TETRA TECH

TECHNICAL MEMORANDUM

To:	**Nevada Environmental Response Trust**
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Arul Ayyaswami and Dan Pastor
Date:	June 8, 2018
Subject:	**In-Situ Chromium Treatability Study Monthly Progress Report**

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum that summarizes Tetra Tech's progress made through April 2018 toward successfully implementing the In-Situ Chromium Treatability Study as outlined in the In-Situ Chromium Treatability Study Work Plan (Work Plan).

Task Progress Update: April 2018

Task M12 – In-Situ Chromium Treatability Study

- Task Leader – Arul Ayyaswami
- Current Status
    - The In-Situ Chromium Treatability Study Results Report was submitted to NDEP on March 22, 2018 and NDEP comments were received on April 6, 2018. The comments are currently being addressed.
    - An additional performance groundwater monitoring event was performed from March 5 – 7, 2018 as part of the biological reduction study to further evaluate groundwater velocity, carbon substrate longevity, the degree to which reduction of hexavalent chromium and other chemicals of potential concern could occur within the UMCf, and confirm geochemical conditions return to baseline conditions. Groundwater monitoring was performed at 10 of the 14 downgradient monitoring wells. Groundwater monitoring wells CTMW-03S, CTMW-03D, CTMW-05S, and CTMW-05D were excluded as the previous groundwater monitoring results indicated that these wells were located cross-gradient of the injection wells and showed limited effects from the carbon substrate injections.
    - Summary data tables of the well construction details, groundwater gauging results, and groundwater monitoring results are provided in the attached Tables 1, 2, and 3, respectively. As requested by NDEP, the following provides a brief summary of the analytical results obtained from the additional performance groundwater monitoring event conducted in March 2018:

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- Hexavalent chromium concentrations in groundwater remained below detectable concentrations (less than 0.25 micrograms per liter [µg/L]) at the shallow monitoring wells closest to the injection wells (CTMW-01S and CTMW-02S) and at CTMW-06S. Hexavalent chromium concentrations started to increase at the shallow monitoring well CTMW-04S as the total organic carbon concentration returned to baseline levels. Hexavalent chromium concentrations in groundwater continued to decline at the deep monitoring wells CTMW-01D and CTMW-06D with concentrations declining from 12,000 µg/L to 7,500 µg/L and from 13,000 µg/L to 5,600 µg/L, respectively.
- Perchlorate concentrations in groundwater continued to decline at the shallow monitoring wells closest to the injection wells (CTMW-01S and CTMW-02S), but started to increase at the monitoring wells farther downgradient (CTMW-04S and CTMW-06S) as the total organic carbon concentrations returned to baseline levels. At CTMW-01S and CTMW-02S, perchlorate concentrations in groundwater reduced to below the laboratory method detection limit of 2.5 µg/L and a concentration of 34 µg/L, respectively. Perchlorate concentrations in groundwater continued to decline in the deep monitoring wells CTMW-01D and CTMW-06D with concentrations declining from 1,300,000 µg/L to 910,000 µg/L and from 990,000 µg/L to 610,000 µg/L, respectively.
- Chloroform concentrations in groundwater continued to decline at the shallow monitoring wells CTMW-01S, CTMW-02S, and CTMW-06S with concentrations reduced to 3.2 µg/L, 1.9 µg/L, and 16 µg/L, respectively. Chloroform concentrations in groundwater at CTMW-04S increased from 48 µg/L to 580 µg/L, which is close to the baseline concentration of 720 µg/L. Chloroform concentrations in groundwater declined at the deep monitoring wells CTMW-01D, CTMW-02D, CTMW-04D, and CTMW-06D. At CTMW-01D and CTMW-02D, chloroform concentrations in groundwater declined from 1,300 µg/L to 750 µg/L and from 1,500 µg/L to 990 µg/L, respectively. At CTMW-04D and CTMW-06D, chloroform concentrations in groundwater declined from 1,300 µg/L to 960 µg/L and from 1,200 µg/L to 440 µg/L, respectively.
- Organic acids and intermediate fermentation-based products associated with the presence of high concentrations of carbon substrates in a highly reducing environment, such as acetone and methyl ethyl ketone returned to baseline concentrations in groundwater at the farthest downgradient shallow monitoring wells. At shallow monitoring wells CTMW-04S and CTMW-06S, acetone and methyl ethyl ketone concentrations in groundwater reduced to below the laboratory method detection limit of 100 µg/L and 25 µg/L, respectively.
- Volatile fatty acids, produced during hydrolysis of the long-chain fatty acids of the emulsified oil substrate, also reduced to concentrations in groundwater below the laboratory method detection limit of 3.7 mg/L in the farthest downgradient shallow monitoring wells CTMW-04S and CTMW-06S.
- In general, dissolved metal concentrations for arsenic, iron, and manganese began to decrease in the farthest downgradient shallow monitoring wells CTMW-04S and CTMW-06S. Arsenic concentrations in groundwater collected from CTMW-04S was 66 µg/L, similar to the baseline concentration of 65 µg/L. Arsenic concentrations in groundwater collected from CTMW-06S remained elevated at 430 µg/L, but below the maximum concentration of 660 µg/L. Iron and manganese concentrations in groundwater decreased in samples collected from CTMW-04S and CTMW-06S. These overall decreasing trends in dissolved metal concentrations are expected to continue as

geochemical conditions return to baseline conditions and will continue to be tracked during the next performance groundwater monitoring event.

- Schedule and Progress Updates
  - Per NDEP comments, a revised In-Situ Chromium Treatability Study Results Report and an annotated response-to-comments letter will be submitted to NDEP by June 22, 2018.
  - One additional performance groundwater monitoring event will be performed in June 2018 as part of the biological reduction study. A summary table of the proposed groundwater monitoring parameters for each monitoring well for this event is presented in the attached Table 4. The results of the additional performance groundwater monitoring events will be presented in a report addendum in 3rd Quarter 2018.
- Health and Safety
  - There were no health and safety incidents related to Task M12 during April 2018.

CERTIFICATION

In-Situ Chromium Treatability Study Monthly Progress Report

Nevada Environmental Response Trust Site
(Former Tronox LLC Site)
Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification
I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmer Response Trust Trustee

not individually, but solely as Pres. Sent

Signature: Jay A Steinberg, _____, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 6/8/18

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared In-Situ Chromium Treatability Study Progress Report, Nevada Environmental Response Trust Site, Henderson, Nevada.

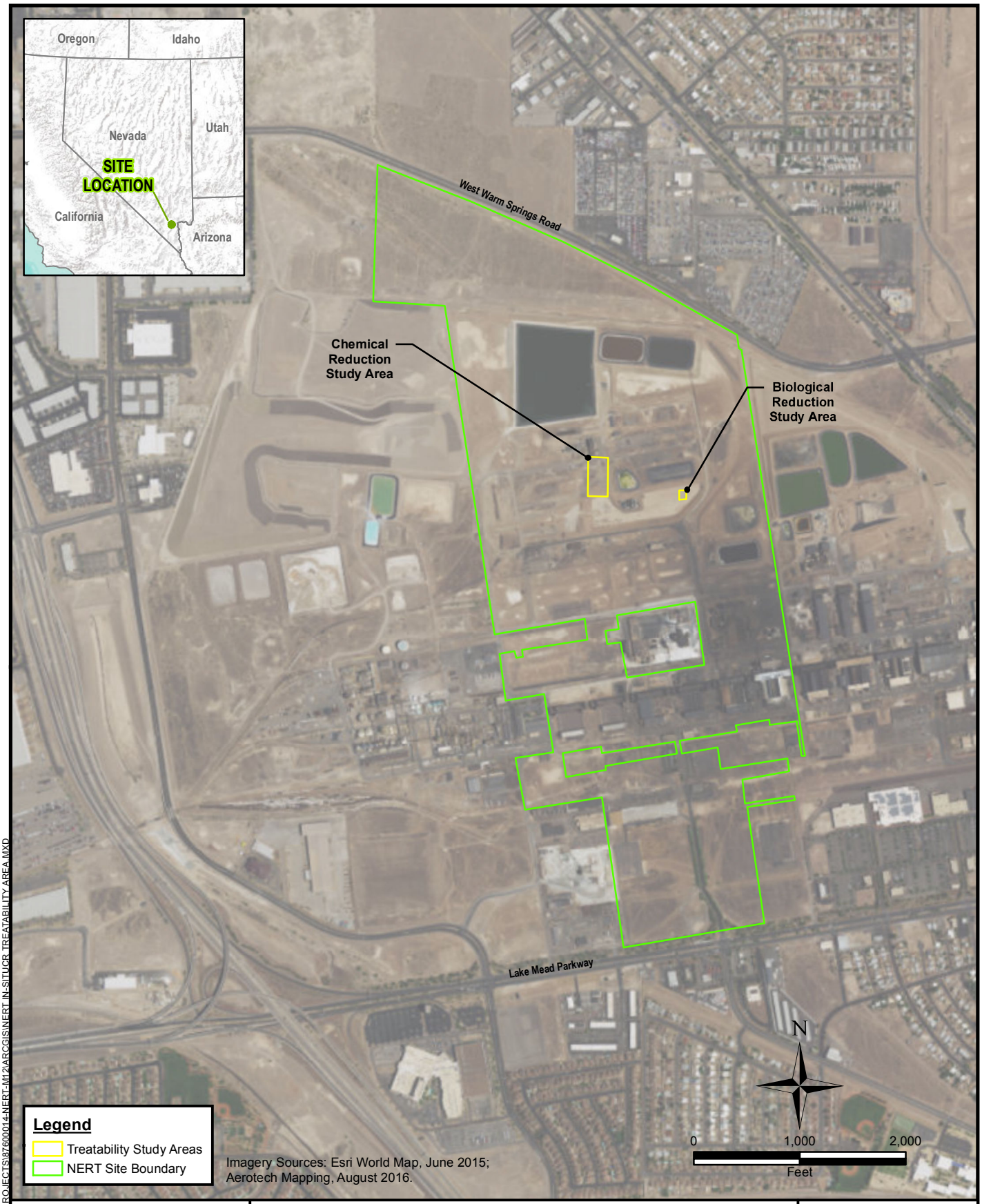
June 8, 2018

Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2018

Figures



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TETRA TECH

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NEVADA ENVIRONMENTAL RESPONSE TRUST SITE

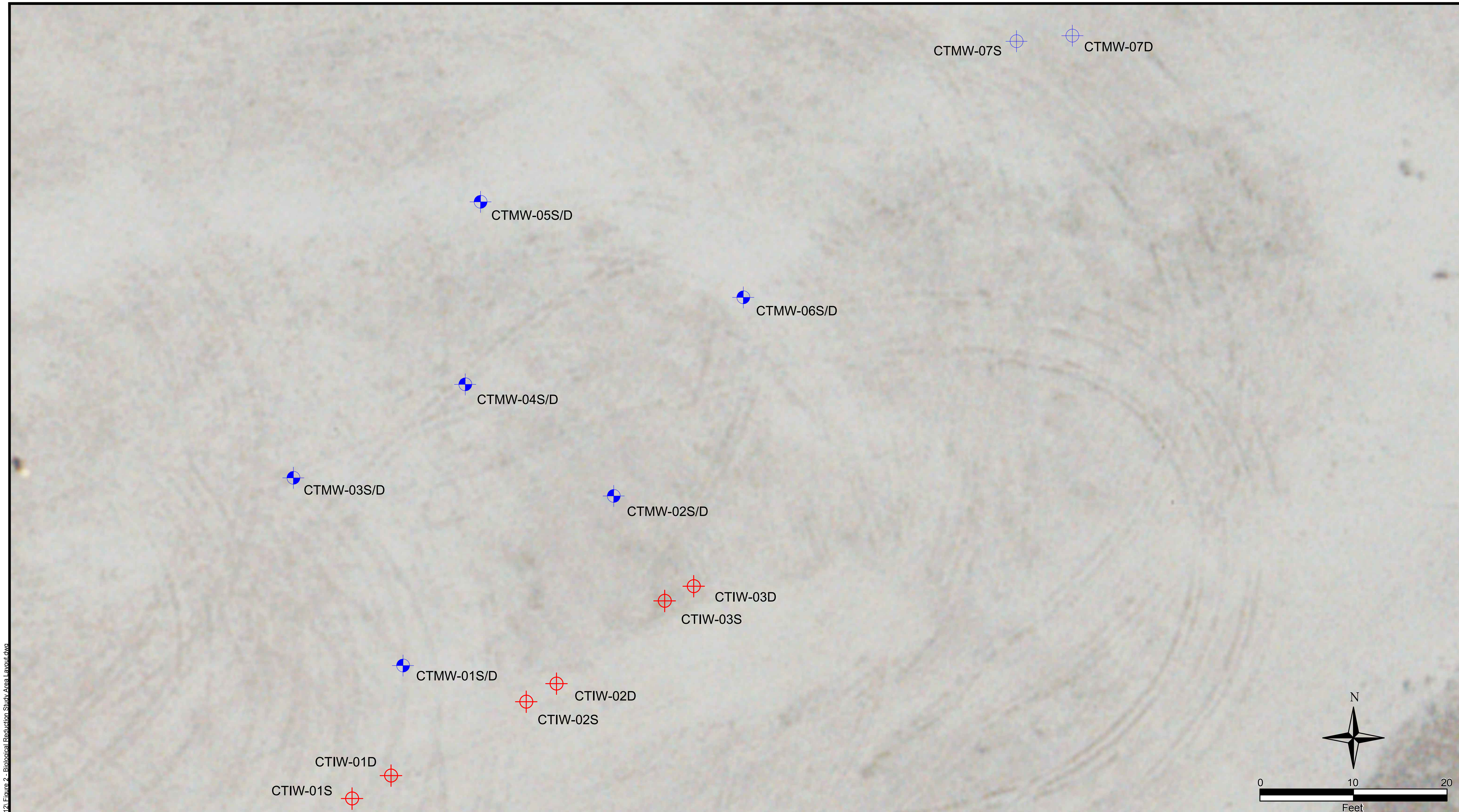
IN-SITU CHROMIUM TREATABILITY STUDY

SITE LOCATION MAP

Project No.:	87600014
Date:	NOVEMBER 17, 2017
Designed By:	KL

Figure No.

