

FREMONT ENVIRONMENTAL INC.

August 6, 2024

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
Nakagawa PMB 13-16 Flowline
API # 05-123-15078
SESE Sec. 13, T5N, R64W
Weld County, Colorado
Fremont Project No. C024-126
Remediation # 33881

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Nakagawa PMB 13-16. Impacted soil was not encountered during abandonment activities. Details of the Nakagawa PMB 13-16 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (813) 514-7730 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Joshua J. Belanger
Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Report

**1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)**

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Nakagawa PMB 13-16, 123-15078		Date: 8/6/2024					Remediation Project #: 33881	
Associated Wells: Nakagawa PMB 13-16		Age of Site: 1989					Number of Photos Attached: 1	
Starting point: (GPS coordinates and descriptions) 40.393783, -104.491378								
End point: (GPS coordinates and descriptions) 40.3959099, -104.4983082								
USCS Soil Type: SC					Estimated Depth to Groundwater: >4'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None Observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None Observed								
Flowlines								
Flowline type	Oil/Water/Gas							
Depth	N/A							
Age	1989							
Length	2081							
Construction Material	N/A							
Were flowlines pulled?	No, AIP							
Visual Integrity of lines	N/A							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	Yes, See attached							
Photo Number(s)	See Attached							
Other observations regarding on loction flowlines:								
Summary								
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 2					Total number of samples collected: 2			
Highest PID Reading: 0.8					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required? No								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed prior to sampling:			
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
NAKAGAWA PMB13-16, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
FL01R-W 3.0'	6/5/2024	3.0 FT	40.3937817	-104.4913978	1.00	0.8
SEP01-FL 4.0	6/5/2024	4.0 FT	40.3959099	-104.4983082	0.80	0.6

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
NAKAGAWA PMB13-16, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01R-W 3.0'	6/5/2024	3.0 FT	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SEP01-FL 4.0FT	6/5/2024	4.0FT	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100

1. Bold values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
 4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- NA - Not analyzed

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
NAKAGAWA PMB13-16, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01R-W 3.0'	6/5/2024	3.0 FT	<0.020	<0.020	0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
SEP01-FL 4.0FT	6/5/2024	4.0FT	<0.020	<0.020	<0.005	<0.200	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
NAKAGAWA PMB13-16, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01R-W 3.0'	6/5/2024	3.0 FT	8.45	0.443	0.359	0.328
SEP01-FL 4.0FT	6/5/2024	4.0FT	8.39	0.243	0.170	<0.0996

1. Bold faced values exceed the ECMC Table 915-1 limit(s)
 2. Blue highlighted soil analytical values indicate a regulatory exceedance
- NA - Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
NAKAGAWA PMB13-16, WELD COUNTY, COLORADO
REM # 33881

