



July 15, 2020

Mr. Jim Goddard  
Expedition Water Solutions  
2015 Clubhouse Drive, Suite 201  
Greeley, Colorado 80634

Via E-Mail: [jgoddard@expedition-water.com](mailto:jgoddard@expedition-water.com)

Subject: Quarterly Groundwater Monitoring Report – 2<sup>nd</sup> Quarter 2020  
Expedition Water Solutions  
EWS #13  
23360 County Road 54  
Greeley, Colorado 80631  
CGRS Project #: 1-12456-18304aa

Mr. Goddard:

This report documents the groundwater monitoring activities performed by CGRS, Inc. (CGRS), at the Expedition Water Solutions (EWS) #13 facility located in Greeley, Colorado, as shown in the Site Location Map. Quarterly groundwater monitoring was performed on April 28, 2020 and consisted of obtaining groundwater levels from all accessible monitoring wells, measuring in-situ water quality parameters, and collection of groundwater quality samples for laboratory analyses from monitoring well locations.

Water quality samples were obtained from seven groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7) and submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total dissolved solids (TDS), chloride, and sulfate. In-situ field parameters consisting of temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were measured and documented after sampling each monitoring well. Water quality analytical results and Chain of Custody documentation are included in Attachment A, summarized with historical data in Table 1, and depicted in the Groundwater Sample Location Map.

A review of groundwater analytical data indicate that all BTEX analytes from the groundwater quality samples submitted for analysis were below laboratory method detection limits (MDLs) and Colorado Oil and Gas Conservation Commission (COGCC) maximum allowable concentrations (MACs). Additionally, the inorganic analytes represent normal background water quality conditions historically observed at this facility.

To calculate groundwater elevation, depth to groundwater was measured in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 and subtracted from surveyed reference elevations, as shown in Table 1. Review of the most recent sample data shows depth to groundwater varied between 7.28 feet below top of well casing (TOC) in monitoring well MW-7 and 11.40 feet below TOC in monitoring well MW-3. The inferred groundwater flow direction is to the north-northeast at a calculated hydraulic gradient of 0.002 ft/ft, as measured between wells MW-7 and MW-2. Inferred water table elevation contours are illustrated in the Groundwater Elevation Map.

At the request of EWS, CGRS will continue to perform groundwater monitoring activities, which will include obtaining water level measurements, obtaining in-situ field measurements, and collecting groundwater quality samples from



project monitoring wells on a quarterly basis. The next monitoring event is scheduled for July 2020. If you have any questions regarding this report, or the project itself, please contact Drezden Kinnaird at [dkinnaird@cgrs.com](mailto:dkinnaird@cgrs.com).

Sincerely,  
**CGRS, Inc.**

John Acker  
Staff Geologist

A handwritten signature in blue ink, appearing to read "John Acker".

Reviewed by,

Drezden Kinnaird  
Project Manager  
Environmental Scientist

A handwritten signature in blue ink, appearing to read "Drezden Kinnaird".

Enclosures:

- Site Location Map
- Groundwater Sample Map
- Groundwater Elevation Map
- Table 1 – Groundwater Elevation and Analytical Data
- Attachment A – Groundwater Laboratory Report and Chain of Custody Documentation