1



Legend

CTMW-07S	Monitoring Well (Single Completion)	Qal	Quaternary Alluvium
CTMW-03S/D	Monitoring Well (Dual Completion)	UMCf	Upper Muddy Creek Formation
CTIW-01D	Injection Well (Single Completion)		
S	Shallow Well (Screened in Qal)		
D	Deep Well (Screened in UMCf)		

Note:
1. Imagery Source: Aerotech Mapping, August 2016.

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NEVADA ENVIRONMENTAL RESPONSE TRUST SITE

IN-SITU CHROMIUM TREATABILITY STUDY

BIOLOGICAL REDUCTION STUDY AREA LAYOUT

Project No:	117-7502018
Date:	MAY 22, 2018
Designed By:	DVK

Figure No.

2

\\tts318fs3\.tt.local\ces\87600014-NERT-M12\ Figure 2 - Biological Reduction Study Area Layout.dwg

Tables

Table 1 - Well Construction Details

In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well ID	Northing (feet)	Easting (feet)	Latitude	Longitude	Borehole Size (inches)	Well Diameter (inches)	Well Material (blank casing)	Well Vault	Filter Pack Material	Screen Material	Screen Interval (feet bgs)	Screen Top (feet bgs)	Screen Bottom (feet bgs)	Screen Length (feet)	Total Depth of Borehole (feet bgs)	Total Depth of Well (feet bgs)	TOC Elevation (feet amsl)	Ground Surface Elevation (feet amsl)
CTIW-01S	26719202.713	828135.837	36° 02' 48.27" N	115° 00' 05.74" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	18.5 - 23.5	18.5	23.5	5	26.5	23.5	1,757.41	1,757.20
CTIW-01D	26719205.172	828140.000	36° 02' 48.29" N	115° 00' 05.69" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	33 - 38	33	38	5	61.5	38	1,757.34	1,757.08
CTIW-02S	26719213.064	828154.451	36° 02' 48.37" N	115° 00' 05.51" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	26.5	24	1,757.45	1,757.39
CTIW-02D	26719215.001	828157.687	36° 02' 48.39" N	115° 00' 05.47" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 49	34	49	15	51.5	49	1,757.31	1,757.37
CTIW-03S	26719223.844	828169.245	36° 02' 48.48" N	115° 00' 05.33" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	26.5	24	1,757.32	1,757.31
CTIW-03D	26719225.419	828172.351	36° 02' 48.49" N	115° 00' 05.29" W	8	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 49	34	49	15	51.5	49	1,757.48	1,757.38
CTMW-01S	26719216.935	828141.284	36° 02' 48.41" N	115° 00' 05.67" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	61.5	24	1,757.16	1,757.18
CTMW-01D	26719217.228	828141.249	36° 02' 48.41" N	115° 00' 05.67" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 49	34	49	15		49	1,757.14	1,757.18
CTMW-02S	26719235.068	828163.802	36° 02' 48.59" N	115° 00' 05.40" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	61.5	24	1,757.21	1,757.32
CTMW-02D	26719234.810	828163.939	36° 02' 48.59" N	115° 00' 05.39" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 49	34	49	15		49	1,757.26	1,757.32
CTMW-03S	26719237.005	828129.568	36° 02' 48.61" N	115° 00' 05.81" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	19 - 24	19	24	5	61.5	24	1,757.21	1,757.15
CTMW-03D	26719237.269	828129.763	36° 02' 48.61" N	115° 00' 05.81" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	34 - 39	34	39	5		39	1,757.23	1,757.15
CTMW-04S	26719246.990	828147.930	36° 02' 48.71" N	115° 00' 05.59" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	61.5	24	1,757.00	1,757.17
CTMW-04D	26719246.759	828147.969	36° 02' 48.71" N	115° 00' 05.59" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 49	34	49	15		29	1,757.00	1,757.17
CTMW-05S	26719266.508	828149.570	36° 02' 49.20" N	115° 00' 05.99" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	61.5	24	1,757.24	1,757.15
CTMW-05D	26719266.615	828149.351	36° 02' 49.20" N	115° 00' 05.99" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 54	34	54	20		54	1,757.25	1,757.15
CTMW-06S	26719256.295	828177.643	36° 02' 49.23" N	115° 00' 05.74" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	19 - 24	19	24	5	61.5	24	1,757.43	1,757.17
CTMW-06D	26719256.058	828177.537	36° 02' 49.23" N	115° 00' 05.74" W	12	2	Sch. 40 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.020"	34 - 54	34	54	20		54	1,757.42	1,757.17
CTMW-07S	26719283.848	828206.898	36° 02' 49.60" N	115° 00' 04.84" W	8	2	Sch. 80 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	19 - 24	19	24	5	25	24	1,757.50	1,757.50
CTMW-07D	26719284.263	828212.828	36° 02' 49.60" N	115° 00' 04.77" W	8	2	Sch. 80 PVC	18-in. Diameter Round	#2/16 Sand	2-in PVC 0.010"	100 - 115	100	115	15	131.5	115	1,757.38	1,757.38

Notes:

amsl	Above mean sea level
bgs	Below ground surface
btoc	Below top of casing
GW	Groundwater
in	Inches
PVC	Polyvinyl Chloride
Sch.	Schedule
TOC	Top of Casing

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Table 2 - Groundwater Elevations
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well ID	Screen Interval (feet bgs)	TOC Elevation (feet amsl)	Date Gauged	Event	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	GW Elevation (feet amsl)
CTIW-01S	18.5 - 23.5	1,757.41	04/03/17	Baseline	--	22.26	--	1,735.15
			05/02/17	PME1	--	22.15	--	1,735.26
			05/16/17	PME2	--	22.29	--	1,735.12
			05/31/17	PME3	--	22.16	--	1,735.25
			06/19/17	PME4	--	22.03	--	1,735.38
			07/17/17	PME5	--	22.25	--	1,735.16
			08/22/17	PME6	--	22.19	--	1,735.22
			09/19/17	PME7	--	22.33	--	1,735.08
			10/03/17	PME8	22.39	22.80	0.41	1,735.01
			03/05/18	PME9	--	21.90	--	1,735.51
CTIW-01D	33 - 38	1,757.34	04/03/17	Baseline	--	22.21	--	1,735.13
			05/02/17	PME1	--	22.41	--	1,734.93
			05/16/17	PME2	--	22.48	--	1,734.86
			05/31/17	PME3	--	22.36	--	1,734.98
			06/19/17	PME4	--	22.21	--	1,735.13
			07/17/17	PME5	--	22.39	--	1,734.95
			08/22/17	PME6	--	22.95	--	1,734.39
			09/19/17	PME7	--	--	--	--
			10/03/17	PME8	--	22.68	--	1,734.66
			03/05/18	PME9	--	22.23	--	1,735.11
CTIW-02S	19 - 24	1,757.45	04/03/17	Baseline	--	22.49	--	1,734.96
			05/02/17	PME1	--	22.20	--	1,735.25
			05/16/17	PME2	--	22.32	--	1,735.13
			05/31/17	PME3	--	22.37	--	1,735.08
			06/19/17	PME4	--	22.13	--	1,735.32
			07/17/17	PME5	--	22.46	--	1,734.99
			08/22/17	PME6	--	21.40	--	1,736.05
			09/19/17	PME7	--	--	--	--
			10/03/17	PME8	--	22.52	--	1,734.93
			03/05/18	PME9	--	22.02	--	1,735.43
CTIW-02D	34 - 49	1,757.31	04/03/17	Baseline	--	22.52	--	1,734.79
			05/02/17	PME1	--	23.21	--	1,734.10
			05/16/17	PME2	22.71	23.70	0.99	1,734.57
			05/31/17	PME3	--	23.20	--	1,734.11
			06/19/17	PME4	--	22.70	--	1,734.61
			07/17/17	PME5	--	22.88	0.01	1,734.44
			08/22/17	PME6	--	22.76	--	1,734.55
			09/19/17	PME7	--	22.75	--	1,734.56
			10/03/17	PME8	--	22.83	--	1,734.48
			03/05/18	PME9	--	22.35	--	1,734.96
CTIW-03S	19 - 24	1,757.32	04/03/17	Baseline	--	22.53	--	1,734.79
			05/02/17	PME1	--	22.35	--	1,734.97
			05/16/17	PME2	--	22.44	--	1,734.88
			05/31/17	PME3	--	22.51	--	1,734.81
			06/19/17	PME4	--	22.24	--	1,735.08
			07/17/17	PME5	--	22.69	--	1,734.63
			08/22/17	PME6	--	21.75	--	1,735.57
			09/19/17	PME7	--	22.50	--	1,734.82
			10/03/17	PME8	--	22.79	--	1,734.53
			03/05/18	PME9	--	22.25	--	1,735.07

Table 2 - Groundwater Elevations
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well ID	Screen Interval (feet bgs)	TOC Elevation (feet amsl)	Date Gauged	Event	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	GW Elevation (feet amsl)
CTIW-03D	34 - 49	1,757.48	04/03/17	Baseline	--	22.80	--	1,734.68
			05/02/17	PME1	23.65	23.79	0.14	1,733.83
			05/16/17	PME2	23.59	23.76	0.17	1,733.88
			05/31/17	PME3	--	23.33	--	1,734.15
			06/19/17	PME4	--	23.25	0.20	1,734.42
			07/17/17	PME5	--	23.18	0.02	1,734.30
			08/22/17	PME6	--	24.23	--	1,733.25
			09/19/17	PME7	--	24.11	--	1,733.37
			10/03/17	PME8	--	23.41	--	1,734.07
			03/05/18	PME9	--	22.91	--	1,734.57
CTMW-01S	19 - 24	1,757.16	04/03/17	Baseline	--	22.21	--	1,734.95
			05/02/17	PME1	--	22.25	--	1,734.91
			05/16/17	PME2	--	22.13	--	1,735.03
			05/31/17	PME3	--	22.28	--	1,734.88
			06/19/17	PME4	--	22.24	--	1,734.92
			07/17/17	PME5	--	22.45	--	1,734.71
			08/22/17	PME6	--	22.50	--	1,734.66
			09/19/17	PME7	--	22.85	--	1,734.31
			10/03/17	PME8	--	22.67	--	1,734.49
			03/05/18	PME9	--	22.17	--	1,734.99
CTMW-01D	34 - 49	1,757.14	04/03/17	Baseline	--	22.37	--	1,734.77
			05/02/17	PME1	--	22.43	--	1,734.71
			05/16/17	PME2	--	22.54	--	1,734.60
			05/31/17	PME3	--	22.46	--	1,734.68
			06/19/17	PME4	--	22.48	--	1,734.66
			07/17/17	PME5	--	22.63	--	1,734.51
			08/22/17	PME6	--	22.72	--	1,734.42
			09/19/17	PME7	--	23.77	--	1,733.37
			10/03/17	PME8	--	22.74	--	1,734.40
			03/05/18	PME9	--	22.27	--	1,734.87
CTMW-02S	19 - 24	1,757.21	04/03/17	Baseline	--	22.47	--	1,734.74
			05/02/17	PME1	--	22.79	--	1,734.42
			05/16/17	PME2	--	22.90	--	1,734.31
			05/31/17	PME3	--	22.85	--	1,734.36
			06/19/17	PME4	--	22.75	--	1,734.46
			07/17/17	PME5	--	22.96	--	1,734.25
			08/22/17	PME6	--	Dry	--	--
			09/19/17	PME7	--	23.21	--	1,734.00
			10/03/17	PME8	--	23.26	--	1,733.95
			03/05/18	PME9	--	22.65	--	1,734.56
CTMW-02D	34 - 49	1,757.26	04/03/17	Baseline	--	22.72	--	1,734.54
			05/02/17	PME1	--	22.96	--	1,734.30
			05/16/17	PME2	--	23.07	--	1,734.19
			05/31/17	PME3	--	23.08	--	1,734.18
			06/19/17	PME4	--	23.12	--	1,734.14
			07/17/17	PME5	--	23.22	--	1,734.04
			08/22/17	PME6	--	23.36	--	1,733.90
			09/19/17	PME7	--	23.40	--	1,733.86
			10/03/17	PME8	--	23.36	--	1,733.90
			03/05/18	PME9	--	22.90	--	1,734.36

Table 2 - Groundwater Elevations
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well ID	Screen Interval (feet bgs)	TOC Elevation (feet amsl)	Date Gauged	Event	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	GW Elevation (feet amsl)
CTMW-03S	19 - 24	1,757.21	04/03/17	Baseline	--	22.36	--	1,734.85
			05/02/17	PME1	--	22.41	--	1,734.80
			05/16/17	PME2	--	22.45	--	1,734.76
			05/31/17	PME3	--	22.47	--	1,734.74
			06/19/17	PME4	--	22.40	--	1,734.81
			07/17/17	PME5	--	22.59	--	1,734.62
			08/22/17	PME6	--	22.64	--	1,734.57
			09/19/17	PME7	--	22.73	--	1,734.48
			10/03/17	PME8	--	22.74	--	1,734.47
			03/05/18	PME9	--	22.37	--	1,734.84
CTMW-03D	34 - 39	1,757.23	04/03/17	Baseline	--	22.43	--	1,734.80
			05/02/17	PME1	--	22.56	--	1,734.67
			05/16/17	PME2	--	22.57	--	1,734.66
			05/31/17	PME3	--	22.58	--	1,734.65
			06/19/17	PME4	--	22.58	--	1,734.65
			07/17/17	PME5	--	22.75	--	1,734.48
			08/22/17	PME6	--	22.80	--	1,734.43
			09/19/17	PME7	--	22.88	--	1,734.35
			10/03/17	PME8	--	22.85	--	1,734.38
			03/05/18	PME9	--	22.45	--	1,734.78
CTMW-04S	19 - 24	1,757.00	04/03/17	Baseline	--	22.37	--	1,734.63
			05/02/17	PME1	--	22.61	--	1,734.39
			05/16/17	PME2	--	22.71	--	1,734.29
			05/31/17	PME3	--	22.69	--	1,734.31
			06/19/17	PME4	--	22.66	--	1,734.34
			07/17/17	PME5	--	22.80	--	1,734.20
			08/22/17	PME6	--	22.89	--	1,734.11
			09/19/17	PME7	--	22.90	--	1,734.10
			10/03/17	PME8	--	22.98	--	1,734.02
			03/05/18	PME9	--	22.48	--	1,734.52
CTMW-04D	34 - 49	1,757.00	04/03/17	Baseline	--	22.62	--	1,734.38
			05/02/17	PME1	--	22.75	--	1,734.25
			05/16/17	PME2	--	22.88	--	1,734.12
			05/31/17	PME3	--	22.86	--	1,734.14
			06/19/17	PME4	--	22.85	--	1,734.15
			07/17/17	PME5	--	23.01	--	1,733.99
			08/22/17	PME6	--	23.07	--	1,733.93
			09/19/17	PME7	--	23.13	--	1,733.87
			10/03/17	PME8	--	23.12	--	1,733.88
			03/05/18	PME9	--	22.61	--	1,734.39
CTMW-05S	19 - 24	1,757.24	04/03/17	Baseline	--	Not Constructed		
			05/02/17	PME1	--	Not Constructed		
			05/16/17	PME2	--	Not Constructed		
			05/31/17	PME3	--	Not Constructed		
			06/19/17	PME4	--	23.18	--	1,734.06
			07/17/17	PME5	--	23.28	--	1,733.96
			08/22/17	PME6	--	23.36	--	1,733.88
			09/19/17	PME7	--	23.38	--	1,733.86
			10/03/17	PME8	--	23.42	--	1,733.82
			03/05/18	PME9	--	22.85	--	1,734.39