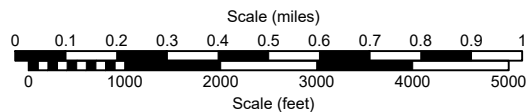
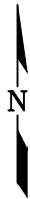
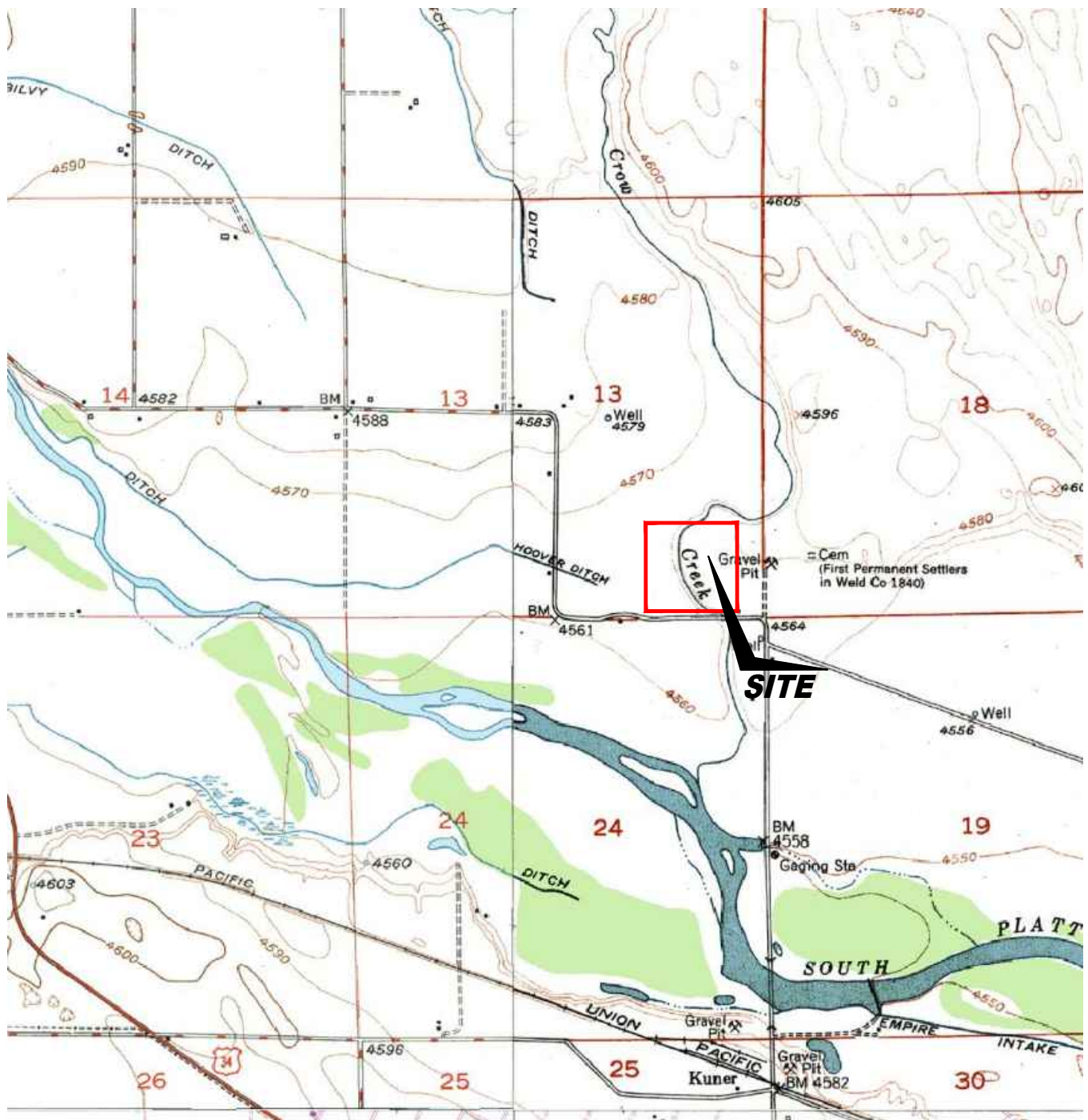
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01R-W 3.0'	6/5/2024	3.0 FT	3.69	45.7	0.231	<0.152	<9.94	10.6	4.17	<0.258	<0.0994	<36.8
SEP01-FL 4.0FT	6/5/2024	4.0FT	1.18	54.4	<0.0875	<0.104	<8.75	4.35	2.84	<0.228	<0.0875	<32.4

