



FIGURES

Figure 1: Groundwater Analytical Map (06/21/19)

Figure 2: Groundwater Elevation Map (06/21/19)

Figure 3: Grab Surface Water Sample Location Map (06/21/19)



MW-03R
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-13R2
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-17R
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-12
06/21/19
B = **5.70**
T = <4.00
E = <4.00
X = <4.00

MW-16R
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-11R
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-09R2
06/21/19
B = <1.00
T = <1.00
E = <1.00
X = <1.00

MW-07R2
06/21/19
B = **6.03**
T = <1.00
E = <1.00
X = <1.00

- LEGEND**
- APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
 - APPROXIMATE FLOW LINE LOCATION
 - APPROXIMATE MONITORING WELL LOCATIONS
 - DESTROYED MONITORING WELL LOCATIONS

PARAMETERS

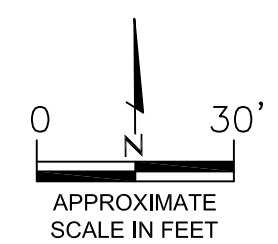
SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



GROUNDWATER ANALYTICAL MAP
(06/21/19)
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

DATE
08/12/19

FIG. NO. 1
DRAWN BY KTP

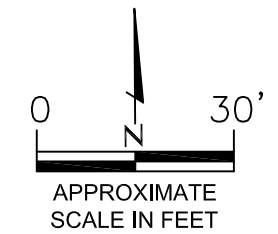
EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



- LEGEND**
- APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
 - APPROXIMATE FLOW LINE LOCATION
 - APPROXIMATE MONITORING WELL LOCATIONS
 - DESTROYED MONITORING WELL LOCATIONS
 - (4748.25)** GROUNDWATER ELEVATION (FT.)
 - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
 GROUNDWATER ELEVATION DATA WAS COLLECTED ON 06/21/19.
 GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELL
 MW-13R2 WAS NOT USED IN THE CONSTRUCTION OF INFERRED
 GROUNDWATER ELEVATION CONTOURS. MONITORING WELLS MW-01R3,
 MW-05R2, AND MW-14R2 WERE OBSERVED DESTROYED.



GROUNDWATER ELEVATION MAP
 (06/21/19)
 WARDLAW #20-28
 FLOW LINE RELEASE
 40.452377 / -104.550395
 SE1/4 SE1/4 SEC.28 T6N R64W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 10185

DATE	08/12/19
FIG. NO.	2
DRAWN BY	KTP

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SW-01	SW-01	SW-01	SW-01
09/12/18	12/07/18	03/21/19	06/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-02	SW-02	SW-02	SW-02
09/12/18	12/07/18	03/21/19	06/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-04	SW-04	SW-04	SW-04
09/12/18	12/07/18	03/21/19	06/21/19
B = <1.00	B = <1.00	B = <1.00	B = <1.00
T = <1.00	T = <1.00	T = <1.00	T = <1.00
E = <1.00	E = <1.00	E = <1.00	E = <1.00
X = <1.00	X = <1.00	X = <1.00	X = <1.00

SW-03 (NOP)
 SW-05 (NOP)
 SW-06 (NOP)
 SW-07 (NOP)
 SW-08 (NOP)
 SW-09 (NOP)

LEGEND

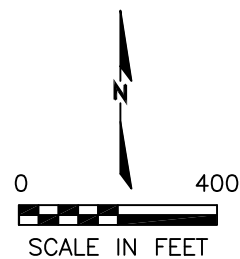
- X APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
- WELL HEAD LOCATION
- APPROXIMATE LOCATION OF SURFACE WATER SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- (NOP) NOT ON PLAN

PARAMETERS

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

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

µg/L = MICROGRAMS PER LITER



GRAB SURFACE WATER SAMPLE LOCATION MAP
 (06/21/19)
 WARDLAW #20-28
 FLOW LINE RELEASE
 40.452377 / -104.550395
 SE1/4 SE1/4 SEC.28 T6N R64W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 10185