Table 2 - Groundwater Elevations
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well ID	Screen Interval (feet bgs)	TOC Elevation (feet amsl)	Date Gauged	Event	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	GW Elevation (feet amsl)
CTMW-05D	34 - 54	1,757.25	04/03/17	Baseline	--	Not Constructed		
			05/02/17	PME1	--	Not Constructed		
			05/16/17	PME2	--	Not Constructed		
			05/31/17	PME3	--	Not Constructed		
			06/19/17	PME4	--	23.36	--	1,733.89
			07/17/17	PME5	--	23.48	--	1,733.77
			08/22/17	PME6	--	23.53	--	1,733.72
			09/19/17	PME7	--	23.56	--	1,733.69
			10/03/17	PME8	--	23.54	--	1,733.71
			03/05/18	PME9	--	22.98	--	1,734.27
CTMW-06S	19 - 24	1,757.43	04/03/17	Baseline	--	Not Constructed		
			05/02/17	PME1	--	Not Constructed		
			05/16/17	PME2	--	Not Constructed		
			05/31/17	PME3	--	Not Constructed		
			06/19/17	PME4	--	23.41	--	1,734.02
			07/17/17	PME5	--	23.53	--	1,733.90
			08/22/17	PME6	--	23.59	--	1,733.84
			09/19/17	PME7	--	23.64	--	1,733.79
			10/03/17	PME8	--	23.65	--	1,733.78
			03/05/18	PME9	--	23.18	--	1,734.25
CTMW-06D	34 - 54	1,757.42	04/03/17	Baseline	--	Not Constructed		
			05/02/17	PME1	--	Not Constructed		
			05/16/17	PME2	--	Not Constructed		
			05/31/17	PME3	--	Not Constructed		
			06/19/17	PME4	--	23.74	--	1,733.68
			07/17/17	PME5	--	23.84	--	1,733.58
			08/22/17	PME6	--	23.96	--	1,733.46
			09/19/17	PME7	--	23.95	--	1,733.47
			10/03/17	PME8	--	23.95	--	1,733.47
			03/05/18	PME9	--	23.55	--	1,733.87
CTMW-07S	19 - 24	1,757.50	03/05/18	PME9	--	23.82	--	1,733.68
CTMW-07D	100 - 115	1,757.38	03/05/18	PME9	--	20.52	--	1,736.86

Notes:

amsl	Above mean sea level
bgs	Below ground surface
btoc	Below top of casing
Product	emulsified oil substrate
PME	Performance Monitoring Event
--	Not Measured
[1]	Groundwater elevations for wells with product (emulsified oil substrate) are corrected using an average specific gravity of 0.965

TETRA TECH

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Perchlorate by USEPA Method 314.0 (µg/L)	Hexavalent Chromium by USEPA Method 7199 (µg/L)	Total Metals by USEPA Method 6010B (mg/L)			USEPA Method 300.1B (µg/L)		General Water Quality Parameters							
						Total Chromium	Total Iron	Total Manganese	Chlorate	Chlorite	pH	Temp (°C)	Specific Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Sulfide (mg/L)	Ferrous Iron (mg/L)
CTMW-01S	CTMW-01S-20170404	04/04/17	Baseline	**410,000**	**11,000**	**11**	--	**0.030**	**2,500,000**	<1,000	7.4	26	9.1	170	1.7	0.0	0.00	0.02
	CTMW-01S-20170503	05/03/17	PME1	**340,000**	**26**	**1.7**	--	**0.55**	**870,000**	<10,000	6.0	29	14	-170	1.9	16	0.00	0.00
	CTMW-01S-20170516	05/16/17	PME2	**280,000**	<0.25	**0.49**	--	**0.55**	**730,000**	<10,000	6.7	24	11	-300	1.2	59	0.11	0.22
	CTMW-01S-20170531	05/31/17	PME3	**140,000**	<0.25	**0.18**	**1.4**	**0.99**	**650,000**	<10,000	6.1	29	11	-160	1.1	9.2	0.05	0.04
	CTMW-01S-20170619	06/19/17	PME4	**39,000**	<0.25 UJ	**1.9**	**17**	**3.3**	**64,000**	<20,000	6.2	31	14	-130	0.56	460	0.08	0.30
	CTMW-01S-20170720	07/20/17	PME5	**4,000**	<0.25	**0.49**	**25**	**5.5**	**72,000**	<5,000	5.9	29	14	-40	0.77	75	0.25	0.19
	CTMW-01S-20170824	08/24/17	PME6	**32,000**	**2.6**	**2.2**	**18**	**3.3**	**13,000**	<10,000	6.5	30	14	-71	2.1	300	0.62	3.30
	CTMW-01S-20170920	09/20/17	PME7	**320**	**0.37 J**	**0.086**	**11**	**3.6**	<1,000	<10,000	6.4	31	12	-72	0.15	35	0.49	--
	CTMW-01S-20171003	10/03/17	PME8	**150 J+**	<0.25	**0.084**	**21**	**2.8**	**610 J**	<1,000	7.8	26	12	-82	1.1	30	0.08	10
	CTMW-01S-20180305	03/05/18	PME9	<2.5	<0.25	**0.061**	**3.9**	**0.29**	<500	<1,000	**7.38**	26.20	8.75	-135	1.04	352	0.20	2.30
CTMW-01D	CTMW-01D-20170403	04/03/17	Baseline	**1,400,000**	**24,000**	**23**	--	**0.042**	**4,900,000**	<1,000	7.0	26	15	100	1.6	85	0.030	0.070
	CTMW-01D-20170503	05/03/17	PME1	**1,400,000**	**22,000**	**24**	--	**0.20**	**4,900,000**	<10,000	6.5	27	17	79	1.4	81	0.010	0.050
	CTMW-01D-20170516	05/16/17	PME2	**1,400,000**	**21,000**	**24**	--	**0.037 J**	**4,500,000**	<10,000	7.5	27	14	-23	1.1	4.8	0.0	0.15
	CTMW-01D-20170531	05/31/17	PME3	**1,300,000**	**22,000**	**23**	**0.15 J**	**0.027 J**	**4,800,000**	<10,000	7.0	27	15	-14	0.83	0.60	0.0	0.050
	CTMW-01D-20170619	06/19/17	PME4	**1,400,000**	**20,000 J-**	**22**	<0.25	<0.075	**4,300,000**	R	7.0	29	14	-130	0.49	4.2	0.0	0.0
	CTMW-01D-20170720	07/20/17	PME5	**1,400,000**	**16,000**	**16**	<0.10	**0.070**	**4,100,000**	R	6.5	27	15	-120	0.36	7.9	0.030	0.030
	CTMW-01D-20170720-FD	07/20/17	PME5	**1,300,000**	**16,000**	**15**	<0.050	**0.063**	**4,100,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-01D-20170824	08/24/17	PME6	**1,400,000**	**13,000**	**14**	**0.17 J**	**0.20**	**3,700,000**	<10,000	6.4	27	16	-160	0.73	27	0.060	0.070
	CTMW-01D-20170920	09/20/17	PME7	**1,500,000**	**12,000**	**13**	**0.71**	**0.21**	**3,800,000**	<10,000	6.5	26	15	-100	0.21	12	0.060	--
	CTMW-01D-20171003	10/03/17	PME8	**1,300,000**	**12,000**	**11**	**0.13**	**0.21**	**3,500,000**	<10,000	7.3	27	14	-19	0.28	0.0	0.090	0.060
	CTMW-01D-20180305	03/05/18	PME9	**910,000**	**7,500**	**7.4**	<0.050	**0.66**	**2,200,000**	<10,000	7.10	26.92	9.31	137	1.39	7.0	0.0	0.0
	CTMW-01D-20180305-FD	03/05/18	PME9	**900,000**	**7,500**	**7.3**	<0.050	**0.65**	**2,300,000**	<10,000	--	--	--	--	--	--	--	--
CTMW-02S	CTMW-02S-20170405	04/05/17	Baseline	**410,000**	**11,000**	**11**	--	**0.03**	**2,500,000**	<10,000	7.45	27.19	9.23	161	1.56	0.00	0.00	0.09
	CTMW-02S-20170504	05/04/17	PME1	**460,000**	**1,300**	**2.5**	--	**0.36**	**860,000**	<10,000	5.05	33.65	13.3	190	7.53	62.9	0.00	0.01
	CTMW-02S-20170516	05/16/17	PME2	**380,000**	**110**	**0.74**	--	**0.35**	**550,000**	<10,000	6.75	31.31	11.1	-43	1.68	0.0	0.11	0.16
	CTMW-02S-20170601	06/01/17	PME3	**440,000**	**760**	**0.68**	**0.11**	**0.23**	**750,000**	<10,000	6.70	29.55	11.2	150	1.82	6.6	0.06	0.10
	CTMW-02S-20170620	06/20/17	PME4	**110,000**	<0.25	**0.16**	**2.1**	**1.3**	<500	<500	6.76	27.70	10.5	-145	0.56	239	0.10	0.30
	CTMW-02S-20170719	07/19/17	PME5	**26,000**	<0.25	**0.084**	**13**	**2.7**	<500	<10,000	6.6	30.00	11.5	-31	0.77	98.1	0.13	0.17
	Not Analyzed	08/24/17	PME6	**Well Dry; Unable to sample**														
	CTMW-02S-20170920	09/20/17	PME7	**13,000**	<0.25	**0.097**	**13**	**1.4**	<1,000	<10,000	--	--	--	--	--	--	--	--
	CTMW-02S-20171003	10/03/17	PME8	**290**	<0.25	**0.13**	**7.9**	**1.1**	<500	<1,000	7.30	26.14	9.15	-107	0.26	45.4	0.07	3.23
	CTMW-02S-20180306	03/06/18	PME9	**34**	<0.25	**0.049**	**4.2**	**0.51**	<50	<50	7.33	20.71	8.39	-61	1.17	83.2	0.10	4.00
CTMW-02D	CTMW-02D-20170404	04/04/17	Baseline	**960,000**	**20,000**	**23**	--	**0.090 J**	**4,800,000**	<1,000	7.6	28	13	120	1.2	29	0.060	0.11
	CTMW-02D-20170404-FD	04/04/17	Baseline	**930,000**	**20,000**	**21**	--	**0.076 J**	**4,600,000**	<1,000	--	--	--	--	--	--	--	--
	CTMW-02D-20170503	05/03/17	PME1	**1,100,000 J**	**15,000**	**19**	--	**0.10**	**4,200,000**	<10,000	6.0	29	15	130	1.2	5.2	0.030	0.14
	CTMW-02D-20170503-FD	05/03/17	PME1	**1,800,000 J**	**15,000**	**19**	--	**0.11**	**4,200,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-02D-20170517	05/17/17	PME2	**1,100,000**	**19,000**	**18**	--	**0.13**	**40,000,000**	<10,000	7.1	23	13	33	3.4	130	0.030	0.0
	CTMW-02D-20170601	06/01/17	PME3	**1,300,000**	**19,000**	**19**	**0.11**	**0.090**	**3,300,000**	<10,000	6.7	27	13	160	0.52	6.6	0.040	0.050
	CTMW-02D-20170601-FD	06/01/17	PME3	**1,200,000**	**18,000**	**18**	**0.051 J**	**0.10**	**3,400,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-02D-20170619	06/19/17	PME4	**1,100,000**	**16,000**	**19**	<0.25	**0.13**	**2,000,000**	<10,000	7.0	27	13	-160	0.41	7.2	0.0	0.0
	CTMW-02D-20170619-FD	06/19/17	PME4	**1,200,000**	**18,000**	**20**	<0.25	**0.13**	**1,900,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-02D-20170719	07/19/17	PME5	**950,000**	**13,000**	**12**	<0.050	**0.26**	**4,400,000**	<10,000	6.7	26	13	39	0.68	27	0.030	0.020
	CTMW-02D-20170824	08/24/17	PME6	**1,200,000**	**14,000**	**16**	**0.17 J**	**0.40**	**3,500,000**	R	6.6	26	15	-160	0.75	31	0.040	0.090
	CTMW-02D-20170920	09/20/17	PME7	**2,500,000**	**13,000**	**13**	**6.1**	**0.49**	**3,700,000**	<10,000	6.8	25	13	53	0.12	39	0.020	--
	CTMW-02D-20171003	10/03/17	PME8	**1,200,000**	**15,000**	**14**	**0.27**	**0.28**	**3,600,000**	<10,000	6.7	28	14	-14	0.13	20	0.0	0.0
	CTMW-02D-20180305	03/05/18	PME 9	**1,100,000**	**14,000**	**14**	<0.25	**0.48**	**3,900,000**	<10,000	**6.99**	27.32	12.6	152	0.69	1.3	0.00	0.00