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed



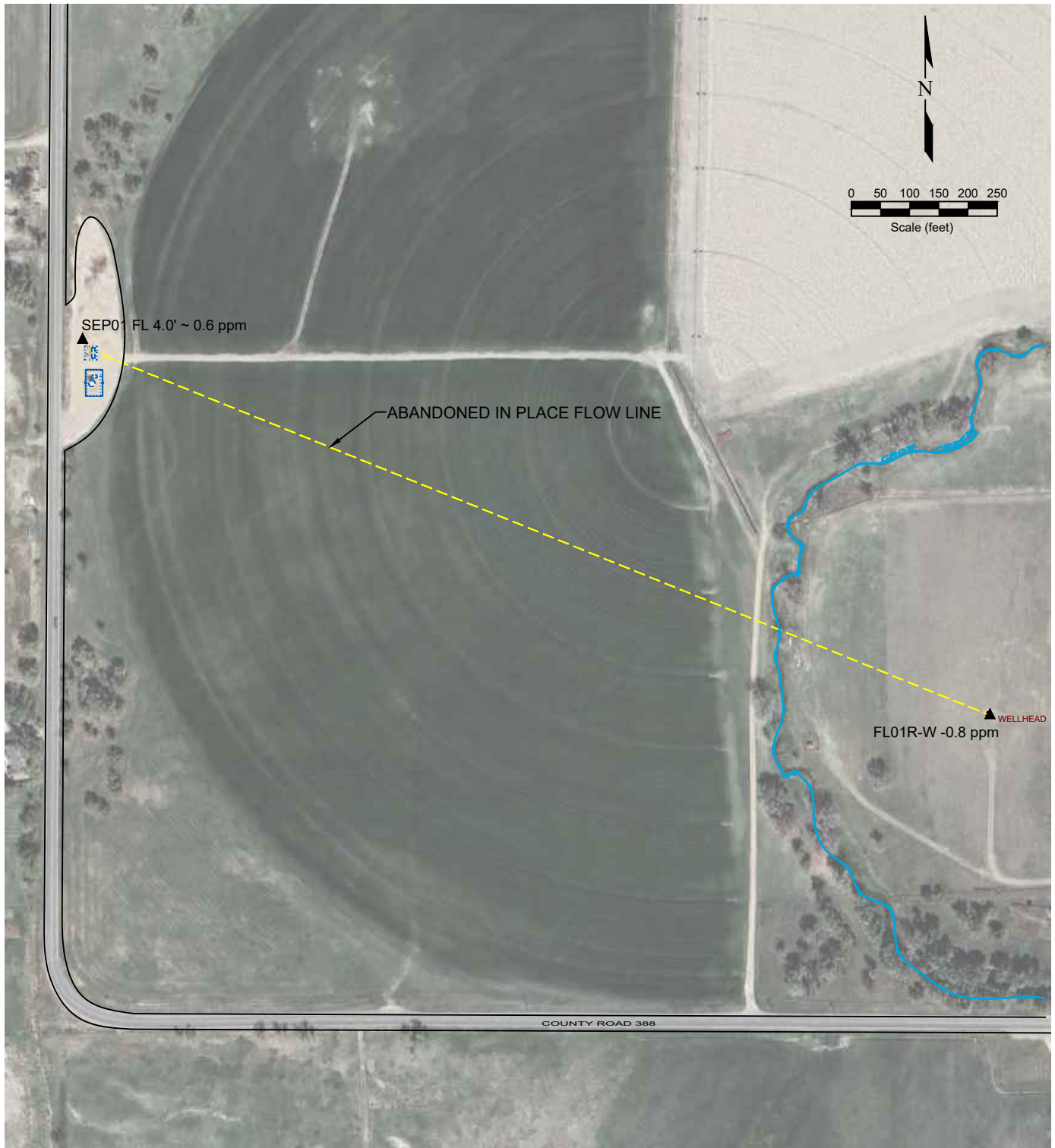
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
 Noble Energy Inc. ~ Nakagawa B13-16

SESE Sec. 13, T5N, R64W, 6th PM
 Weld County, Colorado
 40.393783°, -104.491378°

Project # CO24-126	API # 05-123-15078	Facility #
Date 8/15/24	Remediation # 33881	Filename 24126TFL





LEGEND

- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ABANDONED IN PLACE FLOW LINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