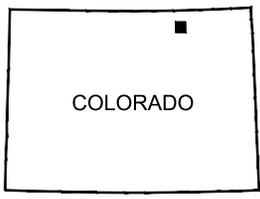
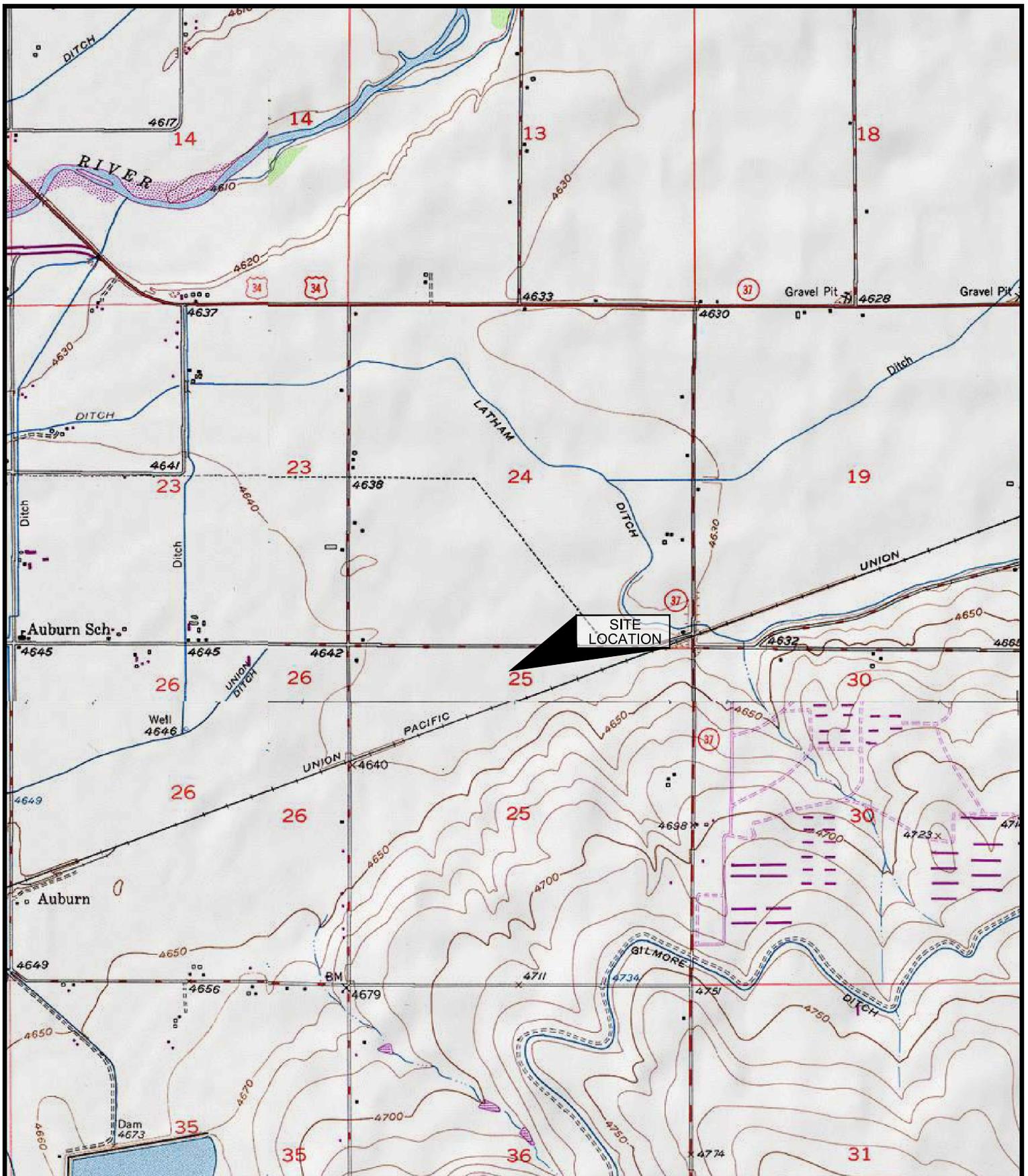
Ec: Mr. Dave Gage; Expedition Water Solutions; [dgage@expedition-water.com](mailto:dgage@expedition-water.com)  
Mr. Ben Frissell; Weld County Department of Public Health & Environment; [bfrissell-durley@weldgov.com](mailto:bfrissell-durley@weldgov.com)  
Ms. Danielle Serna – Weld County Department of Public Health & Environment; [dserna@weldgov.com](mailto:dserna@weldgov.com)



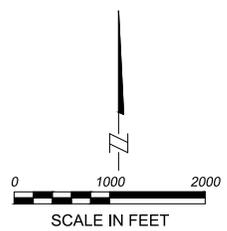
## Maps

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Site Location Map  
Groundwater Sample Location Map  
Groundwater Elevation Map