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Perchlorate by USEPA Method 314.0 (µg/L)	Hexavalent Chromium by USEPA Method 7199 (µg/L)	Total Metals by USEPA Method 6010B (mg/L)			USEPA Method 300.1B (µg/L)		General Water Quality Parameters							
						Total Chromium	Total Iron	Total Manganese	Chlorate	Chlorite	pH	Temp (°C)	Specific Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Sulfide (mg/L)	Ferrous Iron (mg/L)
CTMW-03S	CTMW-03S-20170405	04/05/17	Baseline	**470,000**	**13,000**	**14**	--	<0.050	**2,900,000**	<10,000	7.3	28	9.4	160	1.9	0.0	0.0	0.0
	CTMW-03S-20170505	05/05/17	PME1	**460,000**	**13,000**	**15**	--	**0.060**	**3,200,000**	<10,000	6.3	25	9.4	-3.0	1.4	0.50	0.0	0.0
	CTMW-03S-20170517	05/17/17	PME2	**490,000**	**14,000**	**15**	--	**0.058**	**3,200,000**	<10,000	7.4	21	10	150	4.8	1.0	0.080	0.0
	CTMW-03S-20170601	06/01/17	PME3	**610,000**	**14,000**	**13**	<0.050	**0.060**	**4,000,000**	<10,000	6.9	28	11	170	1.1	0.0	0.0	0.0
	CTMW-03S-20170620	06/20/17	PME4	**670,000**	**4,400**	**5.7**	**0.23**	**0.33**	**1,600,000**	<1,000	6.5	26	11	33	0.26	84	0.0	0.0
	CTMW-03S-20170718	07/18/17	PME5	**540,000**	**14,000**	**14**	**0.055 J**	**0.33**	**3,100,000**	<10,000	6.7	28	11	120	0.87	16	0.0	0.0
	CTMW-03S-20170823	08/23/17	PME6	**600,000**	**4,800**	**5.7**	**0.15**	**0.60**	**1,600,000**	<10,000	6.4	28	12	14	1.5	100	0.16	0.16
	CTMW-03S-20170921	09/21/17	PME7	**540,000**	**14,000**	**16**	<0.050	**0.38**	**3,400,000**	<10,000	6.9	25	11	67	0.16	2.1	0.12	--
	CTMW-03S-20171003	10/03/17	PME8	**560,000**	**16,000**	**16**	<0.050	**0.36**	**3,400,000**	<10,000	7.3	29	8.8	120	0.84	0.0	0.0	0.050
CTMW-03D	CTMW-03D-20170406	04/06/17	Baseline	**530,000**	**17,000**	**16**	--	**0.031**	**3,700,000**	<10,000	7.4	23	11	210	3.4	2.1	0.0	0.0
	CTMW-03D-20170505	05/05/17	PME1	**490,000**	**16,000**	**16**	--	**0.027**	**3,500,000**	<10,000	6.5	26	12	180	2.1	0.50	0.0	0.0
	CTMW-03D-20170517	05/17/17	PME2	**520,000**	**16,000**	**15**	--	<0.020	**3,400,000**	R	8.7	23	11	170	4.3	0.80	0.010	0.0
	CTMW-03D-20170601	06/01/17	PME3	**570,000**	**15,000**	**15**	<0.050	**0.019 J**	**3,500,000**	R	7.2	28	11	210	0.58	0.0	0.0	0.0
	CTMW-03D-20170620	06/20/17	PME4	**520,000**	**15,000**	**18**	<0.25	**<0.075**	**3,400,000**	<1,000	7.7	27	10	-190	1.2	4.6	0.0	0.0
	CTMW-03D-20170720	07/20/17	PME5	**580,000**	**14,000**	**14**	<0.050	**0.018 J**	**3,400,000**	<10,000	7.2	26	11	110	0.78	3.0	0.0	0.0
	CTMW-03D-20170823	08/23/17	PME6	**610,000**	**14,000**	**15**	<0.050	**0.022**	**3,200,000**	<10,000	7.3	27	11	-28	0.74	55	0.090	0.13
	CTMW-03D-20170921	09/21/17	PME7	**540,000**	**14,000**	**16**	**0.24**	**0.051**	**3,400,000**	<10,000	7.6	24	9.9	71	0.12	1.0	0.030	--
	CTMW-03D-20171003	10/03/17	PME8	**540,000**	**15,000**	**16**	**0.095 J**	**0.030**	**3,500,000**	<10,000	**7.98**	26.17	9.26	77	1.57	0.0	0.00	0.15
CTMW-04S	CTMW-04S-20170405	04/05/17	Baseline	**420,000**	**9,900**	**10**	--	**0.033**	**2,500,000**	<10,000	7.3	23	9.2	140	1.4	0.0	0.0	0.020
	CTMW-04S-20170504	05/04/17	PME1	**420,000**	**5,400**	**19**	--	**0.11**	**1,800,000**	<10,000	5.8	27	12	120	1.4	6.0	0.0	0.020
	CTMW-04S-20170517	05/17/17	PME2	**570,000**	**150**	**0.82**	--	**0.30**	**910,000**	<10,000	6.7	26	11	-12	1.2	47	0.17	0.17
	CTMW-04S-20170602	06/02/17	PME3	**650,000**	**470**	**1.1**	**0.19**	**0.33**	**1,100,000**	<10,000	6.5	27	11	190	1.5	39	0.020	0.030
	CTMW-04S-20170620	06/20/17	PME4	**560,000**	<0.25	**0.78**	**2.9**	**0.41**	**290,000**	<1,000	6.9	31	10	-70	0.36	79	0.090	0.25
	CTMW-04S-20170718	07/18/17	PME5	**180,000**	**0.34 J**	**0.51**	**2.6**	**1.1**	**20,000**	<5,000	6.7	30	11	-1.0	1.4	60	0.070	0.10
	CTMW-04S-20170823	08/23/17	PME6	**140,000**	<0.25	**0.23**	**8.7**	**2.1**	**16,000**	<10,000	6.6	31	12	-240	1.5	70	0.17	2.1
	CTMW-04S-20170921	09/21/17	PME7	**510,000**	<0.25	**0.12**	**14**	**2.6**	**5,100**	<10,000	6.7	26	11	-120	0.16	19	0.11	--
	CTMW-04S-20171003	10/03/17	PME8	**120,000**	<0.25	**0.083**	**15**	**2.0**	**320,000**	<10,000	6.6	30	11	-240	0.18	32	0.0	2.0
	CTMW-04S-20180307	03/07/18	PME9	**840,000**	**2,500 J**	**2.2**	**1.0**	**1.1**	**2,600,000**	<10,000	**6.75**	26.40	12.5	157	0.56	3.2	0.00	0.00
CTMW-04D	CTMW-04D-20170405	04/05/17	Baseline	**980,000**	**19,000**	**20**	--	**0.013 J**	**4,300,000**	<10,000	7.2	25	13	140	1.1	4.7	0.010	0.0
	CTMW-04D-20170504	05/04/17	PME1	**950,000**	**16,000**	**6.2**	--	**0.16**	**4,200,000**	<10,000	6.2	28	15	200	3.7	12	0.0	0.0
	CTMW-04D-20170517	05/17/17	PME2	**870,000**	**19,000**	**22**	--	<0.020	**4,000,000**	<10,000	8.7	23	12	190	0.89	14	0.010	0.070
	CTMW-04D-20170517-FD	05/17/17	PME2	**890,000**	**20,000**	**21**	--	<0.020	**4,000,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-04D-20170602	06/02/17	PME3	**860,000**	**19,000**	**19**	**0.084 J**	<0.010	**4,700,000**	<10,000	7.1	27	12	180	0.34	6.4	0.0	0.0
	CTMW-04D-20170621	06/21/17	PME4	**990,000**	**19,000**	**21**	<0.050	**<0.015**	**3,700,000**	<10,000	7.5	25	12	-66	0.50	6.1	0.0	0.0
	CTMW-04D-20170718	07/18/17	PME5	**950,000**	**19,000**	**19**	**0.37**	**0.13**	**4,600,000**	<10,000	7.3	26	13	-36	0.71	19	0.010	0.020
	CTMW-04D-20170823	08/23/17	PME6	**780,000**	**18,000**	**19**	**0.82**	**0.035**	**4,100,000**	<10,000	7.2	25	13	-69	0.78	120	0.21	0.26
	CTMW-04D-20170823-FD	08/23/17	PME6	**810,000**	**18,000**	**18**	**1.1**	**0.038**	**4,100,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-04D-20170920	09/20/17	PME7	**820,000**	**17,000**	**19**	**0.34**	<0.015	**3,500,000**	<10,000	7.4	26	12	-96	0.16	4.7	0.18	--
	CTMW-04D-20171003	10/03/17	PME8	**740,000**	**18,000**	**18**	**0.13**	<0.015	**3,900,000**	<10,000	7.9	26	10	-130	0.16	0.0	0.0	0.0
	CTMW-04D-20180307	03/07/18	PME9	**660,000**	**15,000**	**17**	<0.25	<0.075	**3,700,000**	<10,000	**7.46**	25.32	11.6	157	0.52	8.3	0.00	0.00
CTMW-05S	CTMW-05S-20170621	06/21/17	PME4	**560,000**	**4,900**	**5.5**	**0.088 J**	**0.21**	**2,100,000**	<10,000	7.0	27	11	110	1.1	19	0.020	0.0
	CTMW-05S-20170717	07/17/17	PME5	**570,000**	**2,500**	**2.8**	<0.050	**0.24**	**1,700,000**	<10,000	6.6	32	12	120	0.82	11	0.030	0.040
	CTMW-05S-20170822	08/22/17	PME6	**610,000**	**3,400**	**3.7**	**5.6**	**0.40**	**2,000,000**	<10,000	6.8	28	12	150	0.87	7.6	0.0	0.020
	CTMW-05S-20170919	09/19/17	PME7	**570,000**	**2,300**	**2.2**	<0.050	**0.21**	**1,900,000**	<10,000	6.6	29	11	160	0.17	4.9	0.010	--
	CTMW-05S-20171004	10/04/17	PME8	**570,000**	**5,900**	**5.7**	<0.050	**0.21**	**2,700,000**	<10,000	6.4	25	10	150	0.66	0.0	0.010	0.080

Table 3 - Summary of Groundwater Monitoring Data

In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Perchlorate by USEPA Method 314.0 (µg/L)	Hexavalent Chromium by USEPA Method 7199 (µg/L)	Total Metals by USEPA Method 6010B (mg/L)			USEPA Method 300.1B (µg/L)		General Water Quality Parameters							
						Total Chromium	Total Iron	Total Manganese	Chlorate	Chlorite	pH	Temp (°C)	Specific Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Sulfide (mg/L)	Ferrous Iron (mg/L)
CTMW-05D	CTMW-05D-20170621	06/21/17	PME4	**660,000**	**16,000**	**16**	<0.050	**<0.015**	**3,400,000**	<10,000	7.6	27	10	140	1.6	8.8	0.0	0.0
	CTMW-05D-20170621-FD	06/21/17	PME4	**590,000**	**16,000**	**18**	<0.050	**0.015 J**	**3,500,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-05D-20170718	07/18/17	PME5	**510,000**	**15,000 J-**	**15**	<0.050	**0.10**	**3,400,000**	R	7.2	26	11	140	0.80	3.4	0.0	0.0
	CTMW-05D-20170822	08/22/17	PME6	**550,000**	**15,000**	**16**	**0.055 J**	**<0.015**	**3,500,000**	<10,000	7.5	26	12	88	0.72	9.6	0.030	0.0
	CTMW-05D-20170919	09/19/17	PME7	**550,000**	**15,000**	**14**	**0.25**	**0.016 J**	**3,300,000**	<10,000	7.3	28	11	110	0.22	8.2	0.020	--
	CTMW-05D-20171004	10/04/17	PME8	**650,000**	**14,000**	**16**	**0.78 J+**	**0.028**	**3,400,000**	R	6.9	25	9.9	140	2.5	15	0.010	0.19
CTMW-06S	CTMW-06S-20170621	06/21/17	PME4	**460,000**	<0.25	**0.31**	**2.5**	**2.0**	**20,000**	<10,000	6.7	35	10	-130	0.66	250	0.020	0.40
	CTMW-06S-20170717	07/17/17	PME5	**18,000 J-**	<0.25	**0.29**	**5.2**	**4.3**	**19,000**	<10,000	6.6	34	12	-120	0.61	160	0.090	0.050
	CTMW-06S-20170822	08/22/17	PME6	**13,000**	<0.25	**0.13**	**42**	**5.7**	**290**	<10,000	6.8	33	13	-92	6.5	120	0.33	2.2
	CTMW-06S-20170919	09/19/17	PME7	<10	<0.25	**0.061**	**68**	**5.7**	<500	<10,000	6.6	30	12	-110	0.18	120	0.080	--
	CTMW-06S-20171004	10/04/17	PME8	<25	<0.25	**0.062**	**49**	**7.1**	<1,000	<10,000	6.5	28	12	-100	0.17	16	0.010	2.7
	CTMW-06S-20180306	03/06/18	PME9	**130**	<0.25	**0.028**	**7.9**	**1.4**	**100**	<50	**7.17**	25.89	5.60	-130	0.83	13.2	0.07	2.80
CTMW-06D	CTMW-06D-20170622	06/22/17	PME4	**1,000,000**	**15,000**	**17**	<0.050	**0.042**	**4,000,000**	<10,000	7.2	25	11	85	0.15	9.7	0.0	0.0
	CTMW-06D-20170717	07/17/17	PME5	**920,000**	**17,000**	**18**	<0.050	**0.035**	**3,900,000**	<10,000	7.0	31	13	87	0.63	7.1	0.0	0.0
	CTMW-06D-20170717-FD	07/17/17	PME5	**830,000**	**17,000**	**17**	**0.067 J**	**0.034**	**4,200,000**	<10,000	--	--	--	--	--	--	--	--
	CMTW-06D-20170822	08/22/17	PME6	**950,000**	**15,000**	**15**	0.63	**0.10**	**3,700,000**	<10,000	6.9	26	13	11	0.90	47	0.10	0.0
	CMTW-06D-20170919	09/19/17	PME7	**800,000**	**14,000**	**13**	**0.85**	**0.15**	**2,700,000**	<10,000	6.8	25	13	170	0.49	28	0.10	--
	CTMW-06D-20170919-FD	09/19/17	PME7	**810,000**	**13,000**	**13**	**0.79**	**0.15**	**2,600,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-06D-20171004	10/04/17	PME8	**970,000**	**12,000**	**13**	**0.83**	**0.19**	**3,100,000**	<10,000	6.6	27	12	180	0.55	91	0.24	0.27
	CTMW-06D-20171004-FD	10/04/17	PME8	**990,000**	**13,000**	**13**	**0.71**	**0.18**	**3,100,000**	<10,000	--	--	--	--	--	--	--	--
	CTMW-06D-20180307	03/07/18	PME9	**610,000**	**5,600**	**6.4**	**2.0**	**0.35**	**2,000,000**	<10,000	**7.02**	24.30	12.2	115	0.61	28.3	0.00	0.00
CTMW-07S	CTMW-07S-20171009	10/09/17	PME8	**Well dry**														
	CMTW-07S-20180306	03/06/18	PME9	**510,000 J-**	**13,000**	**14**	**0.41 J**	**0.092 J**	**3,200,000**	<10,000	7.38	24.97	9.60	163	2.96	8.9	0.00	0.00
CTMW-07D	CTMW-07D-20171009	10/09/17	PME8	**14,000**	**25**	**0.097**	**14**	**0.27**	**48,000**	<100	5.81	23.59	1.26	231	4.82	78.8	0.00	0.00
	CTMW-07D-20180306	03/06/18	PME9	**6,100**	**24**	**0.026**	**0.35 J+**	**0.11**	**16,000**	<100	9.68	23.99	1.44	0.73	-56	8.5	0.00	0.00

