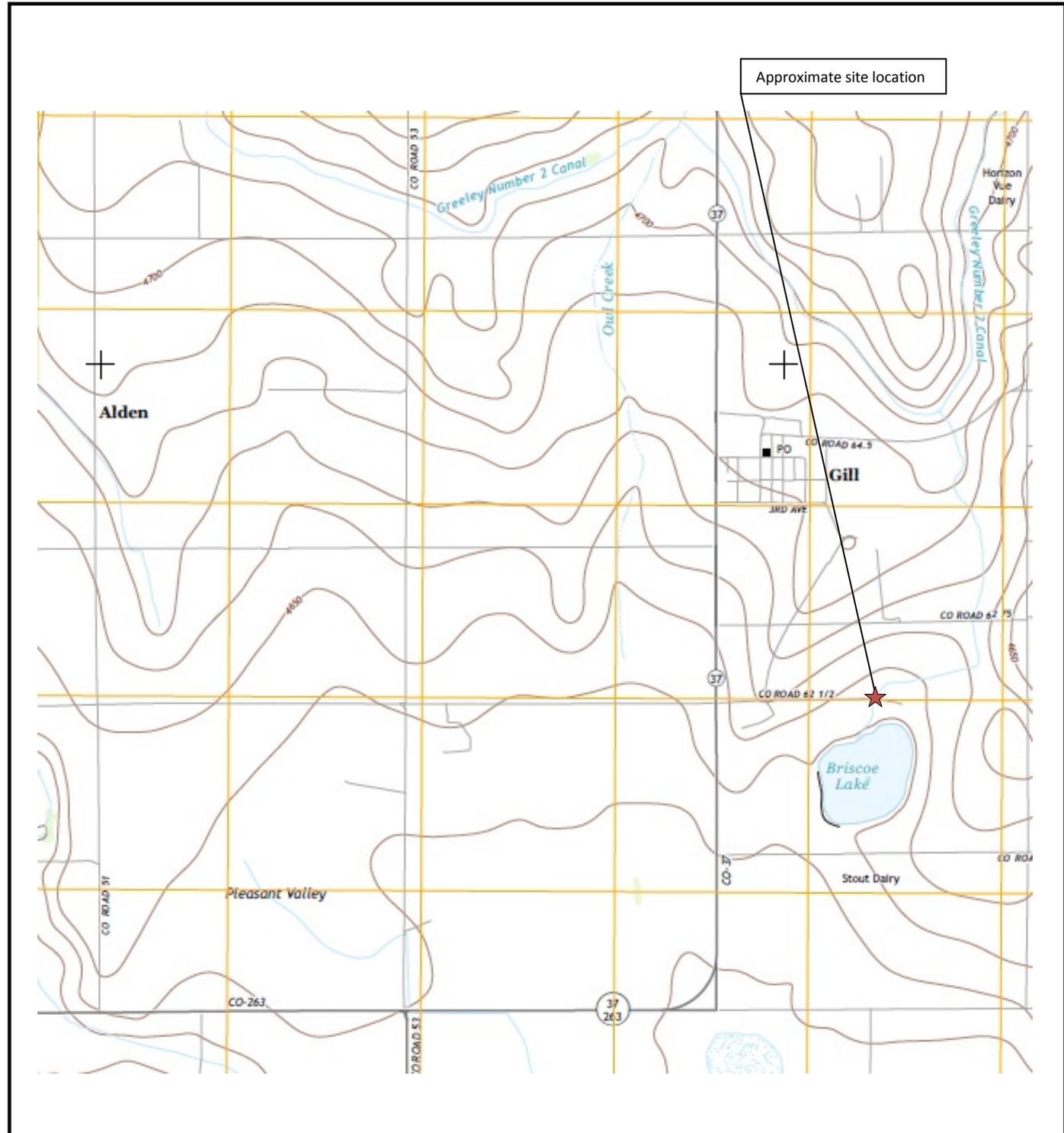


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Analytical Map**



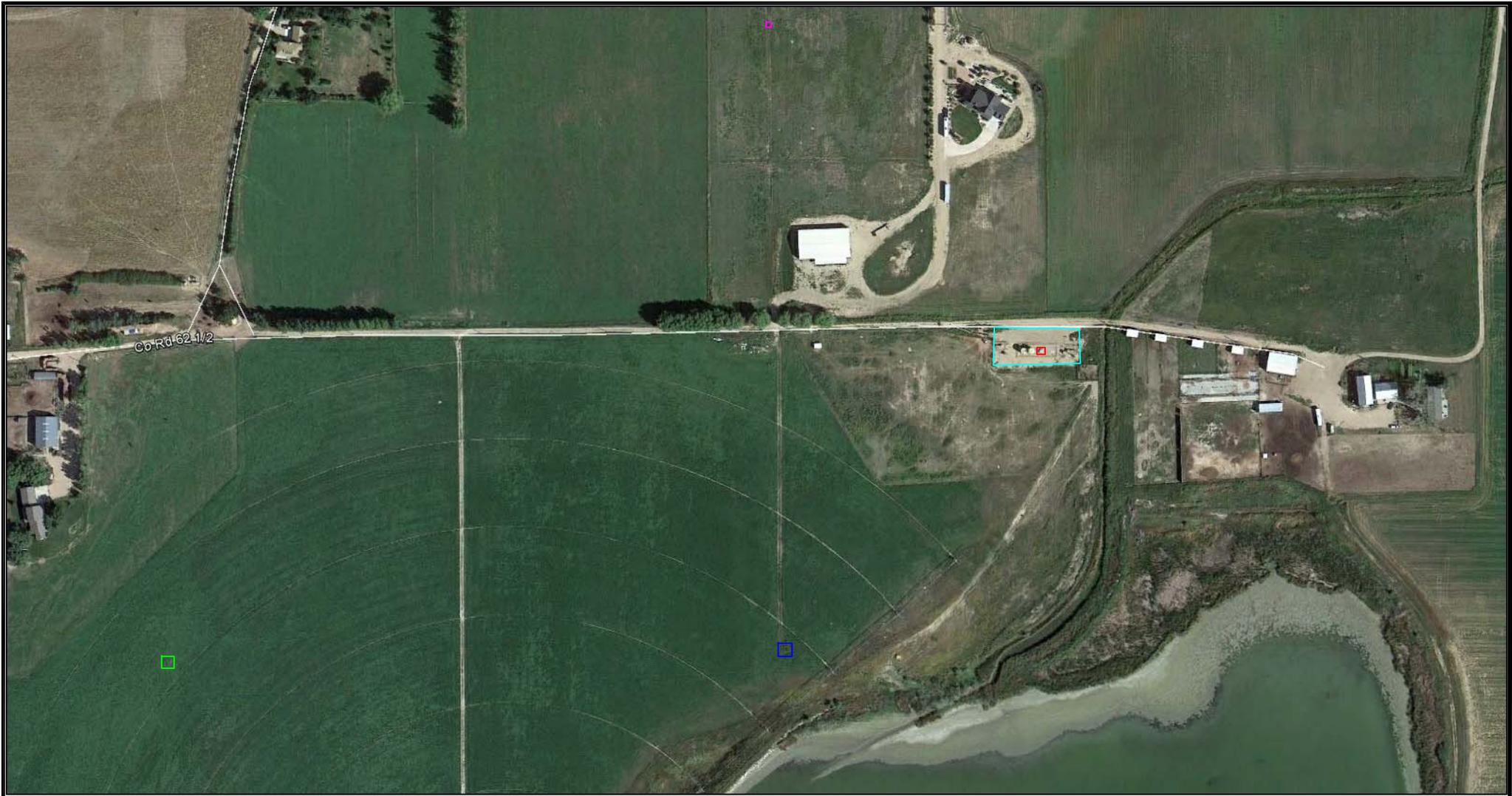
**Site Location Map**  
 Petrikin #A34-6, 11, 12  
 Water Vault Removal  
 40.442592 / -104.536769  
 SENW SEC.34 T6N R64W 6PM  
 Weld County, CO  
 API # 05-123-13726, 05-123-13530, 05-123-13728



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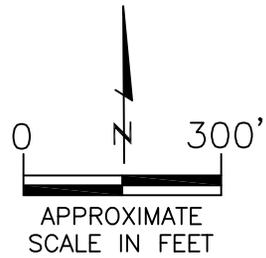
Source: USGS 7.5 Minute Topographic Map, Kersey, CO Quadrangle 2013

