

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
#2215048

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
7/15/2011

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 05-077-09314	OGCC Facility ID Number 334484	Survey Plat
6. Well/Facility Name: Eberly #23-4-M	7. Well/Facility Number Eberly #23-4-M	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SENE, Sec. 23, T2S, R2E, U		Surface Eqpm Diagram
9. County: Mesa	10. Field Name: Whitewater	Technical Info Page
11. Federal, Indian or State Lease Number: NA		Other

General Notice

<input type="checkbox"/> 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"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <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 <input type="checkbox"/>
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	
*submit cbl and cement job summaries	
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 checked="" type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done
Approximate Start Date: Upon COGCC Approval		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: 7/15/2011 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: 10310 API Number: 05-077-09314
2. Name of Operator: Fram Operating LLC OGCC Facility ID # 334484
3. Well/Facility Name: Eberly #23-4-M Well/Facility Number: Eberly #23-4-M
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE, Sec. 23, T2S, R2E, U

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

This COGCC Form 4 is being submitted as a request for the following items at the Eberly #23-4-M:

- *Beneficial reuse of drill cuttings,
- *Variance of the electrical conductivity (EC) in drill cuttings and,
- *Use of background arsenic concentrations.

The cuttings were generated by Fram Operating LLC during the Fall of 2010 during closed-loop drilling activities on the Eberly #23-4-M well (API 05-077-09314). It is Fram's intent to use these cuttings as recontouring fill during the interim reclamation process on the Eberly 23-4-M location. No off-site transportation will occur. It is not anticipated that any treatment of the cuttings will be performed, other than mixing with native soil during reclamation activities.

A composite cuttings sample and a grab background sample were collected in August 2010 and analyzed for the Table 910-1 requirements. The results indicated that the cuttings exceeded Table 910-1 standards for Arsenic (1.98 mg/kg) and EC (96 mmhos/cm).

*Arsenic Concentrations

The arsenic concentration in the background sample was above the concentration found in the cuttings sample. Fram is requesting that the arsenic concentration of the cuttings be considered within allowable background levels.

CS-1 (cuttings sample) - 1.98 mg/kg

BG1 (background) - 4.54 mg/kg

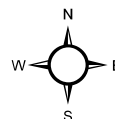
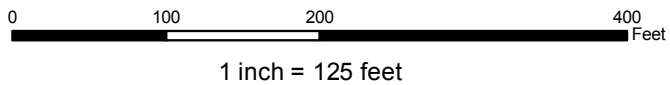
*Electrical Conductivity

As shown in the analytical results summary, the electrical conductivity of the cuttings exceeds the COGCC Table 910-1 allowable concentration. Fram is requesting a variance to Rule 910 in regard to this individual contaminant for the purpose of the beneficial reuse described above.

A sample location map, data summary table and laboratory analytical results are attached.



- ★ Eberly 24-3-M
- Sample Location
- Approximate Pad Perimeter



PROJECT NO:	010-1958	EBERLY 24-3-M PAD BACKGROUND SAMPLE LOCATION FRAM OPERATING LLC MESA COUNTY, COLORADO	 <div> 826 21-1/2 ROAD GRAND JUNCTION, CO 81505 TEL 970.263.7800 </div>	FIGURE
DRAWN BY:	Brian Swedhin			1
DATE:	6/29/2011			

Table 1
Eberly Pad 24-3-M Cuttings Sample
Data Summary

SAMPLE SUMMARY	
Location Description	Eberly Pad 24-3-M
Sample Type	Soil
Sample Date	8/25/2010