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Dissolved Metals by USEPA Method 6020 (µg/L)																	
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc
CTMW-01S	CTMW-01S-20170404	04/04/17	Baseline	<50	<5.0	**85**	**41**	<2.5	<2.5	**10,000**	<5.0	<5.0	<80	<5.0	**32**	**5.5 J**	<5.0	<5.0	<5.0	**38**	<50	<25
	CTMW-01S-20170503	05/03/17	PME1	**49**	**8.8**	**200**	**62**	<0.25	<0.25	**1,100**	**5.0**	**10**	**660**	<0.50	**510**	**51**	**2.5**	<0.50	<0.50	**200**	**3.5**	**9.3 J**
	CTMW-01S-20170516	05/16/17	PME2	**26**	**0.53 J**	**210**	**58**	<0.25	<0.25	**360**	**3.4**	**4.6**	**32**	**0.62 J**	**480**	**7.6**	**2.3**	<0.50	<0.50	**210**	**19**	**10 J**
	CTMW-01S-20170531	05/31/17	PME3	<50	<5.0	**350**	**75**	<2.5	<2.5	**150**	<5.0	<5.0	**780**	<5.0	**910**	**13 J**	<5.0	<5.0	<5.0	**190**	<10	<25
	CTMW-01S-20170619	06/19/17	PME4	<50	<5.0	**460**	**47**	<2.5	<2.5	**150**	**5.2 J**	**13 J**	**370**	<5.0	**2,600**	**61**	<5.0	<5.0	<5.0	**23**	<10	<25
	CTMW-01S-20170720	07/20/17	PME5	**48 J**	<2.5	**380**	**400**	<1.3	<1.3	**110**	**3.7 J**	**4.2 J**	**5,200**	<2.5	**4,500**	**37**	<2.5	<2.5	<2.5	**6.6**	<5.0	**17 J**
	CTMW-01S-20170824	08/24/17	PME6	<50	<5.0	**910**	**360**	<2.5	<2.5	**90**	<5.0	<5.0	**390**	<5.0	**2,300**	**30**	<5.0	<5.0	<5.0	**80**	**19 J**	<25
	CTMW-01S-20170920	09/20/17	PME7	<25	**4.2 J**	**700**	**570**	<1.3	<1.3	**67**	**2.8 J**	**3.0 J**	**220**	<2.5	**3,200**	**18**	<2.5	<2.5	<2.5	**44**	**8.1 J**	<13
	CTMW-01S-20171003	10/03/17	PME8	<25	<2.5	**440**	**610**	<1.3	<1.3	**59**	<2.5	**2.8 J**	**430**	<2.5	**3,000**	**15**	<2.5	<2.5	<2.5	**5.2**	<5.0	**16 J**
	CTMW-01S-20180305	03/05/18	PME9	<25	<2.5	**590**	**390**	<1.3	<1.3	**43**	<2.5	**7.2 J**	**250**	<2.5	**160**	**2.9 J**	<2.5	<2.5	<2.5	**16**	**6.1 J**	**13 J**
CTMW-01D	CTMW-01D-20170403	04/03/17	Baseline	<500	<50	<50	<50	<25	<25	**22,000**	<50	<50	<320	<50	<50	<50	<50	<50	<50	<50	<40	<250
	CTMW-01D-20170503	05/03/17	PME1	**36**	**0.96 J**	**20**	**47**	<0.25	<0.25	**28,000**	**0.77 J**	**2.5**	**65**	<0.50	**44**	**5.1**	**3.5**	<0.50	<0.50	**29**	<150	**6.7 J**
	CTMW-01D-20170516	05/16/17	PME2	**12**	<0.50	**21**	**43**	<0.25	<0.25 UJ	**21,000**	**0.83 J**	**2.3 J-**	**55**	**1.2**	**58 J-**	**6.6 J-**	**2.4 J-**	<0.50	<0.50	**30**	R	**9.5 J**
	CTMW-01D-20170531	05/31/17	PME3	<50	<5.0	**24**	**43**	<2.5	<2.5	**21,000**	<5.0	<5.0	<80	<5.0	**36**	**6.3 J**	<5.0	<5.0	<5.0	**43**	<10	<25
	CTMW-01D-20170619	06/19/17	PME4	<50	<5.0	**33**	**43**	<2.5	<2.5	**18,000**	<5.0	<5.0	<80	<5.0	**46**	<5.0	<5.0	<5.0	<5.0	**67**	R	<25
	CTMW-01D-20170720	07/20/17	PME5	<25	<2.5	**39**	**47**	<1.3	<1.3	**15,000**	<2.5	**3.5 J**	<40	<2.5	**85**	**8.0 J**	**7.3 J**	<2.5	<2.5	**140**	R	**32 J**
	CTMW-01D-20170720-FD	07/20/17	PME5	<25	<2.5	**43**	**49**	<1.3	<1.3	**17,000**	<2.5	**3.2 J**	**100**	<2.5	**88**	**7.6 J**	**6.8 J**	<2.5	<2.5	**140**	<5.0 L	<13
	CTMW-01D-20170824	08/24/17	PME6	<50	<5.0	**33**	**50**	<2.5	<2.5	**11,000**	<5.0	<5.0	<80	<5.0	**180**	**8.0 J**	**6.0 J**	<5.0	<5.0	**230**	<10 L	<25
	CTMW-01D-20170920	09/20/17	PME7	<25	<2.5	**32**	**51**	<1.3	<1.3	**12,000**	<2.5	**3.0 J**	**83 J**	<2.5	**200**	**7.4 J**	**5.3 J**	<2.5	<2.5	**230**	<5.0 L	<13
	CTMW-01D-20171003	10/03/17	PME8	**6.2 J**	**0.54 J**	**29**	**53**	<0.25	<0.25	**13,000**	**0.50 J**	**0.58 J**	<8.0	<0.50	**200**	**2.7**	**4.8**	<0.50	<0.50	**220**	**7.5**	**3.7 J**
	CTMW-01D-20180305	03/05/18	PME9	<25	<2.5	**40**	**270**	<1.3	<1.3	**8,600**	<2.5	<2.5	<40	<2.5	**760**	**4.7 J**	**4.7 J**	<2.5	<2.5	**240**	**10**	**45 J**
	CTMW-01D-20180305-FD	03/05/18	PME9	<25	<2.5	**37**	**270**	<1.3	<1.3	**8,400**	<2.5	**2.6 J**	<40	<2.5	**740**	**4.6 J**	<2.5	<2.5	<2.5	**220**	**9.9 J**	**50 J**
CTMW-02S	CTMW-02S-20170405	04/05/17	Baseline	<50	<5.0	**73**	**36**	<2.5	<2.5	**11,000**	<5.0	<5.0	<800 F1	<5.0	**38**	**11 J**	<5.0	<5.0	<5.0	**31**	<100	**86 J**
	CTMW-02S-20170504	05/04/17	PME1	**27**	**1.6 J**	**85**	**58**	<0.25	<0.25	**1,500**	**2.1**	**24**	**79**	<0.50	**290**	**11**	**1.6 J**	<0.50	<0.50	**200**	<150	**18 J**
	CTMW-02S-20170516	05/16/17	PME2	**6.3 J**	<0.50	**53**	**53**	<0.25	<0.25	**240**	**2.1**	**5.2**	**38**	<0.50	**270**	**22**	**2.4**	<0.50	<0.50	**260**	**20**	**13 J**
	CTMW-02S-20170601	06/01/17	PME3	**8.7 J**	<0.50	**110**	**40**	<0.25	<0.25	**580**	**1.3**	**5.1**	<8.0	<0.50	**180**	**4.4**	**2.2**	<0.50	<0.50	**380**	**13**	**5.1 J**
	CTMW-02S-20170620	06/20/17	PME4	<50	<5.0	**850**	**58**	<2.5	<2.5	**130**	<5.0	<5.0	**2,000**	<5.0	**1,000**	**19 J**	<5.0	<5.0	<5.0	**420**	**11 J**	<25
	CTMW-02S-20170719	07/19/17	PME5	<50	**5.0 J**	**640**	**350**	<2.5	<2.5	**42**	<5.0	<5.0	**6,800**	<5.0	**2,400**	**9.0 J**	<5.0	<5.0	<5.0	**63**	<10	<25
	Not Analyzed	08/24/17	PME6	**Well Dry; Unable to sample**																		
	CTMW-02S-20170920	09/20/17	PME7	<25	**3.0 J**	**530**	**360**	<1.3	<1.3	**46**	<2.5	**24**	**3,500**	<2.5	**1,200**	**11**	<2.5	<2.5	<2.5	**25**	**9.8 J**	**14 J**
	CTMW-02S-20171003	10/03/17	PME8	<10	**2.5 J**	**340**	**430**	<0.50	<0.50	**37**	<1.0	**18**	**340**	**1.2 J**	**850**	**5.9**	<1.0	<1.0	<1.0	**4.1**	**6.4**	**22 J**
	CTMW-02S-20180306	03/06/18	PME9	<25	**13**	**1,300**	**250**	<1.3	<1.3	**37**	<2.5	<2.5	**140**	<2.5	**590**	**6.8 J**	<2.5	<2.5	<2.5	**2.5 J**	**8.2 J**	<13
CTMW-02D	CTMW-02D-20170404	04/04/17	Baseline	<5.0	<0.50	**28**	**41**	<0.25	<0.25	**18,000**	**0.80 J**	**1.9 J**	<80	<0.50	**58**	**3.7**	**4.2 J-**	<0.50	<0.50	**39**	R	**3.6 J**
	CTMW-02D-20170404-FD	04/04/17	Baseline	**6.4 J**	<0.50	**28**	**39**	<0.25	<0.25	**18,000**	**0.76 J**	**1.8 J**	<80	<0.50	**55**	**3.9**	**3.6**	<0.50	<0.50	**36**	<100	**4.7 J**
	CTMW-02D-20170503	05/03/17	PME1	**30**	**1.0 J**	**36**	**44**	<0.25	<0.25	**20,000**	**0.81 J**	**1.8 J**	**64**	<0.50	**100**	**5.0**	**3.2**	<0.50	<0.50	**62**	<150	**9.3 J**
	CTMW-02D-20170503-FD	05/03/17	PME1	**40**	**0.91 J**	**38**	**47**	<0.25	<0.25	**22,000**	**0.84 J**	**1.9 J**	**81**	<0.50	**110**	**5.0**	**3.5**	<0.50	<0.50	**65**	<150	**9.8 J**
	CTMW-02D-20170517	05/17/17	PME2	<25	<2.5	**27**	**47**	<1.3	<1.3	**19,000**	<2.5	<2.5	**82 J**	<2.5	**86**	**5.6 J**	**4.9 J**	<2.5	<2.5	**86**	<200	**14 J**
	CTMW-02D-20170601	06/01/17	PME3	<50	<5.0	**39**	**52**	<2.5	<2.5	**21,000**	<5.0	<5.0	<80	<5.0	**120**	**6.5 J**	<5.0	<5.0	<5.0	**94**	<10	<25
	CTMW-02D-20170601-FD	06/01/17	PME3	<50	<5.0	**39**	**52**	<2.5	<2.5	**20,000**	<5.0	<5.0	<80	<5.0	**140**	**5.5 J**	<5.0	<5.0	<5.0	**100**	<10	<25
	CTMW-02D-20170619	06/19/17	PME4	<50	<5.0	**47**	**42**	<2.5	<2.5	**15,000**	<5.0	<5.0	<80	<5.0	**120**	<5.0	<5.0	<5.0	<5.0	**110**	<10	<25
	CTMW-02D-20170619-FD	06/19/17	PME4	<50	<5.0	**45**	**43**	<2.5	<2.5	**16,000**	<5.0	**6.6 J**	<80	<5.0	**120**	**5.4 J**	**5.4 J**	<5.0	<5.0	**110**	<10	<25
	CTMW-02D-20170719	07/19/17	PME5	<50	<5.0	**88**	**56**	<2.5	<2.5	**12,000**	<5.0	<5.0	<80 UJ	<5.0	**290**	**5.4 J**	<5.0	<5.0	<5.0	**150**	**R**	<25
	CTMW-02D-20170824	08/24/17	PME6	<50	<5.0	**48**	**66**	<2.5	<2.5	**15,000**	<5.0	<5.0	<80	<5.0	**400**	**9.2 J**	**7.8 J**	<5.0	<5.0	**130**	**R**	**33 J**
	CTMW-02D-20170920	09/20/17	PME7	<25	<2.5	**55**	**57**	<1.3	<1.3	**13,000**	<2.5	**3.0 J**	**60 J**	<2.5	**380**	**6.9 J**	**4.9 J**	<2.5	<2.5	**150**	**R**	<13
	CTMW-02D-20171003	10/03/17	PME8	<25	<2.5	**47**	**54**	<1.3	<1.3	**14,000**	<2.5	**16**	<40	<2.5	**320**	**7.3 J**	**3.4 J**	<2.5	<2.5	**140**	<5.0 UJ	**39 J**
	CTMW-02D-20180305	03/05/18	PME 9	<25	<2.5	**59**	**110**	<1.3	<1.3	**15,000**	<2.5	<2.5	<40	<2.5	**510**	**2.8 J**	**4.0 J**	<2.5	<2.5	**170**	**15**	<13