**Figure 1**



**LEGEND**

- PETRIKIN #A34-6, 11, 12 TANK BATTERY
- PETRIKIN #A34-6 WELL HEAD
- PETRIKIN #A34-11 WELL HEAD
- PETRIKIN #A34-12 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



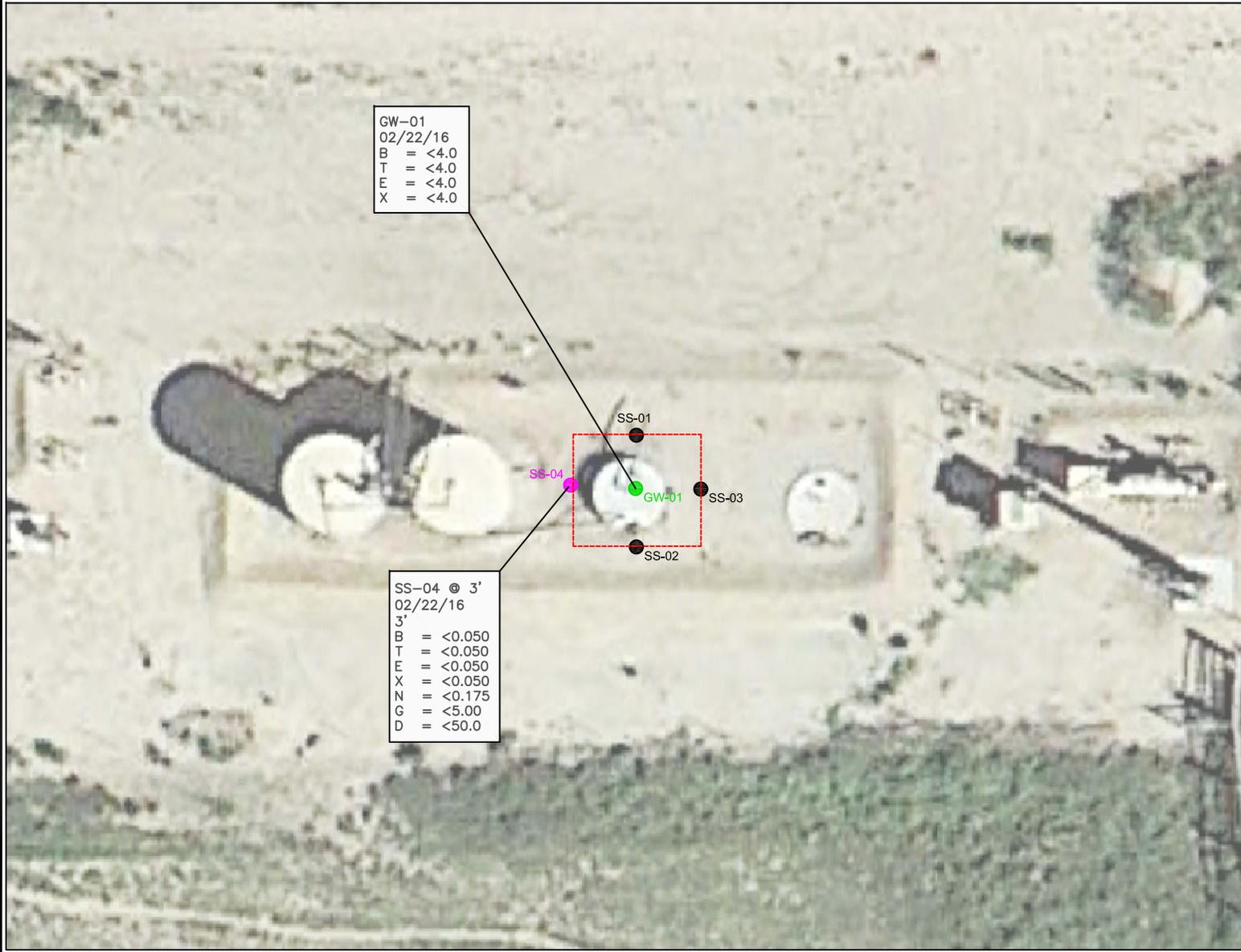
**AERIAL SITE LOCATION MAP**  
 PETRIKIN #A34-6, 11, 12  
 WATER VAULT REMOVAL  
 40.442592 / -104.536769  
 SE1/4 NW1/4 SEC.34 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13726, 05-123-13530,  
 05-123-13728