LABORATORY DATA SUMMARY				
Sample ID	BG1	CS-1	ALLOWABLE LIMITS	UNITS
Analytical Parameters				
TPH				
TPH GRO	NT	ND	NA	mg/kg
TPH DRO	NT	ND	NA	mg/kg
Residual Range Organics	NT	ND	NA	mg/kg
Total TPH	NT	ND	500	mg/kg
BTEX				
Benzene	NT	0.00628	0.17	mg/kg
Toluene	NT	ND	85	mg/kg
Ethylbenzene	NT	0.00432	100	mg/kg
m,p-Xylene	NT	0.0100	175	mg/kg
o-Xylene	NT	0.00512	175	mg/kg
Metals				
Chromium, Hexavalent	ND	ND	23	mg/kg
Mercury	0.0161	0.0081	23	mg/kg
Arsenic	4.54	1.98	0.39	mg/kg
Barium	208	205	15,000	mg/kg
Cadmium	0.314	0.342	70	mg/kg
Chromium	13	8	120,000	mg/kg
Copper	13.3	14.6	3,100	mg/kg
Lead	7.91	5.78	400	mg/kg
Nickel	16.4	8.85	1,600	mg/kg
Selenium	1.21	1.13	390	mg/kg
Silver	0.842	ND	390	mg/kg
Zinc	42.6	33.1	23,000	mg/kg
Polynuclear Aromatic Hydrocarbons				
Anthracene	NT	ND	1,000	mg/kg
Acenaphthene	NT	ND	1,000	mg/kg
Benzo(a)anthracene	NT	ND	0.22	mg/kg
Benzo(a)pyrene	NT	ND	0.022	mg/kg
Benzo(b)fluoranthene	NT	ND	0.22	mg/kg
Benzo(k)fluoranthene	NT	ND	2.2	mg/kg
Chrysene	NT	ND	22	mg/kg
Dibenzo(a,h)anthracene	NT	ND	0.022	mg/kg
Fluoranthene	NT	ND	1,000	mg/kg
Fluorene	NT	ND	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	NT	ND	0.22	mg/kg
Napthalene	NT	0.06	23	mg/kg
Pyrene	NT	ND	1,000	mg/kg
General Chemistry				
Percent Moisture	5.59	26.6	NA	%
pH	7.75	8.94	6-9	su
Sodium Adsorption Ratio	0.158	3.13	<12	NA
Specific Conductance	1.86	96	4 or 2x 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

10/27/2010

Olsson Associates

Tim Dobransky

826 21 1/2 Road

Grand Junction

CO

81505

Project Name- Eberly PAD 24-3-M

Project Number- [none]

Attached are your analytical results for Eberly PAD 24-3-M received by Origins Laboratory, Inc. August 27, 2010 9:06 am. This project is associated with Origins project number X008142-01.

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: [none]

Project: Eberly PAD 24-3-M

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
BG-1	X008142-01	Soil	8/25/2010 12:35:00PM	08/27/2010 09:06
CS-1	X008142-02	Soil	8/25/2010 2:10:00PM	08/27/2010 09:06

Origins Laboratory, Inc.



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.

Noelle E Doyle,

Olsson Associates

826 21 1/2 Road

Grand Junction CO

81505

Tim Dobransky

Project Number: [none]

Project: Eberly PAD 24-3-M

www.originslaboratory.com

X008142 page 1 of 1

ORIGINS LABORATORY, INC

Client: OLSSON ASSOCIATES

Address: 826 21 1/2 Rd, GRAND JUNCTION CO 81505

Telephone Number: 970 263-7800 x 2002

Email Address: tdobransky@dacconsulting.com

Project Manager: Tim Dobransky

Project Name: Eberly PAD 24-3-M

Project Number:

Samples Collected By: JESS VANN

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
BG-1	8-25-10	1235	2	X					X			410 LSI - METALS, PH, SAR, EC	1
CS-1	8-25-10	1410	5	X					X			410 LSI - SEE ATTACHMENT	2
													3
													4
													5
													6
													7
													8
													9
													10

Reinquisitioned By: [Signature] Date: 8-26-10 Time: 1100

Reinquisitioned By: [Signature] Date: 8-27-10 Time: 9:06

Received By: Fed Ex

Received By: [Signature]

Turnaround Time: Same Day 20% 24 Hr 100% 48 Hr 50% 72 Hr 25% Standard

Date Results Needed

Origins Laboratory, Inc.

[Signature]

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.

Noelle E Doyle.