■ QUADRANGLE LOCATION



SITE LOCATION MAP

EXPEDITION WATER SOLUTIONS  
 EWS #13  
 23360 COUNTY ROAD 54  
 GREELEY, COLORADO 80631

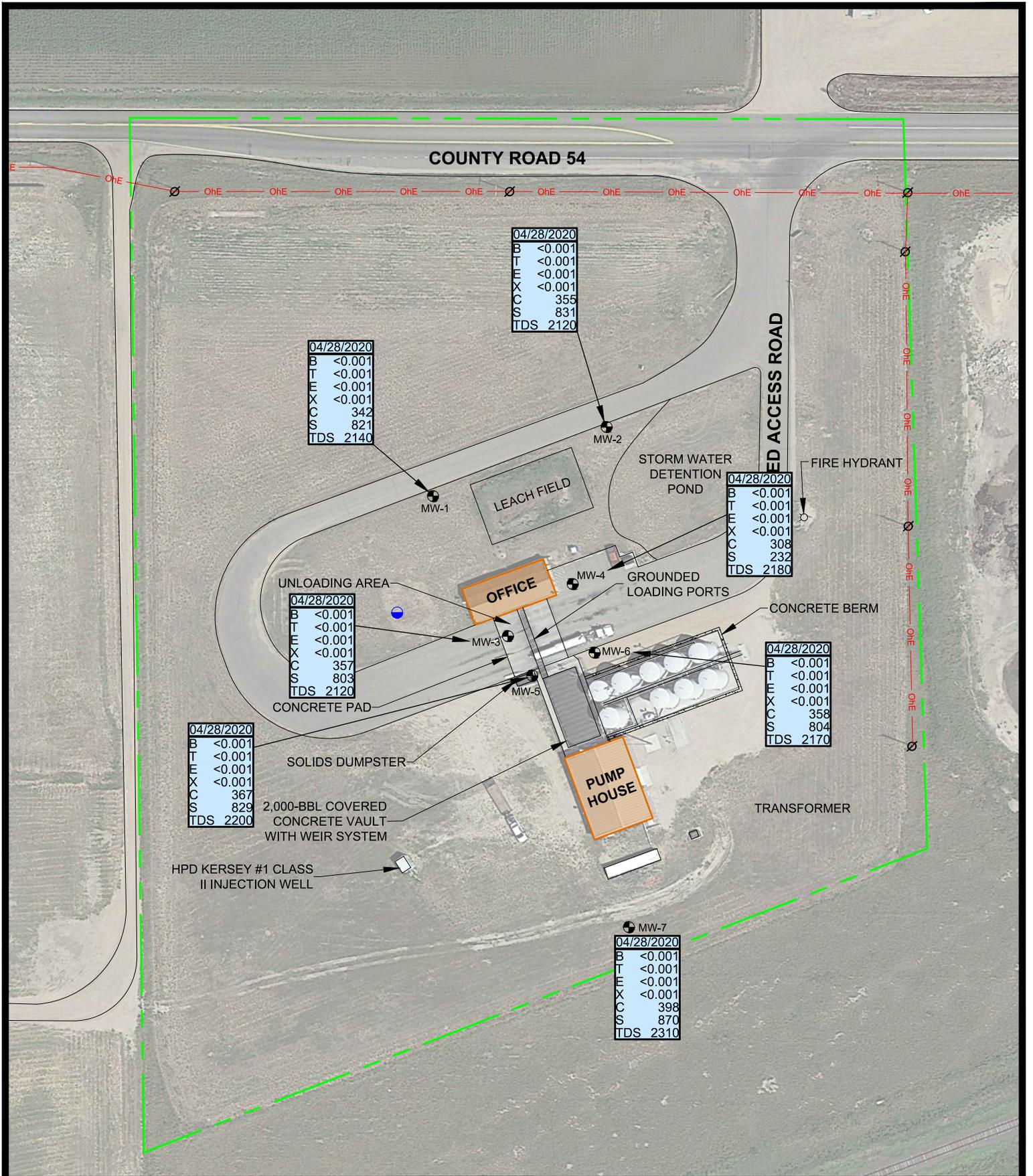
PROJECT:  
 1-12456-18304aa

DATE:  
 01/28/2020

DRAFT:  
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REVIEW:  
 JAA



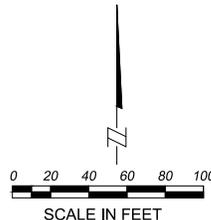


**LEGEND**

- MW-1 MONITORING WELL
- DOMESTIC WATER WELL
- UTILITY POLE
- OVERHEAD ELECTRIC
- APPROXIMATE PROPERTY BOUNDARY

**SAMPLE DATE**

B	BENZENE (mg/L)
T	TOLUENE (mg/L)
E	ETHYLBENZENE (mg/L)
X	TOTAL XYLENES (mg/L)
C	CHLORIDE (mg/L)
S	SULFATES (mg/L)
TDS	TOTAL DISSOLVED SOLIDS (mg/L)



