



FIGURES

Figure 1: Groundwater Analytical Map (11/13/19)

Figure 2: Groundwater Elevation Map (11/13/19)



LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- - - INITIAL EXCAVATION BOUNDARIES
- - - APPROXIMATE EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS
- ⊕ DESTROYED (DES) MONITORING WELL LOCATIONS

PARAMETERS

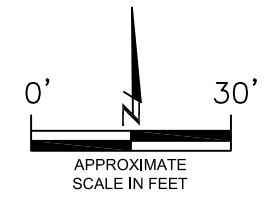
SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION



GROUNDWATER ANALYTICAL MAP
(11/13/19)
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.2695761 / -104.797120
SW1/4 NE1/4 SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDIAION # 12471

NOTE: FACILITIES HAVE BEEN REMOVED FROM THE SITE DURING DECOMMISSIONING ACTIVITIES. ONLY THE METER HOUSES REMAIN ON SITE AS OF 03/05/19 – DCP UTILITY LINES OBSERVED DURING INITIAL ASSESSMENT ACTIVITIES.

DATE:
11/21/19
DRAWN BY:
or
FIG.
NO. 1



EAGLE ENVIRONMENTAL CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



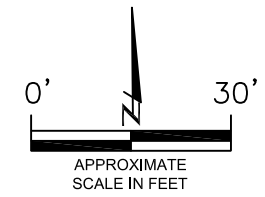
NOTE: FACILITIES HAVE BEEN REMOVED FROM THE SITE DURING DECOMMISSIONING ACTIVITIES. ONLY THE METER HOUSES REMAIN ON SITE AS OF 03/05/19 – DCP UTILITY LINES OBSERVED DURING INITIAL ASSESSMENT ACTIVITIES.

LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- - - INITIAL EXCAVATION BOUNDARIES
- - - APPROXIMATE EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS
- ⊕ (DES) DESTROYED (DES) MONITORING WELL LOCATIONS
- (87.31) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- ↗ APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA WAS COLLECTED 11/13/19.



GROUNDWATER ELEVATION MAP
(11/13/19)
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW1/4 NE1/4 SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12471

DATE:
11/21/19
DRAWN BY:
or
FIG.
NO. 2



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



TABLES

Table 1: Groundwater Analytical Results Summary

Table 2: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW¼ NE¼ SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12471

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
GW-01 (40.269576 / -104.797125)	02/21/19	8250	<4.00	898	8890
MW-01 (40.269582 / -104.797111)	04/09/19	255	<1.00	99.3	1390
	06/24/19	DES			
MW-01R (40.269582 / -104.797111)	11/13/19	1340	<4.00	564	319
MW-02 (40.269667 / -104.797065)	04/09/19	475	<1.00	116	482
	06/24/19	DES			
MW-02R (40.269667 / -104.797065)	11/13/19	46.8	<4.00	4.60	24.8
MW-03 (40.269580 / -104.796995)	04/09/19	438	<1.00	175	2740
	06/24/19	DES			
MW-03R (40.269580 / -104.796995)	11/13/19	19.0	<4.00	<4.00	627
MW-04 (40.269496 / -104.797073)	04/09/19	1990	<1.00	480	2720
	06/24/19	DES			
MW-04R (40.269496 / -104.797073)	11/13/19	22.2	<4.00	<4.00	961
MW-05 (40.269534 / -104.797222)	04/09/19	<4.00	<4.00	76.6	583
	06/24/19	DES			
MW-05R (40.269534 / -104.797222)	11/13/19	<4.00	<4.00	<4.00	381
MW-06 (40.269640 / -104.797210)	04/09/19	<1.00	<1.00	69.9	1650
	06/24/19	DES			
MW-06R (40.269640 / -104.797210)	11/13/19	DES			

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.
Values presented in **bold** typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).
DES - Destroyed