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

Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

BG-1

8/25/2010 12:35:00PM

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

X008142-01 (Soil)

Conductivity by E120.1

Conductivity	1860	1	2	US/CM	1	821156	08/31/2010	08/31/2010	
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Metals by SW6010B

Chromium	13	0.331	0.534	mg/kg	1	821161	08/31/2010	08/31/2010	
Zinc	42.6	1.92	5.34	"	"	"	"	"	
Silver	0.842	0.16	2.14	"	"	"	"	"	I, V
Selenium	1.21	0.619	2.14	"	"	"	"	"	I
Nickel	16.4	0.331	1.07	"	"	"	"	"	
Copper	13.3	0.299	3.2	"	"	"	"	"	
Cadmium	0.314	0.16	0.534	"	"	"	"	"	I
Barium	208	0.31	3.2	"	"	"	"	"	J
Lead	7.91	0.844	1.07	"	"	"	"	"	

Metals by SW6020

Arsenic	4.54	0.137	0.424	mg/kg	1	821661	09/01/2010	09/02/2010	
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Metals by SW7196

Chromium, Hexavalent	ND	0.007	0.545	mg/kg	1	821445	09/02/2010	09/02/2010	
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Metals by SW7471A

Mercury	0.0161	0.004	0.0092	mg/kg	1	821282	08/31/2010	09/01/2010	V
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Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

BG-1

8/25/2010 12:35:00PM

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

X008142-01 (Soil)

Percent Moisture by AD2216A

Percent Moisture	5.59	1	1	%	1	820894	08/30/2010	08/30/2010
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pH by SW9045C

pH	7.75			SU	1	820906	08/30/2010	08/30/2010
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Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	0.158				1	821637	09/03/2010	09/03/2010
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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: [none]
Project: Eberly PAD 24-3-M

CS-1

8/25/2010 2:10:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X008142-02 (Soil)

BTEX by EPA 8260B

Benzene	0.00628	0.00200	0.00400	mg/kg	1	OH27001	08/27/2010	08/27/2010
Toluene	ND	0.00200	0.00400	"	"	"	"	"
Ethylbenzene	0.00432	0.00200	0.00400	"	"	"	"	"
m,p-Xylene	0.0100	0.00400	0.00800	"	"	"	"	"
o-Xylene	0.00512	0.00200	0.00400	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %		77.6-134			"	"	"
Surrogate: Toluene-d8	97.6 %		81.4-121			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %		74.7-123			"	"	"

Conductivity by E120.1

Conductivity	96000	1	2	US/CM	1	821156	08/31/2010	08/31/2010
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Metals by SW6010B

Copper	14.6	0.381	4.09	mg/kg	1	821161	08/31/2010	08/31/2010
Chromium	8	0.422	0.681	"	"	"	"	"
Cadmium	0.342	0.204	0.681	"	"	"	"	"
Barium	205	0.395	4.09	"	"	"	"	"
Nickel	8.85	0.422	1.36	"	"	"	"	"
Selenium	1.13	0.79	2.72	"	"	"	"	"

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: [none]
Project: Eberly PAD 24-3-M

CS-1**8/25/2010 2:10:00PM**

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO**X008142-02 (Soil)****Metals by SW6010B**

Silver	ND	0.204	2.72	mg/kg	1	821161	08/31/2010	08/31/2010	
Zinc	33.1	2.45	6.81	"	"	"	"	"	
Lead	5.78	1.08	1.36	"	"	"	"	"	

Metals by SW6020

Arsenic	1.98	0.176	0.545	mg/kg	1	821661	09/01/2010	09/02/2010	
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Metals by SW7196

Chromium, Hexavalent	ND	0.007	0.545	mg/kg	1	821445	09/02/2010	09/02/2010	
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Metals by SW7471A

Mercury	0.0081	0.0052	0.0118	mg/kg	1	821282	08/31/2010	09/01/2010	I, V
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Percent Moisture by AD2216A

Percent Moisture	26.6	1	1	%	1	820894	08/30/2010	08/30/2010	
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pH by SW9045C

pH	8.94			SU	1	820906	08/30/2010	08/30/2010	
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Origins Laboratory, Inc.



