 Day RUSH <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY						<input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Level 1 = Results Only Level 2 = Results + QC Summary + Case Narrative Level 3 = Results + QC Summary + Partial Raw data Level 4 = Full Deliverable				<input type="checkbox"/> PDF <input type="checkbox"/> EDD Format <input type="checkbox"/> Other								
Emergency & Rush T/A data available VIA LabLink																		
Sample Custody must be documented below each time samples change possession, including courier delivery.																		
Relinquished by Supplier: Jessica Sumner		Date Time: 1/17/11 1530		Received By: 1 [Signature]		Date Time: 1/17/11 1530		Relinquished By: 2 [Signature]		Date Time: 1/17/11 1530		Received By: 3 [Signature]		Date Time: 1/17/11 1530				
Relinquished by Sampler:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:				
3				4				5				6						
Relinquished by:		Date Time:		Received By:		Date Time:		Relinquished By:		Date Time:		Received By:		Date Time:				
5				6				7				8						
				Custody Seal #		<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		<input type="checkbox"/> On Ice <input checked="" type="checkbox"/> N/A		Cooler Temp. 28						

4.1
4

Fedex

D20462: Chain of Custody

Page 1 of 1

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D20462
Account: CORCCOGJ - Olsson Associates
Project: Kelly 23-2B Cuttings Sampling

QC Batch ID: MP3862
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 01/21/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.14	1.2		
Antimony	0.20	.001	.0095		
Arsenic	0.40	.049	.22	0.058	<0.40
Barium	1.0	.0035	.1		
Beryllium	0.10	.0075	.014		
Boron	20	.97	1		
Cadmium	0.050	.023	.048		
Calcium	200	1.8	8.2		
Chromium	1.0	.021	.24		
Cobalt	0.10	.0033	.003		
Copper	1.0	.011	.063		
Iron	20	.81	3.7		
Lead	0.25	.0012	.015		
Magnesium	50	.067	2.6		
Manganese	0.50	.007	.029		
Molybdenum	0.50	.0044	.023		
Nickel	1.0	.0029	.031		
Phosphorus	30	1.8	3.5		
Potassium	100	2	3.2		
Selenium	0.20	.075	.19		
Silver	0.050	.0008	.002		
Sodium	250	.8	4.4		
Strontium	10	.004	.04		
Thallium	0.10	.015	.02		
Tin	5.0	.006	.028		
Titanium	1.0	.035	.062		
Uranium	0.25	.00038	.0009		
Vanadium	2.0	.052	.29		
Zinc	5.0	.039	.12		

Associated samples MP3862: D20462-1, D20462-2, D20462-3, D20462-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D20462
 Account: CORCCOGJ - Olsson Associates
 Project: Kelly 23-2B Cuttings Sampling

QC Batch ID: MP3862
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 01/21/11

Metal	D20530-2 Original MS		SpikeLot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic	4.7	213	199	104.8	60-119
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP3862: D20462-1, D20462-2, D20462-3, D20462-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D20462
 Account: CORCCOGJ - Olsson Associates
 Project: Kelly 23-2B Cuttings Sampling

QC Batch ID: MP3862
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 01/21/11

Metal	D20530-2 Original MSD		SpikeLot MPICPAL % Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic	4.7	202	205	96.2	5.3	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP3862: D20462-1, D20462-2, D20462-3, D20462-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D20462
 Account: CORCCOGJ - Olsson Associates
 Project: Kelly 23-2B Cuttings Sampling

QC Batch ID: MP3862
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 01/21/11

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	96.7	100	96.7	80-120
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP3862: D20462-1, D20462-2, D20462-3, D20462-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.3
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: D20462
 Account: CORCCOGJ - Olsson Associates
 Project: Kelly 23-2B Cuttings Sampling

QC Batch ID: MP3862
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 01/21/11

Metal	D20530-2 Original	SDL 5:25	%DIF	QC Limits
-------	----------------------	----------	------	--------------

Aluminum				
Antimony				
Arsenic	23.2	4.20	81.9 (a)	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP3862: D20462-1, D20462-2, D20462-3, D20462-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

PERMISSION TO LANDFARM
DRILLING CUTTINGS

KELLY WELL

As Landowner(s) of the property, I/we hereby allow Fram Operating, LLC to use the well cuttings stored on this location to be included in the reclamation, restoration and seeding process.

Gary L. Kelly
Gary L. Kelly, Landowner

9-30-11

Date

Date