DATE: 02/22/16	
FIG. NO. 2	DRAWN BY: AMN

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Ph: 303-433-0479 • F: 303-325-5449



GW-01  
02/22/16  
B = <4.0  
T = <4.0  
E = <4.0  
X = <4.0

SS-04 @ 3'  
02/22/16  
3'  
B = <0.050  
T = <0.050  
E = <0.050  
X = <0.050  
N = <0.175  
G = <5.00  
D = <50.0

**LEGEND**

- APPROXIMATE EXCAVATION BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

**SOIL SAMPLE LOCATION**

- DATE
- DEPTH (FEET)
- B = BENZENE (mg/kg)
- T = TOLUENE (mg/kg)
- E = ETHYLBENZENE (mg/kg)
- X = TOTAL XYLENES (mg/kg)
- N = NAPHTHALENE (mg/kg)
- G = TPH-GRO (mg/kg)
- D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

- GW-01 APPROXIMATE LOCATION OF GROUNDWATER SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

**GROUNDWATER SAMPLE LOCATION**

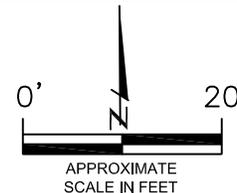
- DATE
- B = BENZENE (ug/l)
- T = TOLUENE (ug/l)
- E = ETHYLBENZENE (ug/l)
- X = TOTAL XYLENES (ug/l)

ug/l = MICROGRAMS PER LITER

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SAMPLE ANALYTICAL MAP  
PETRIKIN #A34-6, 11, 12  
WATER VAULT REMOVAL  
40.442592/-104.536769  
SE1/4 NW1/4 SEC.34 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13726, 05-123-13530, 05-123-13728

NOTE: SITE UNDER DECOMMISSION. FACILITIES NOT OBSERVED ONSITE DURING TIME OF ASSESSMENT.



DATE:	02/23/16
FIG. NO.	3
DRAWN BY:	amn

**EAGLE ENVIRONMENTAL CONSULTING, INC.**  
4101 INCA STREET, DENVER, CO 80211  
Ph: 303-433-0479 • F: 303-325-5449

**TABLE**

**Table 1: Soil Analytical Results Summary**

**Table 2: Groundwater Analytical Results Summary**

**TABLE 1**  
**SOIL ANALYTICAL RESULTS SUMMARY**  
**PETRIKIN #A34-6,11,12**  
**WATER VAULT REMOVAL**  
**40.442592 / -104.536769**  
**SE¼ NW¼ SEC.34 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13726, 05-123-13530, 05-123-13728**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 910-1 Regulatory Limits (mg/kg)</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>500</b>		<b>&lt;4</b>	<b>6 to 9</b>	<b>&lt;12<sup>5</sup></b>
SS-04 @ 3' (40.442592 / -104.536792)	02/22/16	3	<0.050	<0.050	<0.050	<0.050	<0.175	<5.00	<50.0	0.284	7.88	0.96

COGCC = Colorado Oil and Gas Conservation Commission  
 mg/kg = milligrams per kilogram  
 mmhos/cm = millimhos per centimeter  
 TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics  
 TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics  
 SAR = Sodium Adsorption Ratio  
 Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**PETRIKIN #A34-6,11,12**  
**WATER VAULT REMOVAL**  
**40.442592 / -104.536769**  
**SE¼ NW¼ SEC.34 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13726, 05-123-13530, 05-123-13728**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
GW-01 (40.442592 / -104.53669)	02/22/16	<4.0	<4.0	<4.0	<4.0
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.					



## **ATTACHMENT A**

### **Laboratory Analytical Reports**



February 29, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Petrikin #A 34-6,11,12

Project Number - [none]

Attached are your analytical results for Noble - Petrikin #A 34-6,11,12 received by Origins Laboratory, Inc. February 22, 2016. This project is associated with Origins project number X602254-01.