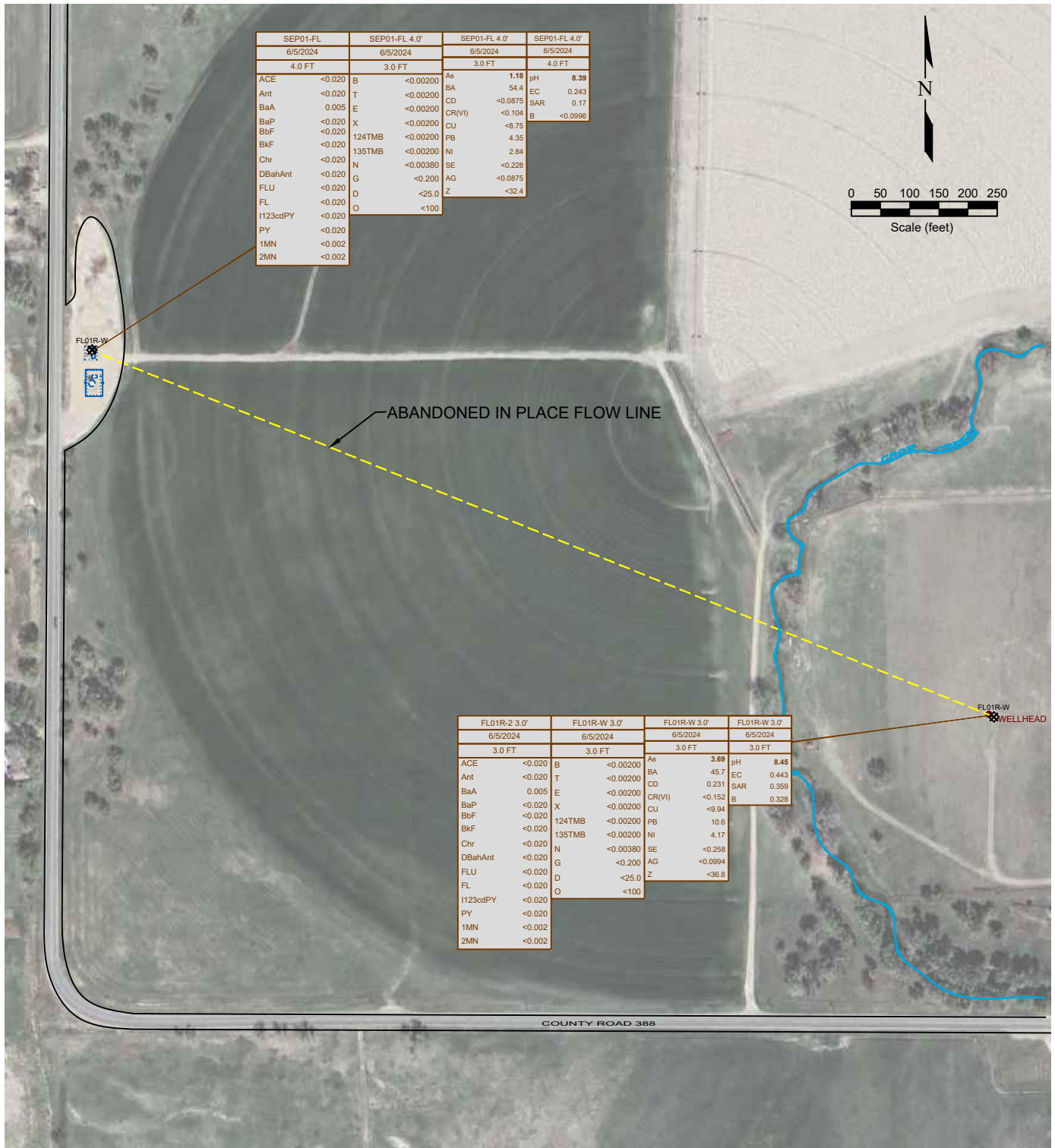
Figure 2
SITE MAP

Noble Energy Inc. ~ Nakagawa B13-16

SESE Sec. 13, T5N, R64W, 6th PM
Weld County, Colorado
40.393783°, -104.491378°

Project No. CO24-126	API # 05-123-15078	Facility #
Date 8/15/24	Remediation # 33881	Filename 24126QFL





LEGEND

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ABANDONED IN PLACE FLOW LINE
- FENCE LINE
- ||||| CONTAINMENT BERM
- CONTAINMENT WALL
- NA NOT ANALYZED

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE	DATE	DATE	DATE	DATE
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
ACE	ACE	ACE	ACE	ACE	ACE
Ant	Ant	Ant	Ant	Ant	Ant
BaA	BaA	BaA	BaA	BaA	BaA
BaP	BaP	BaP	BaP	BaP	BaP
BbF	BbF	BbF	BbF	BbF	BbF
BkF	BkF	BkF	BkF	BkF	BkF
Chr	Chr	Chr	Chr	Chr	Chr
DBahAnt	DBahAnt	DBahAnt	DBahAnt	DBahAnt	DBahAnt
FLU	FLU	FLU	FLU	FLU	FLU
FL	FL	FL	FL	FL	FL
1123cdPY	1123cdPY	1123cdPY	1123cdPY	1123cdPY	1123cdPY
PY	PY	PY	PY	PY	PY
1MN	1MN	1MN	1MN	1MN	1MN
2MN	2MN	2MN	2MN	2MN	2MN

Figure 3
SOIL CHEMISTRY MAP
Noble Energy Inc. ~ Nakagawa B13-16

SESE Sec. 13, T5N, R64W, 6th PM
Weld County, Colorado
40.393783°, -104.491378°

Project No. CO24-126	API # 05-123-15078	Facility #
Date 8/15/24	Remediation # 33881	Filename 24126QFL



Photo Log



Description:

Nakagawa 13-16 decommissioned wellhead and exposed flowline. Facing North.