**TABLE 2
GROUNDWATER ELEVATION SUMMARY
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW¼ NE¼ SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDIAION # 12471**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet) (TOC)	Depth to Groundwater (feet)(bgs)	Stick Up Height (feet)
MW-01 (40.269582 / -104.797111)	04/09/19	99.54	11.28	88.26	8.79	2.49
	06/24/19	DES				
MW-01R (40.269582 / -104.797111)	11/13/19	99.90	10.73	89.17	7.52	3.21
MW-02 (40.269667 / -104.797065)	04/09/19	99.72	11.60	88.12	8.90	2.70
	06/24/19	DES				
MW-02R (40.269667 / -104.797065)	11/13/19	99.86	10.64	89.22	7.39	3.25
MW-03 (40.269580 / -104.796995)	04/09/19	98.90	10.61	88.29	8.55	2.06
	06/24/19	DES				
MW-03R (40.269580 / -104.796995)	11/13/19	99.88	10.24	89.64	7.01	3.23
MW-04 (40.269496 / -104.797073)	04/09/19	100.00	11.53	88.47	8.90	2.63
	06/24/19	DES				
MW-04R (40.269496 / -104.797073)	11/13/19	100.00	10.29	89.71	7.18	3.11
MW-05 (40.269534 / -104.797222)	04/09/19	99.67	11.41	88.26	8.89	2.52
	06/24/19	DES				
MW-05R (40.269534 / -104.797222)	11/13/19	99.86	10.82	89.04	7.57	3.25
MW-06 (40.269640 / -104.797210)	04/09/19	99.57	11.44	88.13	8.95	2.49
	06/24/19	DES				
MW-06R (40.269640 / -104.797210)	11/13/19	DES				
Notes: bgs- below ground surface TOC - Top of Casing DES - Destroyed						





ATTACHMENT A

Boring Logs/Well Completion Diagrams

New Wells Only (MW-01R thru MW-06R)

Boring Log/Well Completion Diagram: MW-01R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-7') Backfill	FL	DP	1	70	1.2	N/A			
5						1.3				
7-12'	sandy CLAY - brown, wet, soft to medium stiff, moderate plasticity, well-graded with ~20-30% fine grained sand	CL	DP	2	80	46.1	N/A			
10	@7-13' - weathered staining, strong HC odor					946.2				
12-15'	clayey SAND - light brown, wet, medium dense, fine to medium grained, well-graded with ~30% clay @11' - N/O, N/S	SC	DP	3	100	733.7	N/A			
15						46.1				
15	BoB @ 15'									

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19	SAND PACK INTERVAL (FEET): 3-15
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17	BENTONITE/GROUT INTERVAL (FEET): 0-3
LOGGED BY: G. CONGDON	WELL SCREEN INTERVAL (FEET): 5-15
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15
PID INSTRUMENT: MINIRAE 3000 - #13	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1022/1038	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	

Boring Log/Well Completion Diagram: MW-02R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-13') sandy CLAY - light brown, dry to wet, soft to medium stiff, moderate plasticity, well graded with 30-40% fine grained sand	CL	DP	1	50	1.9	N/A	0		
5						2.4				
7-12'	@7-12' - weathered staining, slight HC odor	CL	DP	2	70	5.6	N/A	5		
7'	@7' - wet					849.8				
10	(13-15') clayey SAND - light brown, wet, loose to medium dense, fine to medium grained, well-graded with ~30% clay, N/O, N/S	SC	DP	3	80	622.5	N/A	10		
15						10.4				
15	BoB @ 15'									
20										
25										
30										

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19		SAND PACK INTERVAL (FEET): 3-15	
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17		BENTONITE/GROUT INTERVAL (FEET): 0-3	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MINIRAE 3000 - #10			
TIME STARTED/COMPLETED: 0907/0925			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