Noelle E Doyle,

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

Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

CS-1

8/25/2010 2:10:00PM

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

X008142-02 (Soil)

Polyaromatic Hydrocarbons (PaHs) by SW8270C

Dibenz(a,h)Anthracene	ND	0.037	0.09	mg/kg	1	821654	09/02/2010	09/03/2010	
Naphthalene	0.06	0.029	0.136	"	"	"	"	"	I
Indeno(1,2,3-c,d)Pyrene	ND	0.046	0.136	"	"	"	"	"	
Benzo(a)anthracene	ND	0.038	0.136	"	"	"	"	"	
Fluorene	ND	0.031	0.136	"	"	"	"	"	
Pyrene	ND	0.045	0.136	"	"	"	"	"	
Fluoranthene	ND	0.052	0.136	"	"	"	"	"	
Chrysene	ND	0.031	0.136	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.045	0.136	"	"	"	"	"	
Benzo(a)pyrene	ND	0.034	0.09	"	"	"	"	"	
Anthracene	ND	0.048	0.136	"	"	"	"	"	
Acenaphthene	ND	0.03	0.136	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.027	0.136	"	"	"	"	"	

Surrogate: Nitrobenzene-d5	75 %	63-105	"	"	"
Surrogate: 2-Fluorobiphenyl	89 %	64-104	"	"	"
Surrogate: Terphenyl-D14	87 %	57-122	"	"	"

Sodium Absorption Ratio (SAR) by S29B08

Sodium absorption ratio	3.13	1	821637	09/03/2010	09/03/2010
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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: [none]
Project: Eberly PAD 24-3-M

CS-1

8/25/2010 2:10:00PM

Analyte	Result	Minimum Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X008142-02 (Soil)

TPH-Carbon Chain by EPA Method 8015M

Gasoline (C6-C10)	ND	25.0	50.0	mg/kg	1	OH31005	08/31/2010	08/31/2010
Diesel (C10-C28)	ND	25.0	50.0	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	100	200	"	"	"	"	"
TPH - Carbon Chain Total	ND	25.0	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	85.2 %	65-140	"	"	"
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Origins Laboratory, Inc.



Noelle E Doyle,

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

Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

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 OH31005 - Default Prep GC-Semi										
Blank (OH31005-BLK1)				Prepared: 08/31/2010 Analyzed: 08/31/2010						
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Residual Range Organics (C28-C36)	ND	200	"							
TPH - Carbon Chain Total	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	<i>37.7</i>		<i>g</i>	<i>50.0</i>		<i>75.5</i>	<i>65-140</i>			
LCS (OH31005-BS1)				Prepared: 08/31/2010 Analyzed: 08/31/2010						
Gasoline (C6-C10)	175	50.0	mg/kg				65-140			
Diesel (C10-C28)	375	50.0	"	500		75.1	60-140			
<i>Surrogate: o-Terphenyl</i>	<i>42.7</i>		<i>g</i>	<i>50.0</i>		<i>85.5</i>	<i>65-140</i>			
Matrix Spike (OH31005-MS1)				Source: X008137-01		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Gasoline (C6-C10)	1070	50.0	mg/kg		831		65-130			
Diesel (C10-C28)	11600	50.0	"	500	9670	378	60-140			QM-07
<i>Surrogate: o-Terphenyl</i>	<i>40.6</i>		<i>g</i>	<i>50.0</i>		<i>81.1</i>	<i>65-140</i>			
Matrix Spike Dup (OH31005-MSD1)				Source: X008137-01		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Gasoline (C6-C10)	1050	50.0	mg/kg		831		65-130	2.70	20	
Diesel (C10-C28)	11200	50.0	"	500	9670	304	60-140	3.25	25	QM-07
<i>Surrogate: o-Terphenyl</i>	<i>38.5</i>		<i>g</i>	<i>50.0</i>		<i>76.9</i>	<i>65-140</i>			