June 27, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Nakagawa PMB 13-16 (FL)

Project Number - UWRWE_A4056_ABN

Attached are your analytical results for Nakagawa PMB 13-16 (FL) received by Origins Laboratory, Inc. June 05, 2024. This project is associated with Origins project number Y406148-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W 3.0FT	Y406148-01	Soil	June 5, 2024 0:00	06/05/2024 17:00

Chain of Custody Modification Request

On 6/19/2024, Ethan from Fremont contacted Jordan Bynon via email regarding Y406148 requesting that PAH be added. Requested modifications to the chain of custody were made by Jordan Bynon on 6/19/2024.

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.

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4406148

page of

Client: Fremont Env.

Address:

Telephone Number: 813-514-7730

Email Address: stuart@originslab.com

Project Manager: Paul Henehan

Project Name: NAKAGAWA PMB 13-16 (FL)

Project Number: UWRWE_A4056-ABN

Samples Collected By: Joshua Belanger

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
FL01R-W 30ft 6-5-24	6-5-24		2								1
											2
											3
											4
											5
											6
											7
											8
											9
											10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Joshua Belanger	6-5-24	1330	Paul Henehan	6-5-24	1330	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
1/11/24	06/05/24	1700	Paul Henehan	06/05/24	1700	

Temp Received: 4.2°C Date Results Needed

Origins Laboratory, Inc.

Bynon

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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 7406148 Client: Fremont
Client Project ID: NAIZAGANA PMB 13-16

Checklist Completed by: JTB/CHD Shipped Via: TLO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 6/10/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Cooler Number/Temperature: 1 4.2 °C 1 °C 1 °C (Describe) °C
Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) CHD Date/Time Reviewed 6/10/24

Origins Laboratory, Inc.

J. Bynon

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.

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

FL01R-W 3.0FT
6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406148-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.328	0.100	mg/L	1	B4F0708	06/07/2024	06/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4F0631	06/06/2024	06/12/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4F0735	06/07/2024	06/07/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

FL01R-W 3.0FT
6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406148-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	B4F07 35	06/07/2024	06/07/2024
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	80.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.74	0.499	meq/L	10	[CALC]	06/10/2024	06/11/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1934	06/19/2024	06/22/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.005	0.005	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

FL01R-W 3.0FT
6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406148-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4F1934	06/19/2024	06/22/2024	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.5 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.45	pH Units	1	B4F1018	06/10/2024	06/11/2024
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SAR by 20B Saturated Paste

SAR	0.359	0.0100	SAR	1	B4F1016	06/10/2024	06/11/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.443	0.00500	mmhos/cm	1	B4F1018	06/10/2024	06/11/2024
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Table 915 metals by EPA 6020B

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Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

FL01R-W 3.0FT
6/5/2024 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406148-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.69	0.288	mg/kg	10	B4F0626	06/06/2024	06/07/2024
Barium	45.7	9.94	"	"	"	"	"
Cadmium	0.231	0.0994	"	"	"	"	"
Copper	ND	9.94	"	"	"	"	"
Lead	10.6	0.994	"	"	"	"	"
Nickel	4.17	0.994	"	"	"	"	"
Selenium	ND	0.258	"	"	"	"	"
Silver	ND	0.0994	"	"	"	"	"
Zinc	ND	36.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.152	0.379	mg/kg dry	1	2626302	06/14/2024	06/17/2024	U
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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0631 - EPA 3550B										
Blank (B4F0631-BLK1)					Prepared: 06/06/2024 Analyzed: 06/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		88.3	50-150			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Extractable Petroleum Hydrocarbons by 8015D - 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 B4F0631 - EPA 3550B

LCS (B4F0631-BS1)

Prepared: 06/06/2024 Analyzed: 06/12/2024

Diesel (C10-C28)	915	50.0	mg/kg	1000		91.5	70-130			
Residual Range Organics (C28-C40)	928	200	"	1000		92.8	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Extractable Petroleum Hydrocarbons by 8015D - 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 B4F0631 - EPA 3550B