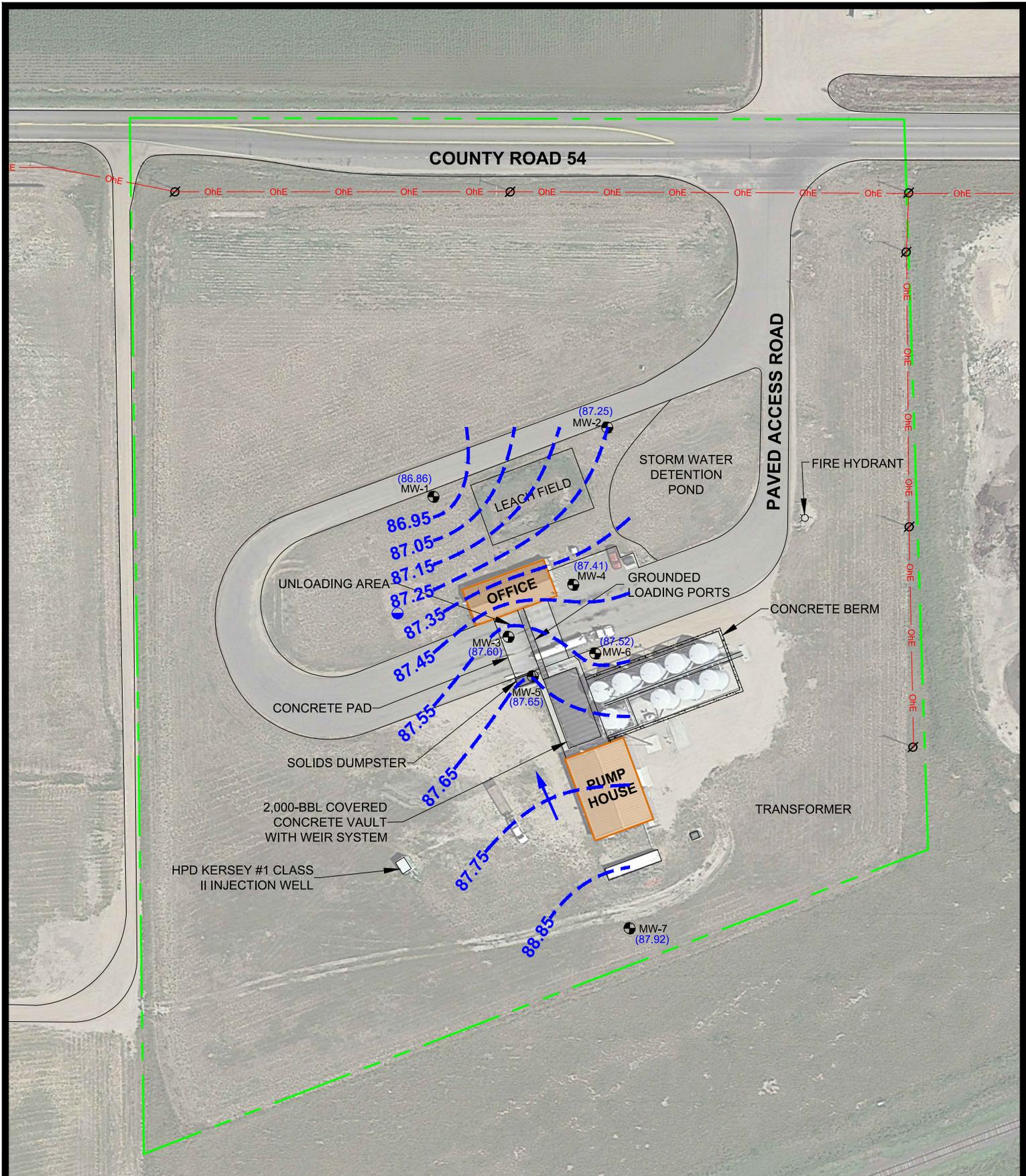
**GROUNDWATER SAMPLE MAP**

April 28, 2020  
EXPEDITION WATER SOLUTIONS  
EWS #13  
23360 COUNTY ROAD 54  
GREELEY, COLORADO 80631

PROJECT:  
1-12456-18304aa  
DATE:  
5/18/2020

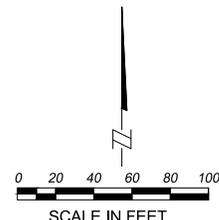
DRAFT:  
CLB  
REVIEW:  
JAA





**LEGEND**

- MW-1 MONITORING WELL
- DOMESTIC WATER WELL
- (86.86) GROUNDWATER ELEVATION (FEET)
- OHE — OVERHEAD ELECTRIC
- — — APPROXIMATE PROPERTY BOUNDARY
- — — GROUNDWATER ELEVATION CONTOUR
- ➔ INFERRED FLOW DIRECTION
- ∅ UTILITY POLE



**GROUNDWATER ELEVATION MAP**  
 April 28, 2020  
 EXPEDITION WATER SOLUTIONS  
 EWS #13  
 23360 COUNTY ROAD 54  
 GREELEY, COLORADO 80631

1-12456-18304aa	DRAFT: CLB
DATE: 5/18/2020	JAA



## Tables

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### Groundwater Elevation and Analytical Data

Table 1

Groundwater Elevation and Analytical Data  
 Groundwater Monitoring Report  
 Expedition Water Solutions - EWS #13  
 23360 County Road 54, Greeley, CO 80631