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

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 OH27001 - EPA 5030B

Blank (OH27001-BLK1)

Prepared: 08/27/2010 Analyzed: 08/27/2010

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	68.9	ug/L	62.5	110	77.6-134
Surrogate: Toluene-d8	61.8	"	62.5	98.8	81.4-121
Surrogate: 4-Bromofluorobenzene	62.5	"	62.5	100	74.7-123

LCS (OH27001-BS1)

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.19	0.004	mg/kg	0.200	92.8	75.2-128
Toluene	0.19	0.004	"	0.200	95.9	76.3-130

Surrogate: 1,2-Dichloroethane-d4	72.8	ug/L	62.5	116	77.6-134
Surrogate: Toluene-d8	60.7	"	62.5	97.1	81.4-121
Surrogate: 4-Bromofluorobenzene	60.9	"	62.5	97.5	74.7-123

Matrix Spike (OH27001-MS1)

Source: X008131-01

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.15	0.004	mg/kg	0.200	ND	73.4	77.6-132			QM-07
Toluene	0.13	0.004	"	0.200	ND	63.1	74-136			QM-07

Surrogate: 1,2-Dichloroethane-d4	69.4	ug/L	62.5	111	77.6-134
Surrogate: Toluene-d8	59.8	"	62.5	95.7	81.4-121
Surrogate: 4-Bromofluorobenzene	64.4	"	62.5	103	74.7-123

Matrix Spike Dup (OH27001-MSD1)

Source: X008131-01

Prepared: 08/27/2010 Analyzed: 08/27/2010

Benzene	0.15	0.004	mg/kg	0.200	ND	74.4	77.6-132	1.33	13.1	QM-07
Toluene	0.13	0.004	"	0.200	ND	64.6	74-136	2.29	20.9	QM-07

Surrogate: 1,2-Dichloroethane-d4	69.4	ug/L	62.5	111	77.6-134
Surrogate: Toluene-d8	59.2	"	62.5	94.7	81.4-121
Surrogate: 4-Bromofluorobenzene	62.7	"	62.5	100	74.7-123

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

Conductivity by E120.1 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 821156 - NONE

LCS (821156-1-BKS)		Source: 821156-1-BKS			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Conductivity	1410	2	US/CM	1410	±1.00	100	80-120	0	20	
BLANK (821156-1-BLK)		Source: 821156-1-BLK			Prepared: 08/31/2010 Analyzed: 08/31/2010					
Conductivity	ND	2	US/CM	0			-	0	20	

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

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 821161 - SW3050B

MS (387608-001 S)				Source: 387608-001 S		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Zinc	146	5.29	mg/kg	106	42.6	98	75-125	0	20	
Lead	114	1.06	"	106	7.91	100	75-125	0	20	
Barium	344	3.17	"	106	208	128	75-125	0	20	J
Cadmium	115	0.529	"	106	0.314	108	75-125	0	20	
Copper	125	3.17	"	106	13.3	105	75-125	0	20	
Nickel	121	1.06	"	106	16.4	99	75-125	0	20	
Selenium	111	2.11	"	106	1.21	104	75-125	0	20	
Silver	60.4	2.11	"	52.9	0.842	113	75-125	0	20	
Chromium	121	0.529	"	106	12.6	102	75-125	0	0	

MSD (387608-001 SD)				Source: 387608-001 SD		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Zinc	135	5.32	mg/kg	106	42.6	87	75-125	8	20	
Barium	311	3.19	"	106	208	97	75-125	10	20	J
Cadmium	108	0.532	"	106	0.314	102	75-125	6	20	
Chromium	112	0.532	"	106	12.6	93	75-125	8	0	
Copper	116	3.19	"	106	13.3	97	75-125	7	20	
Lead	106	1.06	"	106	7.91	93	75-125	7	20	
Nickel	112	1.06	"	106	16.4	90	75-125	8	20	
Selenium	104	2.13	"	106	1.21	97	75-125	7	20	
Silver	56.8	2.13	"	53.2	0.842	105	75-125	6	20	