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

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Petrikin #A 34-6,11,12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-04 @ 3'	X602254-01	Soil	February 22, 2016 16:20	02/22/2016 17:50

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.*

Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X602254

Client: Eagle

Client Project ID: Petrikin #A34-6,11,12

Checklist Completed by: Jefe Smith

Shipped Via: HTD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/22/16

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.6 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe)  / \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		PH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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.

Jefe Smith  
 Reviewed by (Project Manager)

2/22/16  
 Date/Time Reviewed

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.

Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**SS-04 @ 3'**  
**2/22/2016 4:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X602254-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6B2213	02/22/2016	02/22/2016	U
<i>Surrogate: o-Terphenyl</i>	76.6 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6B2214	02/22/2016	02/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Napthalene	ND	0.175	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.7 %	70-130			"	"	"	

**Metals by 6010**

Calcium	27.00		me/L	1	'[none]'	02/24/2016	02/26/2016	
Magnesium	10.50		"	"	"	"	"	
Sodium	4.15		"	"	"	"	"	

**pH in Soil by EPA 9045D**

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**SS-04 @ 3'**  
**2/22/2016 4:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**X602254-01 (Soil)**

**pH in Soil by EPA 9045D**

pH	7.88		pH Units	1	B6B2203	02/22/2016	02/22/2016	
----	------	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	0.96			1	'[none]'	02/24/2016	02/26/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.284		mmhos/cm	1	B6B2204	02/22/2016	02/22/2016	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

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

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

**Batch B6B2214 - EPA 5030 (soil)**

**Blank (B6B2214-BLK1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

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

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

**Batch B6B2214 - EPA 5030 (soil)**

**LCS (B6B2214-BS1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Benzene	0.109	0.002	mg/kg	0.100		109	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.102	0.002	"	0.100		102	70-130			
m,p-Xylene	0.200	0.004	"	0.200		100	70-130			
o-Xylene	0.101	0.002	"	0.100		101	70-130			
Naphthalene	0.120	0.007	"	0.100		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

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

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

Batch B6B2214 - EPA 5030 (soil)

Matrix Spike (B6B2214-MS1)	Source: X602253-01			Prepared: 02/22/2016 Analyzed: 02/22/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130			
Toluene	0.091	0.002	"	0.100	ND	91.1	70-130			
Ethylbenzene	0.107	0.002	"	0.100	ND	107	70-130			
m,p-Xylene	0.216	0.004	"	0.200	ND	108	70-130			
o-Xylene	0.108	0.002	"	0.100	ND	108	70-130			
Naphthalene	0.108	0.007	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	53		"	62.5		85.0	70-130			
Surrogate: 4-Bromofluorobenzene	75		"	62.5		120	70-130			

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Eagle Environmental Consulting, Inc.  
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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

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

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

Batch B6B2214 - EPA 5030 (soil)

Matrix Spike Dup (B6B2214-MSD1)	Source: X602253-01			Prepared: 02/22/2016 Analyzed: 02/22/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	0.185	20	
Toluene	0.108	0.002	"	0.100	ND	108	70-130	17.3	20	
Ethylbenzene	0.104	0.002	"	0.100	ND	104	70-130	2.33	20	
m,p-Xylene	0.209	0.004	"	0.200	ND	105	70-130	3.18	20	
o-Xylene	0.100	0.002	"	0.100	ND	100	70-130	7.66	20	
Naphthalene	0.123	0.007	"	0.100	ND	123	70-130	12.9	20	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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.

Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

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

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

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

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

**Batch B6B2213 - EPA 3580**

**Blank (B6B2213-BLK1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
------------------	----	------	-------	--	--	--	--	--	--	---

Surrogate: o-Terphenyl

44			"	50.0		87.8	59-131			
----	--	--	---	------	--	------	--------	--	--	--

**LCS (B6B2213-BS1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	856	50.0	mg/kg	1000		85.6	64-121			
------------------	-----	------	-------	------	--	------	--------	--	--	--

Surrogate: o-Terphenyl

42			"	50.0		84.3	59-131			
----	--	--	---	------	--	------	--------	--	--	--

**Matrix Spike (B6B2213-MS1)**

**Source: X602253-01**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	53-125			
------------------	-----	------	-------	------	----	------	--------	--	--	--