Boring Log/Well Completion Diagram: MW-03R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') clayey SAND - brown, dry to wet, medium dense, fine to medium grained, well-graded with 130% clay, N/O, N/S	SC	DP	1	50	3.9	N/A	0		
5						3.8				
7-12'	(7-12') sandy CLAY - light brown, wet, stiff to medium stiff, moderate plasticity, well-graded with ~30% fine grained sand @7-12' - weathered staining, slight HC odor	CL	DP	2	60	5.9	N/A	7-12'		
10						701				
12-15'	(12-15') clayey SAND - light brown, wet, medium dense to dense, fine to medium grained, well-graded with ~40% clay, N/O N/S	SC	DP	3	100	432.2	N/A	12-15'		
15						55.1				
15	BoB @ 15'									
20										
25										
30										

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19		SAND PACK INTERVAL (FEET): 3-15	
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17		BENTONITE/GROUT INTERVAL (FEET): 0-3	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MINIRAE 3000 - #10			
TIME STARTED/COMPLETED: 0932/0948			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

Boring Log/Well Completion Diagram: MW-04R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') Backfill					6.0	N/A			
		FL	DP	1	80	4.8				
5	(7-9') sandy CLAY - brown, wet, medium stiff to stiff, low to moderate plasticity, well-graded with ~30% fine grained sand @7-12' - black staining, slight HC odor					12.2	N/A			
		CL	DP	2	80	574.1				
10	(9-12') clayey SAND - brown, wet, dense, fine to medium grained, well-graded with ~30-40% clay					177.7	N/A			
	(12-15') sandy CLAY - light brown, wet, medium stiff, moderate plasticity, well-graded with ~20-30% fine grained sand, N/O N/S	CL	DP	3	100	15.9				
15	BoB @ 15'									
20										
25										
30										

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19		SAND PACK INTERVAL (FEET): 3-15	
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17		BENTONITE/GROUT INTERVAL (FEET): 0-3	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MINIRAE 3000 - #10			
TIME STARTED/COMPLETED: 0959/1016			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			

Boring Log/Well Completion Diagram: MW-05R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9') clayey SAND - brown, dry to wet, medium dense, fine to medium grained, well-graded with ~20-30% clay, N/O, N/S	SC	DP	1	60	16.6	N/A	0-5		
5	@7' - wet					2.5				
10	(9-15') sandy CLAY - brown, wet, medium stiff, moderate plasticity, well-graded with ~20% fine grained sand @9-12' - black staining, slight HC odor	CL	DP	2	80	1.4	N/A	5-10		
15	@12' - N/O, N/S					61.7				
15	BoB @ 15'					175.3	N/A	10-15		
20						26.2		15-30		

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19	SAND PACK INTERVAL (FEET): 3-15
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17	BENTONITE/GROUT INTERVAL (FEET): 0-3
LOGGED BY: G. CONGDON	WELL SCREEN INTERVAL (FEET): 5-15
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 1
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15
PID INSTRUMENT: MINIRAE 3000 - #10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1043/1058	
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A	

Boring Log/Well Completion Diagram: MW-06R

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') clayey SAND - brown, dry to wet, medium dense, fine to medium grained, well-graded with ~20% clay, N/O, N/S	SC	DP	1	70	1.6	N/A	0		
5	(7-15') sandy CLAY - brown, wet, medium stiff, moderate plasticity, well-graded with ~20-30% fine grained sand @8-13' - weathered staining, slight HC odor					0.3				
10	@13' - N/O, N/S	620.6	DP	3	100	33.0	10			
15	BoB @ 15'									
20							20			
25							25			
30							30			

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 11/06/19		SAND PACK INTERVAL (FEET): 3-15	
PROJECT: AGRICULTURAL PRODUCTS FEDERAL #32-17		BENTONITE/GROUT INTERVAL (FEET): 0-3	
LOGGED BY: G. CONGDON		WELL SCREEN INTERVAL (FEET): 5-15	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 15	WELL DEPTH (FEET): 15	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 West 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MINIRAE 3000 - #10			
TIME STARTED/COMPLETED: 1110/1123			
SAMPLE COLLECTION DEPTH (FEET)/TIME: N/A			



ATTACHMENT B

Laboratory Analytical Report

November 19, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Agricultural Products
Federal #32-17**

Project Number - [none]

Attached are your analytical results for Noble - Agricultural Products Federal #32-17 received by Origins Laboratory, Inc. November 13, 2019. This project is associated with Origins project number Y911220-01.