LCS (572026-1-BKS)				Source: 572026-1-BKS		Prepared: 08/31/2010 Analyzed: 08/31/2010				
Lead	104	1	mg/kg	100	±0.790	104	75-125	0	20	
Zinc	111	5	"	100	±1.80	111	75-125	0	20	
Silver	56.1	2	"	50	0.296	112	75-125	0	20	
Nickel	107	1	"	100	±0.310	107	75-125	0	20	

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Project Number: [none]
Project: Eberly PAD 24-3-M

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 821161 - SW3050B

LCS (572026-1-BKS)			Source: 572026-1-BKS		Prepared: 08/31/2010 Analyzed: 08/31/2010					
Barium	107	3	mg/kg	100	±0.290	107	75-125	0	20	
Copper	105	3	"	100	±0.280	105	75-125	0	20	
Chromium	103	0.5	"	100	±0.310	103	75-125	0	20	
Cadmium	109	0.5	"	100	±0.150	109	75-125	0	20	
Selenium	105	2	"	100	±0.580	105	75-125	0	20	

BLANK (572026-1-BLK)			Source: 572026-1-BLK		Prepared: 08/31/2010 Analyzed: 08/31/2010					
Lead	ND	1	mg/kg	100			-	0	20	
Silver	0.296	2	"	50			-	0	20	I, V
Copper	ND	3	"	100			-	0	20	
Zinc	ND	5	"	100			-	0	20	
Selenium	ND	2	"	100			-	0	20	
Nickel	ND	1	"	100			-	0	20	
Barium	ND	3	"	100			-	0	20	
Chromium	ND	0.5	"	100			-	0	20	
Cadmium	ND	0.5	"	100			-	0	20	

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

Metals by SW6020 - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 821661 - SW3050B										
MS (387259-001 S)		Source: 387259-001 S			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	27.4	0.469	mg/kg	23.5	5.29	94	75-125	0	30	
MSD (387259-001 SD)		Source: 387259-001 SD			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	27.3	0.469	mg/kg	23.5	5.29	94	75-125	0	30	
LCS (572025-1-BKS)		Source: 572025-1-BKS			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	18.8	0.4	mg/kg	20	40.129	94	75-125	0	30	
BLANK (572025-1-BLK)		Source: 572025-1-BLK			Prepared: 09/01/2010 Analyzed: 09/02/2010					
Arsenic	ND	0.4	mg/kg	20			-	0	30	

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

Metals by SW7196 - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 821445 - SW3060A										
MS (387475-001 S)		Source: 387475-001 S			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	0.386	0.631	mg/kg	0.394	0.631	98	80-120	0	20	I
LCS (821445-1-BKS)		Source: 821445-1-BKS			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	0.252	0.4	mg/kg	0.25	0.005	101	80-120	0	20	I
BLANK (821445-1-BLK)		Source: 821445-1-BLK			Prepared: 09/02/2010 Analyzed: 09/02/2010					
Chromium, Hexavalent	ND	0.4	mg/kg	0.25			-	0	20	

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Project Number: [none]
Project: Eberly PAD 24-3-M

Metals by SW7471A - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 821282 - SW7471P										
MS (387608-001 S)		Source: 387608-001 S			Prepared: 08/31/2010 Analyzed: 09/01/2010					
Mercury	0.161	0.0092	mg/kg	0.1412	0.0161	103	75-125	0	20	
MSD (387608-001 SD)		Source: 387608-001 SD			Prepared: 08/31/2010 Analyzed: 09/01/2010					
Mercury	0.1617	0.0092	mg/kg	0.1412	0.0161	103	75-125	0	20	
LCS (572130-1-BKS)		Source: 572130-1-BKS			Prepared: 08/31/2010 Analyzed: 09/01/2010					
Mercury	0.154	0.0087	mg/kg	0.1333	0.0079	116	75-125	0	20	
BLANK (572130-1-BLK)		Source: 572130-1-BLK			Prepared: 08/31/2010 Analyzed: 09/01/2010					
Mercury	0.0079	0.0087	mg/kg	0.1333			-	0	20	