Sample ID	Sample Date	Reference Elevation (ft)	Depth To Water (ft)	Groundwater Elevation (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-Benzene (mg/L)	Xylenes (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Temperature (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MAC	-	-	-	-	0.005	1	0.7	10	1.25 x BG*	1.25 x BG*	1.25 x BG*	-	-	-	-	-
MDL	-	-	-	-	Various	Various	Various	Various	Various	Various	Various	-	-	-	-	-
MW-1	1/26/2016	96.10	5.66	90.44	<0.001	<0.001	<0.001	<0.001	298	733	2,280	10.13	2,690		7.18	
MW-1	7/26/2016	96.10	4.24	91.86	<0.001	<0.001	<0.001	<0.001	308	945	2,530	17.01	3,322		7.15	
MW-1	1/30/2017	96.10	6.75	89.35	<0.001	<0.001	<0.001	<0.001	340	1,050	1,830	11.74	3,039		7.06	
MW-1	7/24/2017	96.10	4.24	91.86	<0.001	<0.001	<0.001	<0.002	225	617	1,740	16.88	3,289		7.10	
MW-1	1/29/2018	96.10	6.30	89.80	<0.001	<0.001	<0.001	<0.002	382	993	2,320	9.62	3,033		8.50	
MW-1	7/24/2018	96.10	4.95	91.15	<0.001	<0.001	<0.001	<0.002	373	900	1,660	17.95	2,636		7.81	
MW-1	1/30/2019	96.10	6.73	89.37	<0.001	<0.001	<0.001	<0.002	1,280	3,410	1,480	9.40	3,023		7.45	
MW-1	7/29/2019	96.10	5.01	91.09	<0.001	<0.001	<0.001	<0.002	274	670	1,440	16.00	2,938		5.27	
MW-1	1/8/2020	96.10	5.97	90.13	<0.001	<0.001	<0.001	<0.001	321	802	2,250	10.46	3,194	0.38	7.09	151.1
MW-1	4/28/2020	96.10	9.24	86.86	<0.001	<0.001	<0.001	<0.001	342	821	2,140	9.24	3,388	0.31	7.05	128.5
MW-2	1/26/2016	96.40	6.18	90.22	<0.001	<0.001	<0.001	<0.001	330	801	2,250	10.21	2,780		7.03	
MW-2	7/26/2016	96.40	4.60	91.80	<0.001	<0.001	<0.001	<0.001	292	743	2,330	14.80	3,020		7.14	
MW-2	1/30/2017	96.40	7.31	89.09	<0.001	<0.001	<0.001	<0.001	379	1,200	1,890	11.44	3,152		7.01	
MW-2	7/24/2017	96.40	4.49	91.91	<0.001	<0.001	<0.001	<0.002	228	593	1,780	18.37	1,618		7.13	
MW-2	1/29/2018	96.40	6.86	89.54	<0.001	<0.001	<0.001	<0.002	402	1,090	2,560	10.86	3,322		8.77	
MW-2	7/24/2018	96.40	5.24	91.16	<0.001	<0.001	<0.001	<0.002	406	967	1,720	17.18	2,692		7.74	
MW-2	1/30/2019	96.40	4.27	92.13	<0.001	<0.001	<0.001	<0.002	1,220	3,230	1,500	10.57	3,114		7.43	
MW-2	7/29/2019	96.40	5.40	91.00	<0.001	<0.001	<0.001	<0.002	299	692	1,450	15.32	3,028		5.45	
MW-2	1/8/2020	96.40	6.51	89.89	<0.001	<0.001	<0.001	<0.001	322	851	2,410	11.06	3,302	1.95	7.06	132.0
MW-2	4/28/2020	96.40	9.15	87.25	<0.001	<0.001	<0.001	<0.001	355	831	2,120	9.84	3,475	3.06	6.90	137.5
MW-3	1/26/2016	99.00	8.41	90.59	<0.001	<0.001	<0.001	<0.001	335	734	2,310	10.90	2,775		7.28	
MW-3	7/26/2016	99.00	7.14	91.86	<0.001	<0.001	<0.001	<0.001	298	758	2,410	14.39	3,157		7.10	
MW-3	1/30/2017	99.00	9.54	89.46	<0.001	<0.001	<0.001	<0.001	286	1,050	1,800	11.32	2,963		7.06	
MW-3	7/24/2017	99.00	7.20	91.80	<0.001	<0.001	<0.001	<0.002	235	592	1,800	14.20	3,147		7.07	
MW-3	1/29/2018	99.00	9.10	89.90	<0.001	<0.001	<0.001	<0.002	435	1,210	2,270	10.30	3,060		8.76	
MW-3	7/24/2018	99.00	7.78	91.22	<0.001	<0.001	<0.001	<0.002	382	902	1,690	15.15	2,479		7.67	
MW-3	1/30/2019	99.00	9.51	89.49	<0.001	<0.001	<0.001	<0.002	1,230	3,180	1,570	10.28	3,173		7.29	
MW-3	7/29/2019	99.00	7.99	91.01	<0.001	<0.001	<0.001	<0.002	248	620	1,140	13.62	2,938		7.32	
MW-3	1/8/2020	99.00	8.75	90.25	<0.001	<0.001	<0.001	<0.001	340	853	2,320	10.31	3,296	0.50	7.11	168.8