Matrix Spike (B4F0631-MS1)		Source: Y406130-01			Prepared: 06/06/2024 Analyzed: 06/12/2024					
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130			
Residual Range Organics (C28-C40)	954	200	"	1000	ND	95.4	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0631 - EPA 3550B										
Matrix Spike Dup (B4F0631-MSD1)	Source: Y406130-01				Prepared: 06/06/2024 Analyzed: 06/12/2024					
Diesel (C10-C28)	929	50.0	mg/kg	1000	ND	92.9	70-130	0.664	35	
Residual Range Organics (C28-C40)	940	200	"	1000	ND	94.0	70-130	1.46	35	
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0735 - EPA 5030 (soil)										
Blank (B4F0735-BLK1)					Prepared: 06/07/2024 Analyzed: 06/07/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.10		"	0.125		83.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0735 - EPA 5030 (soil)										
LCS (B4F0735-BS1)					Prepared: 06/07/2024 Analyzed: 06/07/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0922	0.00200	"	0.100		92.2	70-130			
Ethylbenzene	0.0886	0.00200	"	0.100		88.6	70-130			
Naphthalene	0.0863	0.00380	"	0.100		86.3	70-130			
Toluene	0.0895	0.00200	"	0.100		89.5	70-130			
o-Xylene	0.0817	0.00200	"	0.100		81.7	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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Project: Nakagawa PMB 13-16 (FL)

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0735 - EPA 5030 (soil)										
Matrix Spike (B4F0735-MS1)		Source: Y406148-01			Prepared: 06/07/2024 Analyzed: 06/07/2024					
1,2,4-Trimethylbenzene	0.0792	0.00200	mg/kg	0.100	ND	79.2	70-130			
1,3,5-Trimethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
Benzene	0.0753	0.00200	"	0.100	ND	75.3	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Naphthalene	0.0810	0.00380	"	0.100	ND	81.0	70-130			
Toluene	0.0908	0.00200	"	0.100	ND	90.8	70-130			
o-Xylene	0.0756	0.00200	"	0.100	ND	75.6	70-130			
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project: Nakagawa PMB 13-16 (FL)

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F0735 - EPA 5030 (soil)										
Matrix Spike Dup (B4F0735-MSD1)			Source: Y406148-01		Prepared: 06/07/2024 Analyzed: 06/07/2024					
1,2,4-Trimethylbenzene	0.0828	0.00200	mg/kg	0.100	ND	82.8	70-130	4.40	20	
1,3,5-Trimethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130	4.29	20	
Benzene	0.0868	0.00200	"	0.100	ND	86.8	70-130	14.2	20	
Ethylbenzene	0.0821	0.00200	"	0.100	ND	82.1	70-130	1.60	20	
Naphthalene	0.0816	0.00380	"	0.100	ND	81.6	70-130	0.689	20	
Toluene	0.0847	0.00200	"	0.100	ND	84.7	70-130	6.90	20	
o-Xylene	0.0778	0.00200	"	0.100	ND	77.8	70-130	2.89	20	
m,p-Xylene	0.162	0.00400	"	0.200	ND	80.8	70-130	2.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Volatile Organic Compounds by GC/MS SW846 8260D - 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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Metals by EPA 6000/7000 Series Methods - 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 B4F0626 - EPA 3050B

Blank (B4F0626-BLK1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Arsenic	ND	0.290	mg/kg
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4F0626-BS1)

Prepared: 06/06/2024 Analyzed: 06/07/2024

Arsenic	5.73	0.290	mg/kg	5.00	115	80-120
Barium	574	10.0	"	500	115	80-120
Cadmium	5.84	0.100	"	5.00	117	80-120
Copper	58.8	10.0	"	50.0	118	80-120
Lead	5.85	1.00	"	5.00	117	80-120
Nickel	5.90	1.00	"	5.00	118	80-120
Selenium	10.8	0.260	"	9.50	113	80-120
Silver	5.95	0.100	"	5.00	119	80-120
Zinc	55.5	37.0	"	50.0	111	80-120

Matrix Spike (B4F0626-MS1)

Source: Y406135-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

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Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Metals by EPA 6000/7000 Series Methods - 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 B4F0626 - EPA 3050B

Matrix Spike (B4F0626-MS1)		Source: Y406135-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Arsenic	9.03	0.277	mg/kg	4.78	3.59	114	75-125			QM-07
Barium	884	9.56	"	478	253	132	75-125			
Cadmium	5.89	0.0956	"	4.78	0.288	117	75-125			
Copper	63.4	9.56	"	47.8	10.5	111	75-125			
Lead	13.2	0.956	"	4.78	8.21	104	75-125			
Nickel	12.2	0.956	"	4.78	7.20	104	75-125			
Selenium	11.1	0.248	"	9.08	0.182	120	75-125			
Silver	5.71	0.0956	"	4.78	0.122	117	75-125			
Zinc	85.8	35.4	"	47.8	34.9	106	75-125			
Matrix Spike Dup (B4F0626-MSD1)		Source: Y406135-01			Prepared: 06/06/2024 Analyzed: 06/07/2024					
Arsenic	9.20	0.276	mg/kg	4.76	3.59	118	75-125	1.95	20	
Barium	819	9.51	"	476	253	119	75-125	7.57	20	
Cadmium	6.09	0.0951	"	4.76	0.288	122	75-125	3.43	20	
Copper	66.9	9.51	"	47.6	10.5	119	75-125	5.42	20	
Lead	13.9	0.951	"	4.76	8.21	119	75-125	4.98	20	
Nickel	12.8	0.951	"	4.76	7.20	117	75-125	4.90	20	
Selenium	11.4	0.247	"	9.04	0.182	124	75-125	2.78	20	
Silver	5.83	0.0951	"	4.76	0.122	120	75-125	2.17	20	
Zinc	91.2	35.2	"	47.6	34.9	118	75-125	6.11	20	