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Dissolved Metals by USEPA Method 6020 (µg/L)																	
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc
CTMW-03S	CTMW-03S-20170405	04/05/17	Baseline	<50	<5.0	**120**	**29**	<2.5	<2.5	**13,000**	<5.0	<5.0	<800	<5.0	**9.1 J**	<5.0	<5.0	<5.0	<5.0	**27**	<100	<25
	CTMW-03S-20170505	05/05/17	PME1	**26 J**	<2.5	**97**	**31**	<1.3	<1.3	**13,000**	<2.5	<2.5	<8.0	<2.5	**60**	**3.1 J**	**4.9 J**	<2.5	<2.5	**27**	<100	<13
	CTMW-03S-20170517	05/17/17	PME2	**30 J**	<2.5	**110**	**33**	<1.3	<1.3	**14,000**	<2.5	<2.5	100	<2.5	**68**	**3.3 J**	**3.9 J**	<2.5	<2.5	**31**	<200	**22 J**
	CTMW-03S-20170601	06/01/17	PME3	<50	<5.0	**140**	**45**	<2.5	<2.5	**17,000**	<5.0	<5.0	<80	<5.0	**87**	<5.0	<5.0	<5.0	<5.0	**43**	<10	<25
	CTMW-03S-20170620	06/20/17	PME4	**63 J**	<5.0	**160**	**51**	<2.5	<2.5	**4,800**	<5.0	<5.0	<80	<5.0	**320**	**10 J**	<5.0	<5.0	<5.0	**110**	<10	<25
	CTMW-03S-20170718	07/18/17	PME5	<25	<2.5	**130**	**43**	<1.3	<1.3	**16,000**	<2.5	<2.5	<40	<2.5	**240**	**4.9 J**	<2.5	<2.5	<2.5	**47**	<5.0	<13
	CTMW-03S-20170823	08/23/17	PME6	**9.2 J**	**0.51 J**	**180**	**61**	<0.25	<0.25	**4,600**	**3.1**	**4.0**	**36**	<0.50	**520**	**7.2**	**3.0**	**0.56 J**	<0.50	**98**	**R**	**8.1 J**
	CTMW-03S-20170921	09/21/17	PME7	<25	<2.5	**110**	**43**	<1.3	<1.3	**14,000**	<2.5	**4.9 J**	<40	<2.5	**330**	**4.6 J**	**8.6 J**	**57 J-**	<2.5	**44**	**R**	<13
	CTMW-03S-20171003	10/03/17	PME8	<25	<2.5	**120**	**42**	<1.3	<1.3	**13,000**	<2.5	**29**	<40	<2.5	**320**	**6.5 J**	**3.9 J**	<2.5	<2.5	**45**	**41**	**31 J**
CTMW-03D	CTMW-03D-20170406	04/06/17	Baseline	**110 J-**	<5.0	**100**	**32**	<2.5	<2.5	**16,000**	<5.0	<5.0	<80	<5.0	**36**	<5.0	<5.0	<5.0	<5.0	**29**	R	**36 J**
	CTMW-03D-20170505	05/05/17	PME1	<25	<2.5	**98**	**30**	<1.3	<1.3	**14,000**	<2.5	**4.3 J**	**9.1 J**	<2.5	**24**	<2.5	**5.8 J**	**12**	<2.5	**32**	R	<13
	CTMW-03D-20170517	05/17/17	PME2	<25	<2.5	**110**	**31**	<1.3	<1.3	**15,000**	<2.5	**3.1 J**	**42 J**	<2.5	**22**	**3.9 J**	**5.3 J**	<2.5	<2.5	**36**	R	**44 J**
	CTMW-03D-20170601	06/01/17	PME3	<50	<5.0	**120 J+**	**36**	<2.5	<2.5	**16,000**	<5.0	<5.0	<80	<5.0	**26**	**5.7 J**	<5.0	<5.0	<5.0	**40**	R	<25
	CTMW-03D-20170620	06/20/17	PME4	<50	<5.0	**100**	**29**	<2.5	<2.5	**14,000**	<5.0	<5.0	<80	<5.0	**22**	<5.0	<5.0	<5.0	<5.0	**46**	<10	<25
	CTMW-03D-20170720	07/20/17	PME5	<50	<5.0	**110**	**31**	<2.5	<2.5	**15,000**	<5.0	<5.0	<80	<5.0	**25**	<5.0	**5.7 J**	<5.0	<5.0	**52**	<10	<25
	CTMW-03D-20170823	08/23/17	PME6	<25	<2.5	**110**	**31**	<1.3	<1.3	**14,000**	<2.5	<2.5	**89 J**	<2.5	**23**	**3.8 J**	**5.3 J**	<2.5	<2.5	**63**	<5.0	<13
	CTMW-03D-20170921	09/21/17	PME7	<25	<2.5	**100**	**29**	<1.3	<1.3	**13,000**	<2.5	<2.5	<40	<2.5	**25**	**3.1 J**	**6.0 J**	<2.5	<2.5	**49**	<5.0	<13
	CTMW-03D-20171003	10/03/17	PME8	<25	<2.5	**92**	**27**	<1.3	<1.3	**13,000**	<2.5	**18**	<40	<2.5	**22**	**3.3 J**	**3.4 J**	<2.5	<2.5	**48**	<5.0 UJ	**29 J**
CTMW-04S	CTMW-04S-20170405	04/05/17	Baseline	<50	<5.0	**65**	**33**	<2.5	<2.5	**9,900**	<5.0	<5.0	<800	<5.0	**38**	**7.2 J**	<5.0	<5.0	<5.0	**34**	<100	<25
	CTMW-04S-20170504	05/04/17	PME1	**41**	**0.89 J**	**120**	**35**	<0.25	<0.25	**6,000**	**1.2**	**1.5 J**	**100**	<0.50	**150**	**4.3**	**3.0**	<0.50	<0.50	**130**	<150	**5.5 J**
	CTMW-04S-20170517	05/17/17	PME2	**20**	<0.50	**130**	**44**	<0.25	<0.25	**550**	**2.0**	**2.3**	**29**	<0.50	**320**	**6.3**	**2.7**	<0.50	<0.50	**260**	17	**7.1 J**
	CTMW-04S-20170602	06/02/17	PME3	**11**	<0.50	**170**	**40**	<0.25	<0.25	**710**	**1.6**	**3.1**	**54**	<0.50	**290**	**6.5**	**2.0**	<0.50	<0.50	**230**	**9.6**	**11 J**
	CTMW-04S-20170620	06/20/17	PME4	<50	<5.0	**130**	**43**	<2.5	<2.5	**180**	**5.1 J**	<5.0	**140 J**	<5.0	**460**	**130**	<5.0	<5.0	<5.0	**320**	**16 J**	**26 J**
	CTMW-04S-20170718	07/18/17	PME5	<25	<2.5	**510**	**57**	<1.3	<1.3	**200**	**5.3**	<2.5	**170**	<2.5	**1,200**	**53**	<2.5	<2.5	<2.5	**480**	**6.4 J**	<13
	CTMW-04S-20170823	08/23/17	PME6	**16**	**2.1**	**440**	**99**	<0.25	<0.25	**120**	**1.5**	**1.6 J**	**460**	<0.50	**1,800**	**7.6**	**1.4 J**	<0.50	<0.50	**140**	**4.2**	**16 J**
	CTMW-04S-20170921	09/21/17	PME7	**26**	**1.3 J**	**370**	**100**	<0.50	<0.50	**86**	<1.0	**1.9 J**	**530**	<1.0	**1,400**	**160**	**1.3 J**	<1.0	<1.0	**40**	**3.8 J**	**5.0 J**
	CTMW-04S-20171003	10/03/17	PME8	<25	<2.5	**150**	**200**	<1.3	<1.3	**70**	<2.5	**13**	**62 J**	<2.5	**2,000**	**2.5 J**	<2.5	<2.5	<2.5	**190**	<5.0	**21 J**
	CTMW-04S-20180307	03/07/18	PME9	**20 J+**	**0.93 J**	**66**	**130**	<0.25	<0.25	**2,000**	**2.9**	**1.0 J**	**41**	<0.50 UJ	**930**	**6.2 J-**	**3.9**	<0.50	**0.99 J**	**150**	**42**	**7.4 J**
CTMW-04D	CTMW-04D-20170405	04/05/17	Baseline	<50	<5.0	**72**	**39**	<2.5	<2.5	**18,000**	<5.0	<5.0	<800	<5.0	**16**	<5.0	<5.0	<5.0	<5.0	**32**	<100	<25
	CTMW-04D-20170504	05/04/17	PME1	**28**	<0.50	**78**	**45**	<0.25	<0.25	**22,000**	**0.50 J**	**1.5 J**	**52**	<0.50	**15**	**3.1**	**3.3 J-**	<0.50	<0.50	**33**	R	**17 J**
	CTMW-04D-20170517	05/17/17	PME2	<25	<2.5	**92**	**41**	<1.3	<1.3	**19,000**	<2.5	<2.5	**71 J**	<2.5	**11**	**3.5 J**	<2.5	<2.5	<2.5	**33**	<250	<13
	CTMW-04D-20170517-FD	05/17/17	PME2	<25	<2.5	**95**	**43**	<1.3	<1.3	**20,000**	<2.5	<2.5	**65 J**	<2.5	**12**	**3.8 J**	**4.0 J**	<2.5	<2.5	**35**	<250	<13
	CTMW-04D-20170602	06/02/17	PME3	<50	<5.0	**110**	**49**	<2.5	<2.5	**22,000**	<5.0	<5.0	<80	<5.0	**22**	**5.8 J**	<5.0	<5.0	<5.0	**50**	<10	<25
	CTMW-04D-20170621	06/21/17	PME4	<50	<5.0	**80**	**40**	<2.5	<2.5	**18,000**	<5.0	<5.0	<80	<5.0	**11**	<5.0	<5.0	<5.0	<5.0	**32**	<10	<25
	CTMW-04D-20170718	07/18/17	PME5	<25	<2.5	**120**	**51**	<1.3	<1.3	**23,000**	<2.5	<2.5	<40	<2.5	**14**	**4.8 J**	**3.4 J**	<2.5	<2.5	**42**	<5.0	<13
	CTMW-04D-20170823	08/23/17	PME6	<25	<2.5	**93**	**41**	<1.3	<1.3	**18,000**	<2.5	<2.5	**100**	<2.5	**14 J**	**4.5 J**	**5.6 J**	<2.5	<2.5	**34**	<5.0	<13
	CTMW-04D-20170823-FD	08/23/17	PME6	<25	<2.5	**90**	**40**	<1.3	<1.3	**17,000**	<2.5	<2.5	**100**	<2.5	**21 J**	**4.7 J**	**5.1 J**	<2.5	<2.5	**32**	<5.0	<13
	CTMW-04D-20170920	09/20/17	PME7	<25	<2.5	**110**	**40**	<1.3	<1.3	**17,000**	<2.5	<2.5	**90 J**	<2.5	**11**	**4.8 J**	**5.2 J**	<2.5	<2.5	**43**	<5.0	<13
	CTMW-04D-20171003	10/03/17	PME8	**55**	<2.5	**110**	**40**	<1.3	<1.3	**17,000**	<2.5	**8.6 J**	<40	<2.5	**9.4**	**4.0 J**	**3.2 J**	<2.5	<2.5	**45**	<5.0 UJ	**19 J**
	CTMW-04D-20180307	03/07/18	PME9	**30 J**	<2.5	**96**	**63**	<1.3	<1.3	**13,000**	<2.5	<2.5	<40	<2.5	**27**	<2.5	**4.3 J**	<2.5	<2.5	**60**	**17**	<13
CTMW-05S	CTMW-05S-20170621	06/21/17	PME4	<50	<5.0	**88**	**50**	<2.5	<2.5	**4,900**	<5.0	<5.0	<80	<5.0	**190**	<5.0	<5.0	<5.0	<5.0	**170**	<10	<25
	CTMW-05S-20170717	07/17/17	PME5	<25	<2.5	**130**	**54**	<1.3	<1.3	**3,000**	<2.5	<2.5	<40	<2.5	**260**	**5.5 J**	<2.5	<2.5	<2.5	**250**	<5.0	<13
	CTMW-05S-20170822	08/22/17	PME6	**120**	<0.50	**110**	**56**	<0.25	<0.25	**3,200**	**1.2**	**1.9 J**	**80**	<0.50	**210**	**4.1**	**4.1**	<0.50	<0.50	**160**	<1.0	**5.5 J**
	CTMW-05S-20170919	09/19/17	PME7	<10	<1.0	**140**	**53**	<0.50	<1.3	**2,100**	**1.3 J**	**2.8 J**	<16	<1.0	**230**	**4.9**	**4.2**	<1.0	<1.0	**170**	<10	**9.3 J**
	CTMW-05S-20171004	10/04/17	PME8	**530**	<0.50	**110**	**49**	<0.25	<0.25	**6,500**	**0.52 J**	85	**17 J**	8.0	**190**	**2.6**	**3.3**	<0.50	<0.50	**110**	20	**74**