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Project Number: [none]

Project: Eberly PAD 24-3-M

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 820894 - NONE

BLANK (820894-1-BLK)

Source: 820894-1-BLK

Prepared: 08/30/2010 Analyzed: 08/30/2010

Percent Moisture	ND	1	%	0	-	0	20
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Project Number: [none]
Project: Eberly PAD 24-3-M

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 821654 - SW3550

MS (387524-001 S)		Source: 387524-001 S			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Benzo(k)fluoranthene	1.97	0.107	mg/kg	1.79	✚0.107	110	60-112	0	20	
Indeno(1,2,3-c,d)Pyrene	1.52	0.107	"	1.79	✚0.107	85	70-130	0	30	
Fluoranthene	1.86	0.107	"	1.79	✚0.107	104	59-106	0	20	
Dibenz(a,h)Anthracene	1.51	0.071	"	1.79	✚0.071	84	47-120	0	20	
Chrysene	1.79	0.107	"	1.79	✚0.107	100	61-106	0	20	
Benzo(b)fluoranthene	1.74	0.107	"	1.79	✚0.107	97	61-108	0	20	
Benzo(a)pyrene	1.65	0.071	"	1.79	✚0.071	92	62-104	0	20	
Benzo(a)anthracene	1.73	0.107	"	1.79	✚0.107	97	51-119	0	20	
Anthracene	1.56	0.107	"	1.79	✚0.107	87	59-104	0	20	
Naphthalene	1.6	0.107	"	1.79	✚0.107	89	50-105	0	20	
Acenaphthene	1.73	0.107	"	1.79	✚0.107	97	48-119	0	20	
Pyrene	1.66	0.107	"	1.79	✚0.107	93	49-125	0	20	
Fluorene	1.72	0.107	"	1.79	✚0.107	96	54-115	0	20	
Surrogate: 2-Fluorobiphenyl	1.52		PERCENT	1.67		91	64-104			
Surrogate: Terphenyl-D14	1.46		"	1.67		87	57-122			
Surrogate: Nitrobenzene-d5	1.32		"	1.67		79	63-105			

MSD (387524-001 SD)		Source: 387524-001 SD			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Fluoranthene	1.91	0.107	mg/kg	1.79	✚0.107	107	59-106	3	20	
Pyrene	1.72	0.107	"	1.79	✚0.107	96	49-125	4	20	
Naphthalene	1.62	0.107	"	1.79	✚0.107	91	50-105	1	20	
Fluorene	1.78	0.107	"	1.79	✚0.107	99	54-115	3	20	
Dibenz(a,h)Anthracene	1.61	0.071	"	1.79	✚0.071	90	47-120	6	20	
Chrysene	1.84	0.107	"	1.79	✚0.107	103	61-106	3	20	
Benzo(k)fluoranthene	2	0.107	"	1.79	✚0.107	112	60-112	2	20	
Benzo(b)fluoranthene	1.84	0.107	"	1.79	✚0.107	103	61-108	6	20	
Benzo(a)pyrene	1.7	0.071	"	1.79	✚0.071	95	62-104	3	20	

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Project Number: [none]
Project: Eberly PAD 24-3-M

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 821654 - SW3550

MSD (387524-001 SD)		Source: 387524-001 SD		Prepared: 09/02/2010 Analyzed: 09/03/2010						
Benzo(a)anthracene	1.75	0.107	mg/kg	1.79	±0.107	98	51-119	1	20	
Anthracene	1.61	0.107	"	1.79	±0.107	90	59-104	3	20	
Acenaphthene	1.79	0.107	"	1.79	±0.107	100	48-119	3	20	
Indeno(1,2,3-c,d)Pyrene	1.56	0.107	"	1.79	±0.107	87	70-130	3	30	
Surrogate: Terphenyl-D14	1.44		PERCENT	1.67		86	57-122			
Surrogate: Nitrobenzene-d5	1.31		"	1.67		78	63-105			
Surrogate: 2-Fluorobiphenyl	1.55		"	1.67		93	64-104			