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1934 - EPA 3580

Blank (B4F1934-BLK1)

Prepared: 06/19/2024 Analyzed: 06/22/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	190		ug/kg	200		92.5	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	180		"	200		88.8	60-130			
Surrogate: Benzo (a) pyrene-d12	170		"	200		85.6	60-130			

LCS (B4F1934-BS1)

Prepared: 06/19/2024 Analyzed: 06/22/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200		91.5	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.0	70-130			
Anthracene	0.192	0.020	"	0.200		95.8	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1934 - EPA 3580

LCS (B4F1934-BS1)

Prepared: 06/19/2024 Analyzed: 06/22/2024

Benzo (a) anthracene	0.198	0.005	mg/kg	0.200		98.9	70-130			
Benzo (a) pyrene	0.196	0.020	"	0.200		97.8	70-130			
Benzo (b) fluoranthene	0.230	0.020	"	0.200		115	70-130			
Benzo (g,h,i) perylene	0.252	0.020	"	0.200		126	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		102	70-130			
Chrysene	0.195	0.020	"	0.200		97.4	70-130			
Dibenz (a,h) anthracene	0.244	0.020	"	0.200		122	70-130			
Fluoranthene	0.215	0.020	"	0.200		107	70-130			
Fluorene	0.173	0.020	"	0.200		86.7	70-130			
Indeno (1,2,3-cd) pyrene	0.245	0.020	"	0.200		122	70-130			
Naphthalene	0.221	0.002	"	0.200		111	70-130			
Phenanthrene	0.209	0.020	"	0.200		104	70-130			
Pyrene	0.204	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	180		ug/kg	200		91.0	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	190		"	200		95.8	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Matrix Spike (B4F1934-MS1)

Source: Y406541-01

Prepared: 06/19/2024 Analyzed: 06/24/2024

1-Methylnaphthalene	0.277	0.002	mg/kg	0.200	0.017	130	70-130			
2-Methylnaphthalene	0.308	0.002	"	0.200	0.024	142	70-130			QM-07
Acenaphthene	0.215	0.020	"	0.200	0.002	106	70-130			
Anthracene	0.207	0.020	"	0.200	0.004	101	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200	0.002	93.7	70-130			
Benzo (a) pyrene	0.169	0.020	"	0.200	0.002	83.9	70-130			
Benzo (b) fluoranthene	0.186	0.020	"	0.200	0.001	92.3	70-130			
Benzo (g,h,i) perylene	0.236	0.020	"	0.200	ND	118	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1934 - EPA 3580

Matrix Spike (B4F1934-MS1)		Source: Y406541-01			Prepared: 06/19/2024 Analyzed: 06/24/2024					
Benzo (k) fluoranthene	0.175	0.020	mg/kg	0.200	ND	87.5	70-130			
Chrysene	0.183	0.020	"	0.200	0.001	90.8	70-130			
Dibenz (a,h) anthracene	0.271	0.020	"	0.200	0.001	135	70-130			QM-07
Fluoranthene	0.200	0.020	"	0.200	ND	99.9	70-130			
Fluorene	0.206	0.020	"	0.200	0.004	101	70-130			
Indeno (1,2,3-cd) pyrene	0.289	0.020	"	0.200	ND	145	70-130			QM-07
Naphthalene	0.201	0.002	"	0.200	0.005	97.6	70-130			
Phenanthrene	0.220	0.020	"	0.200	0.002	109	70-130			
Pyrene	0.207	0.020	"	0.200	0.0007	103	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	180		"	200		92.0	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B4F1934-MSD1)		Source: Y406541-01			Prepared: 06/19/2024 Analyzed: 06/24/2024					
1-Methylnaphthalene	0.218	0.002	mg/kg	0.200	0.017	100	70-130	23.9	20	QR-02
2-Methylnaphthalene	0.231	0.002	"	0.200	0.024	104	70-130	28.6	20	QR-02
Acenaphthene	0.199	0.020	"	0.200	0.002	98.5	70-130	7.65	20	
Anthracene	0.196	0.020	"	0.200	0.004	96.2	70-130	5.25	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.002	90.3	70-130	3.73	20	
Benzo (a) pyrene	0.174	0.020	"	0.200	0.002	86.1	70-130	2.56	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.001	106	70-130	14.1	20	
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	ND	105	70-130	11.5	20	
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130	19.7	20	
Chrysene	0.189	0.020	"	0.200	0.001	93.9	70-130	3.34	20	
Dibenz (a,h) anthracene	0.252	0.020	"	0.200	0.001	125	70-130	7.50	20	
Fluoranthene	0.170	0.020	"	0.200	ND	85.1	70-130	15.9	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4F1934 - EPA 3580