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Dissolved Metals by USEPA Method 6020 (µg/L)																	
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc
CTMW-05D	CTMW-05D-20170621	06/21/17	PME4	<50	<5.0	**85**	**34**	<2.5	<2.5	**14,000**	<5.0	<5.0	<80	<5.0	**16**	<5.0	<5.0	<5.0	<5.0	**40**	<10	<25
	CTMW-05D-20170621-FD	06/21/17	PME4	<50	<5.0	**94**	**33**	<2.5	<2.5	**14,000**	<5.0	<5.0	<80	<5.0	**19**	<5.0	**18 J**	<5.0	<5.0	**37**	<10	<25
	CTMW-05D-20170718	07/18/17	PME5	<25	<2.5	**130**	**46**	<1.3	<1.3	**19,000**	<2.5	<2.5	<40	<2.5	**21**	**3.5 J**	**6.1 J**	<2.5	<2.5	**57 J+**	**R**	<13
	CTMW-05D-20170822	08/22/17	PME6	**92 J**	<5.0	**110**	**34**	<2.5	<2.5	**14,000**	<5.0	<5.0	**130 J**	<5.0	**12**	**5.2 J**	**6.6 J**	<5.0	<5.0	**52**	<10	<25
	CTMW-05D-20170919	09/19/17	PME7	<25	<2.5	**120**	**36**	<1.3	<5.0	**14,000**	<2.5	<2.5	<40	<2.5	**21**	**3.9 J**	**5.6 J**	<2.5	<2.5	**56**	<100	<13
	CTMW-05D-20171004	10/04/17	PME8	<25	**3.6 J**	**110**	**34**	<1.3	<1.3	**13,000**	<2.5	**16 J-**	<40	<2.5	**17**	<2.5	**5.2 J**	<2.5	<2.5	**60**	**21**	**25 J**
CTMW-06S	CTMW-06S-20170621	06/21/17	PME4	**56 J**	<5.0	**190**	**210**	<2.5	<2.5	**160**	<5.0	<5.0	**110 J**	<5.0	**1,600**	**15 J**	**8.3 J**	<5.0	<5.0	**450**	<10	<25
	CTMW-06S-20170717	07/17/17	PME5	<25	**4.0 J**	**660**	**1,100**	<1.3	<1.3	**120**	**3.1 J**	<2.5	<40	<2.5	**4,300**	**34**	<2.5	<2.5	<2.5	**370**	11	<13
	CTMW-06S-20170822	08/22/17	PME6	**58**	**1.6 J**	**120**	**1,400**	<0.25	<0.25	**62**	**3.9**	**1.7 J**	**410**	<0.50	**4,700**	**11**	**1.2 J**	<0.50	<0.50	**19**	2.7	**5.9 J**
	CTMW-06S-20170919	09/19/17	PME7	**43**	**1.9 J**	**190**	**1,200**	<0.50	<0.50	**53**	**1.3 J**	**2.9 J**	**210**	<1.0	**5,400**	**8.2**	**1.1 J**	<1.0	<1.0	**1.4 J**	**2.0 J**	**16 J**
	CTMW-06S-20171004	10/04/17	PME8	**7.2 J**	**2.1**	**210**	**920**	<0.25	<0.25	**47**	<0.50	<0.50	**100**	<0.50	**5,600**	**4.1**	**0.82 J**	<0.50	<0.50	**1.3**	**1.4 J**	**3.3 J**
	CTMW-06S-20180306	03/06/18	PME9	<25	<2.5	**430**	**510**	<1.3	<1.3	**27**	<2.5	<2.5	**89 J**	<2.5	**1,500**	**3.3 J**	<2.5	<2.5	<2.5	**5.6**	<5.0	<13
CTMW-06D	CTMW-06D-20170622	06/22/17	PME4	<10	<1.0	**74**	**37**	<0.50	<0.50	**18,000**	<1.0	**1.9 J**	**96 J**	<1.0	**50**	**3.6 J**	**3.4 J**	<1.0	<1.0	**74**	<10	**7.2 J**
	CTMW-06D-20170717	07/17/17	PME5	<25	<2.5	**110**	**46**	<1.3	<1.3	**22,000**	<2.5	<2.5	<40	<2.5	**61**	**4.7 J**	**2.9 J**	<2.5	<2.5	**110**	<5.0	<13
	CTMW-06D-20170717-FD	07/17/17	PME5	<25	<2.5	**110**	**46**	<1.3	<1.3	**23,000**	<2.5	**3.8 J**	<40	<2.5	**55**	**5.4 J**	**3.8 J**	<2.5	<2.5	**110**	<5.0	<13
	CMTW-06D-20170822	08/22/17	PME6	<50	<5.0	**90**	**40**	<2.5	<2.5	**15,000**	<5.0	<5.0	<80	<5.0	**92**	**8.0 J**	**7.4 J**	<5.0	<5.0	**130**	R	<25
	CMTW-06D-20170919	09/19/17	PME7	<25	<2.5	**99**	**46**	<1.3	<5.0	**13,000**	<2.5	<2.5	<40	<2.5	**140**	**5.8 J**	**11**	**36 J**	<2.5	**160**	R	<13
	CTMW-06D-20170919-FD	09/19/17	PME7	<25	<2.5	**100**	**46**	<1.3	<5.0	**13,000**	<2.5	<2.5	<40	<2.5	**140**	**5.7 J**	**5.1 J**	<2.5 UJ	<2.5	**160**	**R**	<13
	CTMW-06D-20171004	10/04/17	PME8	<25	<2.5	**110**	**64**	<1.3	<1.3	**12,000**	<2.5	<2.5	<40	<2.5	**180**	**2.7 J**	**4.1 J**	<2.5	<2.5	**170**	**19**	<13
	CTMW-06D-20171004-FD	10/04/17	PME8	**35 J**	<2.5	**120**	**64**	<1.3	<1.3	**12,000**	<2.5	<2.5	<40	<2.5	**180**	**2.6 J**	**4.3 J**	<2.5	<2.5	**180**	**20**	<13
	CTMW-06D-20180307	03/07/18	PME9	**23 J+**	<0.50	**94**	**310**	<0.25	<0.25	**4,600**	**0.55 J**	<0.50	**33**	<0.50	**280**	**3.1**	**2.3**	<0.50	<0.50	**160**	**10**	**5.0 J**
CTMW-07S	CTMW-07S-20171009	10/09/17	PME8	**Well dry**																		
	CMTW-07S-20180306	03/06/18	PME9	<25	<2.5	**120**	**30**	<1.3	<1.3	**14,000**	<2.5	**3.6 J**	<40	<2.5	**61**	<2.5	**5.5 J**	**38 J-**	<2.5	**47**	44	**40 J**
CTMW-07D	CTMW-07D-20171009	10/09/17	PME8	**30**	**1.1 J**	**14**	**12**	<0.25	<0.25	**23**	<0.50	**0.55 J**	**20 J+**	<0.50	**5.9**	**0.68 J**	**2.1**	<0.50	<0.50	**5.0**	**7.1**	**2.5 J**
	CTMW-07D-20180306	03/06/18	PME9	<25	<2.5	<2.5	**63**	<1.3	<1.3	**27**	<2.5	**5.2 J**	<40	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	<13

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	General Chemistry (mg/L)											Dissolved Methane (mg/L)	Anions by USEPA Method 300.0 (mg/L)		
				Alkalinity as $CaCO_3$	Bicarbonate Alkalinity as $CaCO_3$	Chemical Oxygen Demand	Total Organic Carbon	Total Sulfide	Total Kjeldahl Nitrogen	Total Phosphorus	Total Dissolved Solids	Hardness as $CaCO_3$	Orthophosphate as P	Orthophosphorus as PO_4		Chloride	Nitrate as N	Sulfate
CTMW-01S	CTMW-01S-20170404	04/04/17	Baseline	200	200	--	2.4	0.024 J	<0.10	0.026 J	8,200	1,700	0.067 J-	0.21 J-	<0.00025	790	120	1,400
	CTMW-01S-20170503	05/03/17	PME1	2,000	2,000	7,100	2,300	<0.020	<2.5	0.52	12,000	3,700	0.34	1.0	<0.00025	950	210	1,400
	CTMW-01S-20170516	05/16/17	PME2	2,600	2,600	12,000	3,000	<0.020	0.76	0.37	11,000	3,300	0.72	2.2	<0.00025	940	55	1,200
	CTMW-01S-20170531	05/31/17	PME3	2,300	2,300	7,200	2,000	3.9	0.20	0.49 J-	10,000	3,100	1.2 J-	3.7 J-	<0.00025	1,500	2.6	1,100
	CTMW-01S-20170619	06/19/17	PME4	5,300	5,300	22,000	6,600	0.36 J-	190 J-	24 J-	18,000	5,700	18 J-	54 J-	<0.00025	1,300	9.5	740
	CTMW-01S-20170720	07/20/17	PME5	6,300	6,300	26,000	9,000	1.2	47	3.4	20,000	11,000	0.65	2.0	0.16	1,500	<0.55	140
	CTMW-01S-20170824	08/24/17	PME6	3,700	3,700	17,000 J-	6,700	<0.027	9,500 J-	5.5	17,000	3,900	5.6 J-	17 J-	0.15	1,300	4.8 J	1,000
	CTMW-01S-20170920	09/20/17	PME7	5,200	5,200	19,000	6,200	0.035 J	240	0.79 J	17,000	4,800	0.76	2.3	0.95	970	<1.1	<130
	CTMW-01S-20171003	10/03/17	PME8	2,700	2,700	17,000	6,300 J-	0.47	210	5.2	16,000	4,300	0.47	1.4	1.8 J-	1,100	<0.55	76
	CTMW-01S-20180305	03/05/18	PME9	3,700	3,700	--	1,200 J	0.031 J	140	1.3	7,300	2,700	0.27	0.83	2.9 J-	780	<1.1	<5.0
CTMW-01D	CTMW-01D-20170403	04/03/17	Baseline	140	140	--	25	0.044 J	<0.10	0.054	14,000	3,400	0.17	0.52	<0.00025	1,900	20	1,900
	CTMW-01D-20170503	05/03/17	PME1	130	130	<20	8.0	0.030 J	<0.10	0.11	14,000	3,600	0.082	0.25	<0.00025	1,900	21	1,800
	CTMW-01D-20170516	05/16/17	PME2	140	140	<20	9.8	<0.020	<0.10	<0.025	15,000	3,500	0.082	0.25	<0.00025	1,700	22	1,700
	CTMW-01D-20170531	05/31/17	PME3	160	160	<50	16	<0.30	<0.10	0.035 J	15,000	3,600	0.051 J-	0.16 J-	<0.00025	1,700	20	1,600
	CTMW-01D-20170619	06/19/17	PME4	290	290	R	11	R	R	0.028 J	14,000	3,400	0.085 J-	0.26 J-	<0.00025	1,700	17	1,700
	CTMW-01D-20170720	07/20/17	PME5	400	400	<50	66	<0.14	<0.10	0.029 J	12,000	3,700	0.080 J-	0.24 J-	0.00040 J	2,000	14	1,700
	CTMW-01D-20170720-FD	07/20/17	PME5	380	380	<50	66	<0.27	<0.10	0.030 J	12,000	3,600	0.10 J-	0.31 J-	<0.00025	2,000	14	1,700
	CTMW-01D-20170824	08/24/17	PME6	740	740	480 J-	350	<0.027	<0.10	0.22	13,000	4,000	0.10 J-	0.31 J-	0.014	2,300	9.9	1,700
	CTMW-01D-20170920	09/20/17	PME7	640	640	410	430	<0.027	<0.10	0.16	14,000	4,000	0.20	0.61	0.29	2,100	12	1,600
	CTMW-01D-20171003	10/03/17	PME8	920	920	630	440 J-	<0.027	<0.50	0.099	13,000	4,000	0.20	0.62	0.038	2,000	11	1,600
	CTMW-01D-20180305	03/05/18	PME9	890	890	--	340	<0.027	<0.10	0.090	10,000	3,100	0.072 J	0.22 J	0.039	1,800	6.0	990
	CTMW-01D-20180305-FD	03/05/18	PME9	890	890	--	340	<0.027	<0.10	0.083	10,000	3,100	0.17 J	0.51 J	0.050	1,900	5.0 J	990
CTMW-02S	CTMW-02S-20170405	04/05/17	Baseline	160	160	--	2.0	<0.020	<0.10	<0.025	8,400	1,500	0.057	0.18	<0.00025	780	160	1,500
	CTMW-02S-20170504	05/04/17	PME1	940	940	58	53	<0.080	<0.10	0.26	10,000	2,500	0.15 J-	0.46 J-	<0.00025	1,300	540	1,500
	CTMW-02S-20170516	05/16/17	PME2	1,200	1,200	37 J	14	<0.020	<0.10	0.39	10,000	2,400	0.19	0.59	<0.00025	1,200	530	1,400
	CTMW-02S-20170601	06/01/17	PME3	1,200	1,200	140	15	<0.14	R	0.26 J-	8,700	1,900	0.27 J-	0.81 J-	<0.00025	1,300	320	1,500
	CTMW-02S-20170620	06/20/17	PME4	3,300	3,300	5,200	1,500	0.090	16	2.1	9,900	2,400	1.2	3.7	0.027	1,500	<1.1	890
	CTMW-02S-20170719	07/19/17	PME5	3,800	3,800	5,400	2,300	0.16	23	2.6	11,000	2,700	0.56 J-	1.7 J-	0.15	1,400	0.63 J	29
	Not Analyzed	08/24/17	PME6	Well Dry; Unable to sample														
	CTMW-02S-20170920	09/20/17	PME7	5,900	5,900	5,400	2,000	<0.027	65	1.8	11,000	2,500	0.39	1.2	1.9	1,600	<0.28	17
	CTMW-02S-20171003	10/03/17	PME8	2,400	2,400	5,700	1,900 J-	0.29	68	1.1	10,000	2,400	0.54	1.7	2.3 J-	1,600	<1.1	6.5 J
	CTMW-02S-20180306	03/06/18	PME9	2,000	2,000	--	35 J	0.078	53	1.9	4,600	850	0.53	1.6	3.9 J-	1,600	<1.1	6.7 J
CTMW-02D	CTMW-02D-20170404	04/04/17	Baseline	190	190	--	18	0.052	<0.10	0.045 J	11,000	2,500	0.074 J-	0.23 J-	<0.00025	1,300	34	1,700
	CTMW-02D-20170404-FD	04/04/17	Baseline	190	190	--	18	0.025 J	<0.10	0.051	12,000	2,400	0.081 J-	0.25 J-	<0.00025	1,200	31	1,600
	CTMW-02D-20170503	05/03/17	PME1	270	270	<20	12	<0.20	<0.10	<0.025	13,000	2,900	0.052	0.16	<0.00025	1,500	30	1,700
	CTMW-02D-20170503-FD	05/03/17	PME1	270	270	<20	12	<0.020	<0.10	0.025 J	12,000	2,900	0.052	0.16	<0.00025	1,600	29	1,700
	CTMW-02D-20170517	05/17/17	PME2	340	340	<20	11	<0.50	R	0.030 J	13,000	3,200	0.064 J-	0.19 J-	<0.00025	1,500	26	1,500
	CTMW-02D-20170601	06/01/17	PME3	290	290	<50	6.2	<0.27	R	0.029 J	13,000	3,200	0.065 J-	0.20 J-	<0.00025	1,500	25	1,600
	CTMW-02D-20170601-FD	06/01/17	PME3	320	320	<50	7.5	<0.38	R	0.029 J	13,000	3,100	0.065 J-	0.20 J-	<0.00025	1,500	25	1,500
	CTMW-02D-20170619	06/19/17	PME4	450	450	R	90	R	R	R	12,000	3,100	0.033 J	0.10 J	0.00041 J	1,500	22	1,600
	CTMW-02D-20170619-FD	06/19/17	PME4	420	420	R	88	R	R	R	12,000	3,100	0.035 J	0.11 J	0.00054 J	1,600	22	1,600
	CTMW-02D-20170719	07/19/17	PME5	890	890	<50	150	<0.054	<0.10	0.027 J	12,000	3,100	0.12 J-	0.35 J-	0.00038 J	1,800	5.8	1,300
	CTMW-02D-20170824	08/24/17	PME6	540	540	R	17	<0.027	R	0.11	13,000	3,300	0.10 J-	0.32 J-	0.079	2,000	18	1,600
	CTMW-02D-20170920	09/20/17	PME7	510	510	<50	8.6	<0.027	<0.10	0.095	12,000	3,300	0.21 J	0.65 J	0.11	2,000	14	1,400
	CTMW-02D-20171003	10/03/17	PME8	590	590	<20	7.8	<0.027	<0.50	<0.025	12,000	3,300	0.11	0.34	0.058	1,900	17	1,500
	CTMW-02D-20180305	03/05/18	PME 9	410	410	--	6.5	<0.027	<0.10	<0.025	12,000	3,100	0.081	0.25	0.090	1,800	18	1,600