MW-3	4/28/2020	99.00	11.40	87.60	<0.001	<0.001	<0.001	<0.001	357	803	2,120	9.48	3,451	0.21	7.05	117.0
MW-4	1/26/2016	98.70	8.33	90.37	<0.001	<0.001	<0.001	<0.001	322	751	2,250	11.70	2,718		7.29	
MW-4	7/26/2016	98.70	6.97	91.73	<0.001	<0.001	<0.001	<0.001	302	722	2,190	13.80	2,901		7.31	
MW-4	1/30/2017	98.70	9.44	89.26	<0.001	<0.001	<0.001	<0.001	352	1,100	1,770	12.07	2,872		7.12	
MW-4	7/24/2017	98.70	6.98	91.72	<0.001	<0.001	<0.001	<0.002	248	620	1,770	13.50	2,909		7.27	
MW-4	1/29/2018	98.70	8.98	89.72	<0.001	<0.001	<0.001	<0.002	428	1,180	2,400	11.20	3,138		8.40	
MW-4	7/24/2018	98.70	8.10	90.60	0.0017	0.0015	<0.001	<0.002	439	1,020	1,730	15.42	2,484		7.62	
MW-4	1/30/2019	98.70	9.41	89.29	<0.001	<0.001	<0.001	<0.002	1,300	3,340	1,580	10.78	3,220		7.31	
MW-4	7/29/2019	98.70	7.82	90.88	<0.001	<0.001	<0.001	<0.002	276	670	1,450	12.64	3,013		6.98	
MW-4	1/8/2020	98.70	8.65	90.05	<0.001	<0.001	<0.001	<0.001	330	818	2,280	11.94	3,182	0.16	7.04	174.8
MW-4	4/28/2020	98.70	11.29	87.41	<0.001	<0.001	<0.001	<0.001	308	232	2,180	9.61	3,522	0.09	6.97	114.8
MW-5	1/26/2016	99.00	8.41	90.59	<0.001	<0.001	<0.001	<0.001	313	722	2,110	9.31	2,658		7.20	
MW-5	4/26/2016	99.00	10.07	88.93	<0.001	<0.001	<0.001	<0.001	371	725	2,290	8.33	2,991		6.68	
MW-5	7/26/2016	99.00	7.16	91.84	<0.001	<0.001	<0.001	<0.001	270	650	2,250	15.29	2,939		7.21	
MW-5	10/31/2016	99.00	6.87	92.13	<0.001	<0.001	<0.001	<0.001	382	1,050	1,800	16.20	3,364		7.39	
MW-5	1/30/2017	99.00	9.50	89.50	<0.001	<0.001	<0.001	<0.001	362	1,070	1,760	11.29	2,960		7.09	
MW-5	4/27/2017	99.00	11.21	87.79	<0.001	<0.001	<0.001	<0.002	423	933	2,410	8.95	3,146		7.26	
MW-5	7/24/2017	99.00	7.22	91.78	<0.001	<0.001	<0.001	<0.002	207	498	1,780	14.65	2,950		7.17	
MW-5	10/27/2017	99.00	5.48	93.52	<0.001	<0.001	<0.001	<0.002	283	830	2,510	14.81	3,317		7.68	
MW-5	1/29/2018	99.00	9.09	89.91	<0.001	<0.001	<0.001	<0.002	454	1,270	2,460	9.78	3,243		8.30	
MW-5	4/12/2018	99.00	11.00	88.00	<0.001	<0.001	<0.001	<0.002	382	1,100	2,570	8.41	3,337		7.34	
MW-5	7/24/2018	99.00	8.00	91.00	0.0012	<0.001	<0.001	<0.002	505	1,180	1,780	15.96	2,848		7.64	
MW-5	10/29/2018	99.00	6.10	92.90	<0.001	<0.001	<0.001	<0.002	316	683	1,720	16.21	3,061		7.26	
MW-5	1/30/2019	99.00	9.46	89.54	0.0019	0.0021	<0.001	<0.002	1,130	2,910	1,580	10.27	3,190		7.70	
MW-5	4/29/2019	99.00	11.30	87.70	<0.001	<0.001	<0.001	<0.002	227	488	1,580	7.41	3,240		7.19	
MW-5	7/29/2019	99.00	8.03	90.97	<0.001	<0.001	<0.001	<0.002	~ 6,000	319	1,400	13.55	2,935		7.33	
MW-5	1/8/2020	99.00	8.71	90.29	<0.001	<0.001	<0.001	<0.001	336	836	2,310	10.66	3,301	0.71	7.08	172.5
MW-5	4/28/2020	99.00	11.35	87.65	<0.001	<0.001	<0.001	<0.001	367	829	2,200	8.88	3,538	1.66	6.99	123.0
MW-6	1/26/2016	98.80	8.28	90.52	0.0039	0.0022	<0.001	<0.001	312	718	2,250	11.78	2,692		7.24	
MW-6	4/26/2016	98.80	9.98	88.82	<0.001	<0.001	<0.001	<0.001	371	751	2,200	9.80	3,059		7.45	
MW-6	7/26/2016	98.80	7.00	91.80	<0.001	<0.001	<0.001	<0.001	264	550	2,340	13.40	3,068		7.16	
MW-6	10/31/2016	98.80	6.72	92.08	<0.001	<0.001	<0.001	<0.001	60	204	1,700	15.38	3,283		7.38	
MW-6	1/30/2017	98.80	9.42	89.38	0.0018	0.0018	<0.001	<0.001	387	1,110	1,780	12.26	2,957		7.17	
MW-6	4/27/2017	98.80	11.12	87.68	<0.001	<0.001										