DATE: 08/12/19

FIG. NO. 3

DRAWN BY:
 KTP



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TABLES

Table 1: Water Analytical Results Summary

Table 2: Groundwater Elevation Summary

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185

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
SW-01 (40.452432487 / -104.550326268)	02/09/17	<1.00	2.54	<1.00	2.58
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	12/07/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
06/21/19	<1.00	<1.00	<1.00	<1.00	
SW-02 (40.451283697 / -104.550667387)	02/09/17	100	514	54.9	659
	02/13/17	11.3	83.8	9.64	240
	02/20/17	<1.00	<1.00	<1.00	3.18
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	12/07/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
06/21/19	<1.00	<1.00	<1.00	<1.00	
SW-03 (40.451208284 / -104.550759293)	02/09/17	90.7	459	48.8	605
	02/10/17	6.24	40.2	4.92	109
	02/13/17	8.52	42.8	4.36	152
	02/20/17	<1.00	<1.00	<1.00	2.45
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185

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
SW-04 (40.450779462 / -104.551161230)	02/10/17	4.92	28.4	<4.00	90.9
	02/13/17	6.80	32.0	<4.00	147
	02/20/17	<1.00	<1.00	<1.00	1.49
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	12/07/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
06/21/19	<1.00	<1.00	<1.00	<1.00	
SW-05 (40.449982352 / -104.551611892)	02/10/17	<4.00	8.20	<4.00	73.8
	02/13/17	<1.00	1.06	<1.00	22.8
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			
SW-06 (40.449897202 / -104.551692223)	02/10/17	<4.00	<4.00	<4.00	16.5
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			
SW-07 (40.449690628 / -104.551677355)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185

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
SW-08 (40.448928873 / -104.551685603)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			
SW-09 (40.448299817 / -104.551680172)	02/10/17	<4.00	<4.00	<4.00	<4.00
	02/13/17	<1.00	<1.00	<1.00	<1.00
	02/20/17	<1.00	<1.00	<1.00	<1.00
	03/17/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	NOP			
GW-01	02/11/17	434	1560	138	1530
MW-01 (40.452393003 / -104.550433142)	03/27/17	188	<4.00	12.6	327
	06/15/17	614	<1.00	<1.00	2.26
	09/14/17	DES			
	12/12/17	DES			
MW-01R (40.452393003 / -104.550433142)	03/13/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-01R2 (40.452393003 / -104.550433142)	06/13/18	198	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-01R3 (40.452393003 / -104.550433142)	12/07/18	DRY			
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	DES			
MW-02 (40.452504816 / -104.550455313)	03/30/17	<1.00	<1.00	6.58	43.4
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			

**TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIAION # 10185**

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
MW-03 (40.452454447 / -104.550546129)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-03R (40.452454447 / -104.550546129)	12/07/18	<1.00	27.4	5.01	32.5
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	<1.00	<1.00	<1.00	<1.00
MW-04 (40.452342502 / -104.550577837)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-05 (40.452208431 / -104.550603406)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	<1.00	<1.00	<1.00	<1.00
	06/13/18	DES			
MW-05R (40.452208431 / -104.550603406)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-05R2 (40.452208431 / -104.550603406)	12/07/18	<1.00	<1.00	33.4	258
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	DES			
MW-06 (40.452070696 / -104.550630887)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/13/18	1.39	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-07 (40.452002981 / -104.55055025)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-07R (40.452002981 / -104.55055025)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	11/01/18	DES			
MW-07R2 (40.452002981 / -104.55055025)	12/07/18	64.5	<1.00	12.7	92.9
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	6.03	<1.00	<1.00	<1.00

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185

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
MW-08 (40.451924937 / -104.550467803)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-09 (40.452077465/-104.550441169)	03/27/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	3.15	<1.00	<1.00	<1.00
	12/12/17	1.47	<1.00	<1.00	<1.00
	03/16/18	1.09	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-09R (40.452077465/-104.550441169)	06/13/18	1.07	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-09R2 (40.452077465/-104.550441169)	12/07/18	<1.00	<1.00	<1.00	2.11
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	<1.00	<1.00	<1.00	<1.00
MW-10 (40.452207178/-104.55040854)	03/28/17	<4.00	<4.00	<4.00	<4.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-11 (40.452321549/-104.550383609)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-11R (40.452321549/-104.550383609)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	<1.00	<1.00	<1.00	<1.00
MW-12 (40.45239442/-104.550368154)	03/30/17	210	480	19.8	424
	06/13/17	2120	5560	251	3510
	09/14/17	1310	<1.00	52.3	344
	12/12/17	220	<1.00	31.6	24.7
	03/16/18	95.7	<4.00	5.60	<4.00
	06/13/18	96.1	<4.00	4.08	<4.00
	09/12/18	137	<1.00	12.4	<1.00
	12/07/18	10.9	<4.00	<4.00	<4.00
	03/21/19	9.00	<4.00	<4.00	<4.00
	06/21/19	5.70	<1.00	<1.00	<1.00

**TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185**

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
MW-13 (40.452664489 / -104.550339323)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/13/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	<1.00	<1.00	<1.00	<1.00
	12/12/17	<1.00	<1.00	<1.00	<1.00
	03/16/18	<1.00	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-13R (40.452664489 / -104.550339323)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	DES			
MW-13R2 (40.452664489 / -104.550339323)	12/07/18	<1.00	2.89	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	<1.00	<1.00	<1.00	<1.00
MW-14 (40.452664489/-104.550339323)	03/28/17	<4.00	<4.00	<4.00	<4.00
	06/15/17	96.0	<1.00	<1.00	23.6
	09/14/17	73.6	<1.00	<1.00	<1.00
	12/12/17	16.3	<1.00	<1.00	<1.00
	03/16/18	6.02	<1.00	<1.00	<1.00
	05/15/18	DES			
MW-14R (40.452664489/-104.550339323)	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	2.09	<1.00	<1.00	<1.00
	11/01/18	DES			
MW-14R2 (40.452664489/-104.550339323)	12/07/18	<1.00	<1.00	1.03	7.40
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	DES			
MW-15 (40.452232004/-104.550269649)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	DES			
MW-16 (40.452334255/-104.550243785)	03/30/17	<1.00	<1.00	<1.00	<1.00
	06/15/17	<1.00	<1.00	<1.00	<1.00
	09/14/17	DES			
MW-16R (40.452334255/-104.550243785)	03/16/18	<1.00	<1.00	<1.00	1.38
	06/13/18	<1.00	<1.00	<1.00	<1.00
	09/12/18	<1.00	<1.00	<1.00	<1.00
	12/07/18	<1.00	<1.00	<1.00	<1.00
	03/21/19	<1.00	<1.00	<1.00	<1.00
	06/21/19	<1.00	<1.00	<1.00	<1.00

**TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-01 (40.452393003 / -104.550433142)	03/28/17	98.78	7.74	91.04	4.88	2.86
	06/15/17		7.20	91.58	4.34	
	09/14/17			DES		
MW-01R (40.452393003 / -104.550433142)	03/13/18	99.15	7.29	91.86	4.23	3.06
	05/15/18			DES		
MW-01R2 (40.452393003 / -104.550433142)	06/13/18	98.45	5.79	92.66	2.76	3.03
	09/12/18			DES		
MW-01R3 (40.452393003 / -104.550433142)	12/07/18	96.29		DRY		
	03/21/19		3.31	92.98	NA	NA
	06/21/19			DES		
MW-02 (40.452504816 / -104.550455313)	03/28/17	99.22	NM	NA	NA	2.92
	03/30/17		9.83	89.39	6.91	
	06/13/17		5.54	93.68	2.62	
	09/14/17		5.41	93.81	2.49	
	12/12/17		6.04	93.18	3.12	
	03/13/18		5.99	93.23	3.07	
	05/15/18			DES		
MW-03 (40.452454447 / -104.550546129)	03/28/17	99.62	NM	NA	NA	3.10
	03/30/17		12.97	86.65	9.87	
	06/13/17		6.00	93.62	2.90	
	09/14/17		5.89	93.73	2.79	
	12/12/17		6.53	93.09	3.43	
	03/13/18		6.48	93.14	3.38	
	06/13/18	98.22	4.25	95.37	1.15	
	09/12/18			DES		
MW-03R (40.452454447 / -104.550546129)	12/07/18	96.75	8.21	88.54	NA	NA
	03/21/19		3.68	93.07	NA	NA
	06/21/19		2.21	94.54	NA	NA
MW-04 (40.452342502 / -104.550577837)	03/28/17	99.20	6.78	92.42	3.80	2.98
	06/13/17		6.00	93.20	3.02	
	09/14/17		5.86	93.34	2.88	
	12/12/17		6.50	92.70	3.52	
	03/13/18		6.51	92.69	3.53	
	05/15/18			DES		
MW-05 (40.452208431 / -104.550603406)	03/28/17	98.64	6.63	92.01	3.63	3.00
	06/13/17		6.05	92.59	3.05	
	09/14/17		5.93	92.71	2.93	
	12/12/17		6.49	92.15	3.49	
	03/13/18		6.56	92.08	3.56	
	05/15/18			DES		
MW-05R (40.452208431 / -104.550603406)	06/13/18	98.42	5.86	92.56	3.14	2.72
	09/12/18			DES		
MW-05R2 (40.452208431 / -104.550603406)	12/07/18	96.08	10.95	85.13	NA	NA
	03/21/19		3.62	92.46	NA	NA
	06/21/19			DES		

**TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-06 (40.452070696 / -104.550630887)	03/28/17	98.38	6.44	91.94	3.49	2.95
	06/13/17		6.04	92.34	3.09	
	09/14/17		5.93	92.45	2.98	
	12/12/17		6.42	91.96	3.47	
	03/13/18		6.52	91.86	3.57	
	05/15/18		DES			
MW-07 (40.452002981 / -104.55055025)	03/28/17	98.37	6.57	91.80	3.65	2.92
	06/15/17		6.66	91.71	3.74	
	09/14/17		6.56	91.81	3.64	
	12/12/17		6.91	91.46	3.99	
	03/13/18		7.04	91.33	4.12	
	05/15/18		DES			
MW-07R (40.452002981 / -104.55055025)	06/13/18	98.12	6.12	92.00	3.16	2.96
	09/12/18		5.47	92.65		
	11/01/18		DES			
MW-07R2 (40.452002981 / -104.55055025)	12/07/18	95.79	3.75	92.04	NA	NA
	03/21/19		3.53	92.26	NA	NA
	06/21/19		3.14	92.65	NA	NA
MW-08 (40.451924937 / -104.550467803)	03/28/17	98.32	6.60	91.72	3.89	2.71
	06/13/17		6.53	91.79	3.82	
	09/14/17		6.41	91.91	3.70	
	12/12/17		6.67	91.65	3.96	
	03/13/18		6.77	91.55	4.06	
	05/15/18		DES			
MW-09 (40.452077465 / -104.550441169)	03/28/17	98.78	7.14	91.64	4.48	2.66
	06/13/17		6.85	91.93	4.19	
	09/14/17		6.76	92.02	4.10	
	12/12/17		7.03	91.75	4.37	
	03/13/18		7.11	91.67	4.45	
	05/15/18		DES			
MW-09R (40.452077465 / -104.550441169)	06/13/18	98.96	7.40	91.56	4.32	3.08
	09/12/18		DES			
MW-09R2 (40.452077465 / -104.550441169)	12/07/18	99.25	7.24	92.01	NA	NA
	03/21/19		6.97	92.28	NA	NA
	06/21/19		6.86	92.39	NA	NA
MW-10 (40.452207178 / -104.55040854)	03/28/17	98.91	NM	NA	NA	2.83
	06/13/17		6.60	92.31	3.77	
	12/12/17		6.92	91.99	4.09	
	03/13/18		6.76	92.15	3.93	
	05/15/18		DES			
MW-11 (40.452321549 / -104.550383609)	03/28/17	99.27	NM	NA	NA	2.74
	06/13/17		6.64	92.63	3.90	
	09/14/17		6.38	92.89	3.64	
	12/12/17		7.11	92.16	4.37	
	03/13/18		6.96	92.31	4.22	
	05/15/18		DES			

**TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-11R (40.452321549 / -104.550383609)	06/13/18	99.24	12.34	86.90	9.44	2.90
	09/12/18		6.81	92.43	3.91	
	12/07/18		7.31	91.93	4.41	
	03/21/19		7.14	92.10	4.24	
	06/21/19		6.51	92.73	3.61	
MW-12 (40.45239442 / -104.550368154)	03/28/17	99.34	NM	NA	NA	2.71
	03/30/17		13.64	85.70	10.93	
	06/13/17		6.48	92.86	3.77	
	09/14/17		6.26	93.08	3.55	
	12/12/17		6.97	92.37	4.26	
	03/13/18		6.88	92.46	4.17	
	06/13/18		6.39	92.95	3.68	
	09/12/18		6.47	92.87	3.76	
	12/07/18		7.15	92.19	4.44	
	03/21/19		7.60	91.74	4.89	
	06/21/19		6.21	93.13	3.50	
MW-13 (40.452664489 / -104.550339323)	03/28/17	100.00	NM	NA	NA	2.64
	06/13/17		6.55	93.45	3.91	
	09/14/17		6.31	93.69	3.67	
	12/12/17		6.89	93.11	4.25	
	03/13/18		6.83	93.17	4.19	
	05/15/18		DES			
MW-13R (40.452664489 / -104.550339323)	06/13/18	100.45	10.61	89.84	7.79	2.82
	09/12/18		DES			
MW-13R2 (40.452664489 / -104.550339323)	12/07/18	95.91	14.25	81.66	NA	NA
	03/21/19		7.60	88.31	NA	NA
	06/21/19		6.88	89.03	NA	NA
MW-14 (40.452664489 / -104.550339323)	03/28/17	98.41	7.32	91.09	4.60	2.72
	06/15/17		6.60	91.81	3.88	
	09/14/17		6.48	91.93	3.76	
	12/12/17		7.08	91.33	4.36	
	03/13/18		7.11	91.30	4.39	
	05/15/18		DES			
MW-14R (40.452664489 / -104.550339323)	06/13/18	98.48	5.95	92.53	3.03	2.92
	09/12/18		5.59	92.89	2.67	
	11/01/18		DES			
MW-14R2 (40.452664489 / -104.550339323)	12/07/18	95.91	3.78	92.13	NA	NA
	03/21/19		3.32	92.59	NA	NA
	06/21/19		DES			
MW-15 (40.452232004 / -104.550269649)	03/28/17	99.54	NM	NA	NA	2.82
	06/15/17		7.33	92.21	4.51	
	09/14/17		DES			
MW-16 (40.452334255 / -104.550243785)	03/28/17	99.73	NM	NA	NA	2.86
	06/15/17		7.11	92.62	4.25	
	09/14/17		DES			

TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Depth to Groundwater (bgs) (feet)	Stickup Height (feet)
MW-16R (40.452334255 / -104.550243785)	03/13/18	100.29	7.90	92.39	4.68	3.22
	06/13/18		7.40	92.89	4.18	
	09/12/18		7.60	92.69	4.38	
	12/07/18		8.08	92.21	4.86	
	03/21/19		7.88	92.41	4.66	
	06/21/19		7.52	92.77	4.30	
MW-17 (40.452418346 / -104.55022411)	03/28/17	99.72	NM	NA	NA	2.75
	06/15/17		8.42	91.30	5.67	
	09/14/17	DES				
MW-17R (40.452418346 / -104.55022411)	03/13/18	100.08	7.61	92.47	4.63	2.98
	06/13/18		6.77	93.31	3.79	
	09/12/18		7.12	92.96	4.14	
	12/07/18		7.48	92.60	4.50	
	03/21/19		7.31	92.77	4.33	
	06/21/19		7.03	93.05	4.05	
NOTES: All wells completed as PVC stick ups. TOC = top of casing PVC = polyvinyl chloride NM = not measured bgs= below ground surface NA = not applicable DES = Destroyed INA - Inaccessible						



ATTACHMENT A

Laboratory Analytical Report



August 16, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wardlaw #20-28

Project Number - [none]

Attached are your analytical results for Noble - Wardlaw #20-28 received by Origins Laboratory, Inc. June 21, 2019. This project is associated with Origins project number Y906400-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wardlaw #20-28

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3R	Y906400-01	Water	June 21, 2019 13:36	06/21/2019 16:00
MW-07R2	Y906400-02	Water	June 21, 2019 12:58	06/21/2019 16:00
MW-09R2	Y906400-03	Water	June 21, 2019 12:50	06/21/2019 16:00
MW-11R	Y906400-04	Water	June 21, 2019 13:06	06/21/2019 16:00
MW-12	Y906400-05	Water	June 21, 2019 13:16	06/21/2019 16:00
MW-13R2	Y906400-06	Water	June 21, 2019 13:25	06/21/2019 16:00
MW-16R	Y906400-07	Water	June 21, 2019 13:52	06/21/2019 16:00
MW-17R	Y906400-08	Water	June 21, 2019 13:45	06/21/2019 16:00
SW-01	Y906400-09	Water	June 21, 2019 14:15	06/21/2019 16:00
SW-02	Y906400-10	Water	June 21, 2019 14:10	06/21/2019 16:00
SW-04	Y906400-11	Water	June 21, 2019 13:59	06/21/2019 16:00

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 - Wardlaw #20-28

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 190640

Client: Eagle
 Client Project ID: Wardlaw 20-28

Checklist Completed by: JG
 Date/time completed: 6/24/2019

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.8 °C _____ °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"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 type="checkbox"/>	<input checked="" 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 Na ₂ O 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) [Signature] Date/Time Reviewed 6/25/19

Origins Laboratory, Inc.