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



Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Agricultural Products Federal
#32-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y911220-01	Water	November 13, 2019 10:25	11/13/2019 14:48
MW-02R	Y911220-02	Water	November 13, 2019 10:50	11/13/2019 14:48
MW-03R	Y911220-03	Water	November 13, 2019 10:35	11/13/2019 14:48
MW-04R	Y911220-04	Water	November 13, 2019 10:38	11/13/2019 14:48
MW-05R	Y911220-05	Water	November 13, 2019 10:20	11/13/2019 14:48

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y971220

Client: Eagle

Client Project ID: Ag Products Federal 32-1

Checklist Completed by: JG

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

Date/time completed: 11/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.1 °C _____ / _____ °C _____ / _____ °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>		
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" 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) JG

Date/Time Reviewed 11/15/19

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

MW-01R

11/13/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911220-01 (Water)

BTEX by EPA 8260D

Benzene	1340	50.0	ug/L	50	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	4.00	"	4	"	KDK	"	11/18/2019	U
Ethylbenzene	564	4.00	"	"	"	KDK	"	"	
Xylenes, total	319	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"		"	
Surrogate: Toluene-d8	89.2 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	112 %	70-130			"	"		"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

MW-02R

11/13/2019 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911220-02 (Water)

BTEX by EPA 8260D

Benzene	46.8	4.00	ug/L	4	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.60	4.00	"	"	"	KDK	"	"	
Xylenes, total	24.8	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

MW-03R

11/13/2019 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911220-03 (Water)

BTEX by EPA 8260D

Benzene	19.0	4.00	ug/L	4	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	627	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	70-130			"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

MW-04R

11/13/2019 10:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911220-04 (Water)

BTEX by EPA 8260D

Benzene	22.2	4.00	ug/L	4	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	961	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Martin C Eckert III
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 Project: Noble - Agricultural Products Federal #32-17

MW-05R

11/13/2019 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911220-05 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9K1405	KDK	11/14/2019	11/18/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	381	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"		
Surrogate: Toluene-d8	93.3 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"		

Origins Laboratory, Inc.



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 Project: Noble - Agricultural Products Federal #32-17

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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Batch B9K1405 - EPA 5030B (Water)

Blank (B9K1405-BLK1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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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Batch B9K1405 - EPA 5030B (Water)

LCS (B9K1405-BS1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

Benzene	54.8	1.00	ug/L	50.0		110	70-130			
Toluene	56.0	1.00	"	50.0		112	70-130			
Ethylbenzene	55.8	1.00	"	50.0		112	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	56.4	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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Martin C Eckert III
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 Project: Noble - Agricultural Products Federal #32-17

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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Batch B9K1405 - EPA 5030B (Water)

Matrix Spike (B9K1405-MS1)	Source: Y911222-06			Prepared: 11/14/2019 Analyzed: 11/16/2019						
Benzene	46.4	1.00	ug/L	50.0	ND	92.9	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	48.0	1.00	"	50.0	ND	96.1	70-130			
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130			
o-Xylene	47.3	1.00	"	50.0	0.080	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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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Batch B9K1405 - EPA 5030B (Water)

Matrix Spike Dup (B9K1405-MSD1)	Source: Y911222-06				Prepared: 11/14/2019 Analyzed: 11/16/2019						
Benzene	45.0	1.00	ug/L	50.0	ND	90.0	70-130	3.17	20		
Toluene	48.6	1.00	"	50.0	ND	97.1	70-130	4.23	20		
Ethylbenzene	47.6	1.00	"	50.0	ND	95.2	70-130	0.899	20		
m,p-Xylene	92.3	2.00	"	100	ND	92.3	70-130	2.03	20		
o-Xylene	47.1	1.00	"	50.0	0.080	94.0	70-130	0.551	20		
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130				
Surrogate: Toluene-d8	63		"	62.5		100	70-130				
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130				

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Agricultural Products Federal
#32-17

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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