## Attachments

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Laboratory Reports and Chain of Custody Documentation

May 06, 2020

**CGRS, Inc**

**Drezden Kinnaird**

**1301 Academy Court**

**Fort Collins CO 80524**

**Project Name - EWS #13**

**Project Number - 18304aa**

Attached are your analytical results for EWS #13 received by Origins Laboratory, Inc. April 28, 2020. This project is associated with Origins project number Y004388-01.

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



CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 18304aa  
Project: EWS #13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	Y004388-01	Water	April 28, 2020 10:00	04/28/2020 19:35
MW-2	Y004388-02	Water	April 28, 2020 10:15	04/28/2020 19:35
MW-3	Y004388-03	Water	April 28, 2020 10:30	04/28/2020 19:35
MW-4	Y004388-04	Water	April 28, 2020 11:00	04/28/2020 19:35
MW-5	Y004388-05	Water	April 28, 2020 11:15	04/28/2020 19:35
MW-6	Y004388-06	Water	April 28, 2020 11:30	04/28/2020 19:35
MW-7	Y004388-07	Water	April 28, 2020 12:00	04/28/2020 19:35

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.*



CGRS, Inc  
 1301 Academy Court  
 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y001388 Client: CGRS  
 Client Project ID: EWS #13  
 Checklist Completed by: JL Shipped Via: HD  
 Date/time completed: 4/29/20 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: 5177  
 Matrix(s) Received: (Check all that apply): Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 12.5 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T005

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"/>	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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.

Reviewed by (Project Manager) JM Date/Time Reviewed 4-30-20

Origins Laboratory, Inc.



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CGRS, Inc  
 1301 Academy Court  
 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-1**

**4/28/2020 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-01 (Water)**

**Anions by EPA 300.0**

Chloride	342	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	821	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2140	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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Origins Laboratory, Inc.



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 1301 Academy Court  
 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-2**

**4/28/2020 10:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-02 (Water)**

**Anions by EPA 300.0**

Chloride	355	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	831	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2120	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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Origins Laboratory, Inc.



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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-3**

**4/28/2020 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-03 (Water)**

**Anions by EPA 300.0**

Chloride	357	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	803	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2120	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-4**

**4/28/2020 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-04 (Water)**

**Anions by EPA 300.0**

Chloride	308	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	232	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2180	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-5**

**4/28/2020 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-05 (Water)**

**Anions by EPA 300.0**

Chloride	367	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	829	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2200	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-6**

**4/28/2020 11:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-06 (Water)**

**Anions by EPA 300.0**

Chloride	358	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	804	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2170	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/04/2020	
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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**MW-7**

**4/28/2020 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y004388-07 (Water)**

**Anions by EPA 300.0**

Chloride	398	10.0	mg/L	50	1993879	CH5	04/28/2020	05/01/2020	
Sulfate	870	20.0	"	"	"	CH5	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B0D2915	KDK	04/29/2020	04/29/2020	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	2310	5.00	mg/L	1	B0D3008	DJL	04/30/2020	05/05/2020	
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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**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 B0D2915 - EPA 5030B (Water)**

**Blank (B0D2915-BLK1)**

Prepared: 04/29/2020 Analyzed: 04/29/2020

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5	95.1		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5	119		70-130			

Origins Laboratory, Inc.