LCS (572223-1-BKS)		Source: 572223-1-BKS		Prepared: 09/02/2010 Analyzed: 09/03/2010						
Dibenz(a,h)Anthracene	1.41	0.066	mg/kg	1.67	±0.027	84	47-120	0	20	
Pyrene	1.49	0.1	"	1.67	±0.033	89	49-125	0	20	
Naphthalene	1.41	0.1	"	1.67	±0.021	84	50-105	0	20	
Indeno(1,2,3-c,d)Pyrene	1.38	0.1	"	1.67	±0.034	83	70-130	0	30	
Fluorene	1.54	0.1	"	1.67	±0.023	92	54-115	0	20	
Fluoranthene	1.62	0.1	"	1.67	±0.038	97	59-106	0	20	
Acenaphthene	1.55	0.1	"	1.67	±0.022	93	48-119	0	20	
Anthracene	1.39	0.1	"	1.67	±0.035	83	59-104	0	20	
Benzo(a)anthracene	1.52	0.1	"	1.67	±0.028	91	51-119	0	20	
Benzo(a)pyrene	1.45	0.066	"	1.67	±0.025	87	62-104	0	20	
Benzo(b)fluoranthene	1.46	0.1	"	1.67	±0.020	87	61-108	0	20	
Benzo(k)fluoranthene	1.8	0.1	"	1.67	±0.033	108	60-112	0	20	
Chrysene	1.6	0.1	"	1.67	±0.023	96	61-106	0	20	
Surrogate: Terphenyl-D14	1.43		PERCENT	1.67		86	57-122			
Surrogate: Nitrobenzene-d5	1.31		"	1.67		78	63-105			
Surrogate: 2-Fluorobiphenyl	1.53		"	1.67		92	64-104			

BLANK (572223-1-BLK)		Source: 572223-1-BLK		Prepared: 09/02/2010 Analyzed: 09/03/2010						
Benzo(b)fluoranthene	ND	0.1	mg/kg	1.67		-		0	20	

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Tim Dobransky
Project Number: [none]
Project: Eberly PAD 24-3-M

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 821654 - SW3550

BLANK (572223-1-BLK)		Source: 572223-1-BLK			Prepared: 09/02/2010 Analyzed: 09/03/2010					
Fluorene	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			
Fluoranthene	ND	0.1	"	1.67	-	0	20			
Dibenz(a,h)Anthracene	ND	0.066	"	1.67	-	0	20			
Benzo(k)fluoranthene	ND	0.1	"	1.67	-	0	20			
Benzo(a)pyrene	ND	0.066	"	1.67	-	0	20			
Benzo(a)anthracene	ND	0.1	"	1.67	-	0	20			
Anthracene	ND	0.1	"	1.67	-	0	20			
Acenaphthene	ND	0.1	"	1.67	-	0	20			
Chrysene	ND	0.1	"	1.67	-	0	20			
Surrogate: Nitrobenzene-d5	1.28		PERCENT	1.67	77	63-105				
Surrogate: Terphenyl-D14	1.49		"	1.67	89	57-122				
Surrogate: 2-Fluorobiphenyl	1.56		"	1.67	93	64-104				

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Tim Dobransky

Project Number: [none]

Project: Eberly PAD 24-3-M

Notes and Definitions

V detected in the sample and blank

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Spike recovery failed outside method criteria in the MS and/or MSD. LCS passed. Compounds flagged with a "J".

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.



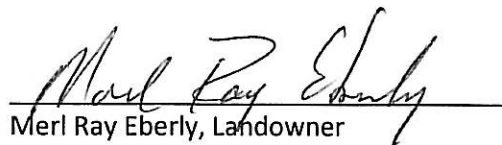
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle,

PERMISSION TO LANDFARM
DRILLING CUTTINGS

EBERLY 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.


Merl Ray Eberly, Landowner

9-21-11
Date


Sherryn S. Eberly, Landowner

9-21-11
Date