Surrogate: o-Terphenyl

38			"	50.0		76.7	59-131			
----	--	--	---	------	--	------	--------	--	--	--

**Matrix Spike Dup (B6B2213-MSD1)**

**Source: X602253-01**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	880	50.0	mg/kg	1000	ND	88.0	53-125	2.77	20	
------------------	-----	------	-------	------	----	------	--------	------	----	--

Surrogate: o-Terphenyl

44			"	50.0		87.2	59-131			
----	--	--	---	------	--	------	--------	--	--	--

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6B2203 - NO PREP</b>										
<b>Duplicate (B6B2203-DUP1)</b>		<b>Source: X602220-05</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	7.86		pH Units		7.56			3.89	25	
<b>Duplicate (B6B2203-DUP2)</b>		<b>Source: X602253-01</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	8.02		pH Units		8.72			8.36	25	
<b>Batch B6B2204 - NO PREP</b>										
<b>Blank (B6B2204-BLK1)</b>		Prepared: 02/22/2016 Analyzed: 02/22/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
<b>Duplicate (B6B2204-DUP1)</b>		<b>Source: X602220-05</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Specific Conductance (EC)	0.0661		mmhos/cm		0.0668			1.05	25	

Origins Laboratory, Inc.



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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Petrikin #A 34-6,11,12

---

**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



February 23, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Petrikin #A 34-6,11,12

Project Number - [none]

Attached are your analytical results for Noble - Petrikin #A 34-6,11,12 received by Origins Laboratory, Inc. February 22, 2016. This project is associated with Origins project number X602255-01.

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

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Petrikin #A 34-6,11,12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	X602255-01	Water	February 22, 2016 15:50	02/22/2016 17:50

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X602255

Client: Eagle

Client Project ID: Petrikin #A34-6,11,12

Checklist Completed by: Jeff Smith

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/22/16

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.6 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		X		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	X			✓
Additional Comments (if any):				

<sup>(1)</sup>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.

Jeff Smith  
 Reviewed by (Project Manager)

2/22/16  
 Date/Time Reviewed

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**GW-01**  
**2/22/2016 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X602255-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.0	ug/L	4	B6B2201	02/22/2016	02/22/2016	U
Toluene	ND	4.0	"	"	"	"	"	U
Ethylbenzene	ND	4.0	"	"	"	"	"	U
Xylenes, total	ND	4.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6B2201 - EPA 5030B (Water)**

**Blank (B6B2201-BLK1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Benzene	ND	1.0	ug/L							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.9		84-121			
Surrogate: Toluene-d8	60		"	62.5	96.8		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.1		84-114			

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6B2201 - EPA 5030B (Water)**

**LCS (B6B2201-BS1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Benzene	57.8	1.0	ug/L	50.0		116	73.3-129			
Toluene	57.6	1.0	"	50.0		115	76.2-123			
Ethylbenzene	59.9	1.0	"	50.0		120	73.6-130			
m,p-Xylene	119	2.0	"	100		119	76.1-126			
o-Xylene	57.8	1.0	"	50.0		116	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114			

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 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6B2201 - EPA 5030B (Water)

Matrix Spike (B6B2201-MS1)	Source: X602214-01			Prepared: 02/22/2016 Analyzed: 02/22/2016						
Benzene	58.4	1.0	ug/L	50.0	ND	117	74-130			
Toluene	57.9	1.0	"	50.0	ND	116	73-131			
Ethylbenzene	56.6	1.0	"	50.0	ND	113	76-132			
m,p-Xylene	114	2.0	"	100	ND	114	69-139			
o-Xylene	55.1	1.0	"	50.0	ND	110	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

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 Project Number: [none]  
 Project: Noble - Petrikin #A 34-6,11,12

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6B2201 - EPA 5030B (Water)**

Matrix Spike Dup (B6B2201-MSD1)	Source: X602214-01			Prepared: 02/22/2016 Analyzed: 02/22/2016						
Benzene	58.6	1.0	ug/L	50.0	ND	117	74-130	0.274	20	
Toluene	57.5	1.0	"	50.0	ND	115	73-131	0.728	20	
Ethylbenzene	60.0	1.0	"	50.0	ND	120	76-132	5.87	20	
m,p-Xylene	120	2.0	"	100	ND	120	69-139	4.49	20	
o-Xylene	57.8	1.0	"	50.0	ND	116	74-131	4.83	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President