Jefe Pellegrini

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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 - Wardlaw #20-28

MW-3R

6/21/2019 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-07R2

6/21/2019 12:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-02 (Water)

BTEX by EPA 8260D

Benzene	6.03	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-09R2

6/21/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-11R

6/21/2019 1:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-12
6/21/2019 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-05 (Water)

BTEX by EPA 8260D

Benzene	5.70	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-13R2

6/21/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-16R

6/21/2019 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

MW-17R

6/21/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

SW-01

6/21/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

SW-02

6/21/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

SW-04

6/21/2019 1:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906400-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2601	JTD	06/26/2019	06/27/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Blank (B9F2601-BLK1)

Prepared: 06/26/2019 Analyzed: 06/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	59		"	62.5	94.0		70-130			
<i>Surrogate: Toluene-d8</i>	63		"	62.5	101		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	61		"	62.5	96.9		70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Blank (B9F2601-BLK2)

Prepared: 06/26/2019 Analyzed: 06/26/2019

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	60		"	62.5	95.3		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6		70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

LCS (B9F2601-BS1)

Prepared: 06/26/2019 Analyzed: 06/26/2019

Benzene	51.0	1.00	ug/L	50.0		102	70-130			
Toluene	52.8	1.00	"	50.0		106	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
o-Xylene	50.8	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

LCS (B9F2601-BS2)

Prepared: 06/26/2019 Analyzed: 06/26/2019

Benzene	47.1	1.00	ug/L	50.0		94.2	70-130			
Toluene	51.0	1.00	"	50.0		102	70-130			
Ethylbenzene	49.8	1.00	"	50.0		99.6	70-130			
m,p-Xylene	99.0	2.00	"	100		99.0	70-130			
o-Xylene	49.0	1.00	"	50.0		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Matrix Spike (B9F2601-MS1)	Source: Y906378-01			Prepared: 06/26/2019 Analyzed: 06/26/2019						
Benzene	50.6	1.00	ug/L	50.0	ND	101	70-130			
Toluene	55.5	1.00	"	50.0	0.800	109	70-130			
Ethylbenzene	54.1	1.00	"	50.0	ND	108	70-130			
m,p-Xylene	108	2.00	"	100	ND	108	70-130			
o-Xylene	52.3	1.00	"	50.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Matrix Spike (B9F2601-MS2)	Source: Y906378-02			Prepared: 06/26/2019 Analyzed: 06/26/2019						
Benzene	48.8	1.00	ug/L	50.0	ND	97.6	70-130			
Toluene	52.0	1.00	"	50.0	ND	104	70-130			
Ethylbenzene	51.4	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
o-Xylene	49.8	1.00	"	50.0	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Matrix Spike Dup (B9F2601-MSD1)	Source: Y906378-01			Prepared: 06/26/2019 Analyzed: 06/26/2019						
Benzene	51.2	1.00	ug/L	50.0	ND	102	70-130	1.22	20	
Toluene	55.2	1.00	"	50.0	0.800	109	70-130	0.705	20	
Ethylbenzene	54.9	1.00	"	50.0	ND	110	70-130	1.49	20	
m,p-Xylene	109	2.00	"	100	ND	109	70-130	1.33	20	
o-Xylene	52.9	1.00	"	50.0	ND	106	70-130	1.03	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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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 - Wardlaw #20-28

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 B9F2601 - EPA 5030B (Water)

Matrix Spike Dup (B9F2601-MSD2)	Source: Y906378-02			Prepared: 06/26/2019 Analyzed: 06/26/2019						
Benzene	48.9	1.00	ug/L	50.0	ND	97.7	70-130	0.123	20	
Toluene	53.0	1.00	"	50.0	ND	106	70-130	1.93	20	
Ethylbenzene	51.8	1.00	"	50.0	ND	104	70-130	0.794	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	0.493	20	
o-Xylene	50.2	1.00	"	50.0	ND	100	70-130	0.640	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.7	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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wardlaw #20-28

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