Matrix Spike Dup (B4F1934-MSD1)		Source: Y406541-01			Prepared: 06/19/2024 Analyzed: 06/24/2024					
Fluorene	0.175	0.020	mg/kg	0.200	0.004	85.4	70-130	16.1	20	
Indeno (1,2,3-cd) pyrene	0.248	0.020	"	0.200	ND	124	70-130	15.2	20	
Naphthalene	0.202	0.002	"	0.200	0.005	98.5	70-130	0.847	20	
Phenanthrene	0.201	0.020	"	0.200	0.002	99.5	70-130	8.99	20	
Pyrene	0.168	0.020	"	0.200	0.0007	83.5	70-130	21.0	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.2	60-130			
Surrogate: Anthracene-d10	180		"	200		91.9	60-130			
Surrogate: Pyrene-d10	180		"	200		87.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Origins Laboratory, Inc.



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Fremont Environmental
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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Classical Chemistry Parameters - 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 B4F0708 - DTPA Sorbitol Preparation

Blank (B4F0708-BLK1)

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron ND 0.100 mg/L

Duplicate (B4F0708-DUP1)

Source: Y406145-01

Prepared: 06/07/2024 Analyzed: 06/10/2024

Boron 0.412 0.100 mg/L 0.396 4.15 50

Batch B4F1016 - Saturated Paste Metals

Blank (B4F1016-BLK1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

SAR ND 0.0100 SAR
Calcium PPM ND 10.0 mg/L
Magnesium PPM ND 10.0 "
Sodium PPM ND 10.0 "

Duplicate (B4F1016-DUP1)

Source: Y406145-01

Prepared: 06/10/2024 Analyzed: 06/11/2024

SAR ND 0.0100 SAR 2.58 200
Calcium PPM 21.3 10.0 mg/L 19.3 9.91 50
Magnesium PPM 4.39 10.0 " 3.92 11.3 50
Sodium PPM 49.4 10.0 " 47.5 4.04 50

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Project: Nakagawa PMB 13-16 (FL)

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1018 - Saturated Paste pH/EC										
Blank (B4F1018-BLK1)					Prepared: 06/10/2024 Analyzed: 06/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1018-DUP1)					Source: Y406145-01 Prepared: 06/10/2024 Analyzed: 06/11/2024					
pH	8.57		pH Units		8.59			0.233	25	
Specific Conductance (EC)	0.424	0.00500	mmhos/cm		0.397			6.75	25	

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2626302 - SW846 3060A										
BLANK (1205760864-BLK)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.277	mg/kg				-			U
LCS (1205760865-BKS)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.46	0.250	mg/kg	2.50		98.2	80-120			
DUP (1205760866 D)					Source: 670666001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.347	mg/kg dry		<0.139		0-50	N/A	50	U
MS (1205760867 S)					Source: 670666001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.76	0.347	mg/kg dry	3.47	<0.139	78.2	75-125			
DUP (1205760868 D)					Source: 670676003 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.264	mg/kg dry		<0.105		0-50	N/A	50	U
MS (1205760869 S)					Source: 670676003 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.33	0.264	mg/kg dry	2.64	<0.105	88.1	75-125			
ILCS (1205760870-ILCS)					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	6.62	0.324	mg/kg	6.79		97.5	80-120			

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Paul Henehan
Project Number: UWRWE_A4056_ABN
Project: Nakagawa PMB 13-16 (FL)

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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