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 1301 Academy Court  
 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**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 B0D2915 - EPA 5030B (Water)

**LCS (B0D2915-BS1)**

Prepared: 04/29/2020 Analyzed: 04/29/2020

Benzene	44.6	1.00	ug/L	50.0		89.2	70-130			
Toluene	47.6	1.00	"	50.0		95.1	70-130			
Ethylbenzene	44.9	1.00	"	50.0		89.8	70-130			
m,p-Xylene	92.1	2.00	"	100		92.1	70-130			
o-Xylene	44.1	1.00	"	50.0		88.2	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	72		"	62.5		116	70-130			

Origins Laboratory, Inc.



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 1301 Academy Court  
 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**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 B0D2915 - EPA 5030B (Water)

Matrix Spike (B0D2915-MS1)	Source: Y004388-01			Prepared: 04/29/2020 Analyzed: 04/29/2020						
Benzene	46.1	1.00	ug/L	50.0	ND	92.2	70-130			
Toluene	49.3	1.00	"	50.0	ND	98.5	70-130			
Ethylbenzene	45.2	1.00	"	50.0	ND	90.4	70-130			
m,p-Xylene	95.0	2.00	"	100	ND	95.0	70-130			
o-Xylene	45.8	1.00	"	50.0	ND	91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		118	70-130			

Origins Laboratory, Inc.



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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**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 B0D2915 - EPA 5030B (Water)**

Matrix Spike Dup (B0D2915-MSD1)	Source: Y004388-01		Prepared: 04/29/2020 Analyzed: 04/29/2020							
Benzene	45.6	1.00	ug/L	50.0	ND	91.3	70-130	1.00	20	
Toluene	48.8	1.00	"	50.0	ND	97.5	70-130	1.04	20	
Ethylbenzene	44.9	1.00	"	50.0	ND	89.7	70-130	0.755	20	
m,p-Xylene	92.8	2.00	"	100	ND	92.8	70-130	2.34	20	
o-Xylene	45.4	1.00	"	50.0	ND	90.7	70-130	1.01	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	74		"	62.5		118	70-130			

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 Fort Collins CO 80524

Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0D3008 - NO PREP**

**Blank (B0D3008-BLK1)**

Prepared: 04/30/2020 Analyzed: 05/05/2020

Total Dissolved Solids ND 5.00 mg/L

**LCS (B0D3008-BS1)**

Prepared: 04/30/2020 Analyzed: 05/05/2020

Total Dissolved Solids 745 5.00 mg/L 716 104 85-115

**Duplicate (B0D3008-DUP1)**

**Source: Y004388-05**

Prepared: 04/30/2020 Analyzed: 05/05/2020

Total Dissolved Solids 2190 5.00 mg/L 2200 0.296 20

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 1301 Academy Court  
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Drezden Kinnaird  
 Project Number: 18304aa  
 Project: EWS #13

**Anions by EPA 300.0 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1993879 -</b>										
<b>BLANK (1204554278-BLK)</b>					Prepared: Analyzed: 04/30/2020					
Chloride	0.165	0.200	mg/L				-			J
Sulfate	ND	0.400	"				-			U
<b>LCS (1204554279-BKS)</b>					Prepared: Analyzed: 04/30/2020					
Chloride	4.74	0.200	mg/L	5.00		94.7	90-110			
Sulfate	9.70	0.400	"	10.0		97	90-110			
<b>DUP (1204554280 D)</b>		<b>Source: 510380001</b>			Prepared: Analyzed: 04/30/2020					
Chloride	103	4.00	mg/L		105		0-20	1.15	20	
Sulfate	547	20.0	"		551		0-20	0.74	20	
<b>PS (1204554281 S)</b>		<b>Source: 510380001</b>			Prepared: Analyzed: 05/01/2020					
Sulfate	1060	20.0	mg/L	10.0		102	90-110			
Chloride	210	4.00	"	5.00		106	90-110			
<b>DUP (1204554282 D)</b>		<b>Source: 510380002</b>			Prepared: Analyzed: 05/01/2020					
Sulfate	97.7	8.00	mg/L		96.1		0-20	1.68	20	
Chloride	104	4.00	"		103		0-20	1.02	20	
<b>PS (1204554283 S)</b>		<b>Source: 510380002</b>			Prepared: Analyzed: 05/01/2020					
Chloride	210	4.00	mg/L	5.00		107	90-110			
Sulfate	305	8.00	"	10.0		105	90-110			

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1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 18304aa  
Project: EWS #13

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**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- 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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