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	General Chemistry (mg/L)											Dissolved Methane (mg/L)	Anions by USEPA Method 300.0 (mg/L)		
				Alkalinity as $CaCO_3$	Bicarbonate Alkalinity as $CaCO_3$	Chemical Oxygen Demand	Total Organic Carbon	Total Sulfide	Total Kjeldahl Nitrogen	Total Phosphorus	Total Dissolved Solids	Hardness as $CaCO_3$	Orthophosphate as P	Orthophosphorus as PO_4		Chloride	Nitrate as N	Sulfate
CTMW-03S	CTMW-03S-20170405	04/05/17	Baseline	**140**	**140**	--	**1.8**	<0.020	<0.10	<0.025	**8,700**	**1,700**	**0.036 J**	**0.11 J**	<0.00025	**940**	**55**	**1,500**
	CTMW-03S-20170505	05/05/17	PME1	**200**	**200**	<20	**2.4**	<0.020	<0.10	<0.025	**9,600**	**1,900**	**0.081 J-**	**0.25 J-**	<0.00025	**1,000**	**27**	**1,600**
	CTMW-03S-20170517	05/17/17	PME2	**190**	**190**	<20	**2.5**	<0.50	R	R	**9,500**	**1,900**	**0.053 J-**	**0.16 J-**	<0.00025	**960**	**31**	**1,500**
	CTMW-03S-20170601	06/01/17	PME3	**200**	**200**	<50	**2.1**	<0.27	R	**0.028 J**	**9,800**	**1,900**	**0.059 J-**	**0.18 J-**	<0.00025	**1,000**	**38**	**1,500**
	CTMW-03S-20170620	06/20/17	PME4	**1,200**	**1,200**	**850**	**250**	<0.14	<0.10	**0.88**	**10,000**	**2,400**	**0.44**	**1.4**	<0.00025	**1,700**	**34**	**1,600**
	CTMW-03S-20170718	07/18/17	PME5	**320**	**320**	**R**	**5.4**	**0.077 J-**	**R**	**0.046 J**	**9,400**	**2,000**	**0.17 J-**	**0.51 J-**	**0.0033**	**1,100**	**30**	**1,600**
	CTMW-03S-20170823	08/23/17	PME6	**880**	**880**	<20	**39**	<0.027	<0.10	**0.18**	**9,600**	**2,200**	**0.10**	**0.31**	**0.025**	**1,800**	**17**	**1,400**
	CTMW-03S-20170921	09/21/17	PME7	**300**	**300**	<50	**2.8**	<0.027	<0.10	**0.094**	**10,000**	**2,000**	**0.18 J-**	**0.54 J-**	**0.014**	**1,100**	**26**	**1,500**
	CTMW-03S-20171003	10/03/17	PME8	**370**	**370**	<20	**2.6**	<0.027	<0.50	**0.049 J**	**10,000**	**2,000**	**0.16**	**0.48**	**0.41**	**1,100**	**26**	**1,500**
CTMW-03D	CTMW-03D-20170406	04/06/17	Baseline	**130**	**130**	--	**2.7**	<0.020	<0.10	<0.025	**9,600**	**1,800**	**0.038 J**	**0.12 J**	<0.00025	**1,100**	**47**	**1,600**
	CTMW-03D-20170505	05/05/17	PME1	**150**	**150**	<20	**3.0**	<0.020	<0.10	<0.025	**11,000**	**1,700**	**0.044 J**	**0.14 J**	<0.00025	**1,100**	**48**	**1,600**
	CTMW-03D-20170517	05/17/17	PME2	**150**	**150**	R	**2.5**	<0.50	R	R	**9,800**	**1,700**	**0.033 J**	**0.10 J**	<0.00025	**960**	**41**	**1,500**
	CTMW-03D-20170601	06/01/17	PME3	**160**	**160**	<50 UJ	**2.0**	<0.27	R	<0.025 UJ	**9,900**	**1,700**	**0.031 J**	**0.094 J**	<0.00025	**1,000**	**34**	**1,500**
	CTMW-03D-20170620	06/20/17	PME4	**170**	**170**	<20	**2.2**	<0.081	<0.10	<0.025	**9,700**	**1,700**	**0.022 J**	**0.068 J**	<0.00025	**1,200**	**33**	**1,600**
	CTMW-03D-20170720	07/20/17	PME5	**180**	**180**	<20	**2.0**	<0.054	<0.10	<0.025	**10,000**	**1,800**	**0.064 J-**	**0.20 J-**	<0.00025	**1,100**	**27**	**1,500**
	CTMW-03D-20170823	08/23/17	PME6	**170**	**170**	<20	**2.0**	<0.027	<0.10	**0.040 J**	**9,900**	**1,700**	**0.042 J**	**0.13 J**	**0.030**	**1,100**	**23**	**1,500**
	CTMW-03D-20170921	09/21/17	PME7	**150**	**150**	<50	**1.9**	<0.027	<0.10	<0.025	**9,800**	**1,700**	**0.055 J-**	**0.17 J-**	**0.0084**	**1,100**	**23**	**1,500**
	CTMW-03D-20171003	10/03/17	PME8	**180**	**180**	<20	**2.8**	<0.027	<0.50	<0.025	**9,700**	**1,700**	**0.058**	**0.18**	**0.0096**	**1,100**	**24**	**1,500**
CTMW-04S	CTMW-04S-20170405	04/05/17	Baseline	**180**	**180**	--	**2.0**	<0.020	<0.10	**0.037 J**	**8,200**	**1,700**	**0.078**	**0.24**	<0.00025	**780**	**150**	**1,500**
	CTMW-04S-20170504	05/04/17	PME1	**730**	**730**	<20	**56**	<0.020	<0.10	**0.095**	**8,700**	**2,000**	**0.049 J**	**0.15 J-**	<0.00025	**1,100**	**120**	**1,500**
	CTMW-04S-20170517	05/17/17	PME2	**1,600**	**1,600**	**1,100**	**250**	<0.50	R	**0.32 J-**	**8,800**	**2,600**	**0.54 J-**	**1.6 J-**	<0.00025	**1,500**	**93**	**1,400**
	CTMW-04S-20170602	06/02/17	PME3	**1,400**	**1,400**	**360**	**58**	<0.11	<0.10	**0.41 J-**	**9,600**	**2,500**	**0.067 J-**	**0.21 J-**	<0.00025	**1,500**	**51**	**1,400**
	CTMW-04S-20170620	06/20/17	PME4	**1,600**	**1,600**	**820**	**170**	<0.054	<0.10	**0.43**	**8,300**	**2,300**	**0.23**	**0.69**	<0.00025	**1,800**	**18**	**1,500**
	CTMW-04S-20170718	07/18/17	PME5	**1,900**	**1,900**	**980**	**320**	**0.073 J-**	**R**	**0.38 J-**	**7,600**	**2,400**	**0.51 J-**	**1.6 J-**	**0.0037**	**1,900**	<1.1	**1,100**
	CTMW-04S-20170823	08/23/17	PME6	**2,900**	**2,900**	**3,000**	**1,800**	**0.41**	<0.10	**0.97**	**9,300**	**2,700**	**1.0**	**3.1**	**0.0052**	**2,000**	<1.1	**190**
	CTMW-04S-20170921	09/21/17	PME7	**1,600**	**1,600**	**1,400**	**820**	<0.027	**1.8**	**1.3**	**8,000**	**2,400**	**0.036 J**	**0.11 J**	<0.00025	**2,200**	<1.1	**390 J+**
	CTMW-04S-20171003	10/03/17	PME8	**2,100**	**2,100**	**440**	**140 J-**	**0.47**	<0.50	**1.0**	**8,000**	**2,300**	**0.43**	**1.3**	**0.094 J-**	**2,300**	**5.3 J**	**920**
	CTMW-04S-20180307	03/07/18	PME9	**640**	**640**	**--**	**4.9**	<0.027	<0.10	**0.026 J**	**10,000**	**2,400**	**0.082**	**0.25**	**3.6**	**1,400**	**130**	**1,500**
CTMW-04D	CTMW-04D-20170405	04/05/17	Baseline	**120**	**120**	--	**5.7**	**0.020 J**	<0.10	<0.025	**12,000**	**2,500**	**0.029 J**	**0.089 J**	<0.00025	**1,600**	**26**	**1,700**
	CTMW-04D-20170504	05/04/17	PME1	**140**	**140**	<20	**2.9**	<0.040	<0.10	**0.041 J**	**12,000**	**2,400**	**0.037 J**	**0.11 J**	<0.00025	**1,400**	**33**	**1,700**
	CTMW-04D-20170517	05/17/17	PME2	**140**	**140**	<20	**3.4**	<0.50	R	R	**12,000**	**2,400**	**0.044 J**	**0.14 J**	<0.00025	**1,200**	**32**	**1,500**
	CTMW-04D-20170517-FD	05/17/17	PME2	**140**	**140**	<20	**3.6**	<0.50	R	R	**12,000**	**2,400**	**0.058 J-**	**0.18 J-**	<0.00025	**1,200**	**33**	**1,500**
	CTMW-04D-20170602	06/02/17	PME3	**140**	**140**	<50	**3.0**	<0.14	<0.10	<0.025	**12,000**	**2,500**	**0.055**	**0.17**	<0.00025	**1,500**	**31**	**1,600**
	CTMW-04D-20170621	06/21/17	PME4	**140**	**140**	<50	**2.6**	<0.054	<0.10	<0.025	**11,000**	**2,500**	**0.044 J**	**0.14 J**	<0.00025	**1,400**	**33**	**1,700**
	CTMW-04D-20170718	07/18/17	PME5	**140**	**140**	<50	**2.4**	<0.027 UJ	**R**	**R**	**12,000**	**2,400**	**0.052 J-**	**0.16 J-**	<0.00025	**1,900**	**34**	**2,200**
	CTMW-04D-20170823	08/23/17	PME6	**130**	**130**	<20	**2.8**	<0.027	<0.10	**0.032 J**	**12,000**	**2,400**	**0.051**	**0.16**	**0.014**	**1,400**	**36**	**1,600**
	CTMW-04D-20170823-FD	08/23/17	PME6	**120**	**120**	<20	**2.6**	<0.027	<0.17	<0.025	**12,000**	**2,400**	**0.061**	**0.19**	**0.015**	**1,400**	**36**	**1,600**
	CTMW-04D-20170920	09/20/17	PME7	**130**	**130**	<50	**3.3**	<0.027	<0.10	<0.025	**11,000**	**2,100**	**0.12**	**0.36**	**0.032**	**1,300**	**36**	**1,600**
	CTMW-04D-20171003	10/03/17	PME8	**160**	**160**	<20	**3.7**	<0.027	<0.50	<0.025	**11,000**	**2,100**	**0.056**	**0.17**	**0.029**	**1,200**	**38**	**1,500**
	CTMW-04D-20180307	03/07/18	PME9	**180**	**180**	**--**	**2.8**	<0.027	<0.10	<0.025	**10,000**	**2,000**	**0.042 J**	**0.13 J**	**0.13**	**1,200**	**27**	**1,400**
CTMW-05S	CTMW-05S-20170621	06/21/17	PME4	**760**	**760**	<50	**8.6**	<0.081	<0.10	**0.033 J**	**9,300**	**2,300**	**0.099**	**0.30**	<0.00025	**1,300**	**60**	**1,400**
	CTMW-05S-20170717	07/17/17	PME5	**1,100**	**1,100**	<50	**7.1**	**0.028 J**	<0.10	**0.027 J**	**9,600**	**2,300**	**0.13**	**0.40**	<0.00025	**1,600**	**24**	**1,400**
	CTMW-05S-20170822	08/22/17	PME6	**820**	**820**	<20	**11**	<0.027	<0.10	**0.19**	**9,300**	**2,400**	**0.039 J**	**0.12 J**	**0.0037**	**1,600**	**32**	**1,400**
	CTMW-05S-20170919	09/19/17	PME7	**750**	**750**	<20	**7.1**	<0.027	<0.10	**0.037 J**	**9,600**	**2,300**	**0.82**	**2.5**	<0.00025	**1,700**	**14**	**1,300**
	CTMW-05S-20171004	10/04/17	PME8	**800**	**800**	<20	**3.5**	<0.027	<0.10	<0.025	**10,000**	**2,200**	**0.31**	**0.94**	**0.11**	**1,400**	**28**	**1,400**

Table 3 - Summary of Groundwater Monitoring Data

In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	General Chemistry (mg/L)											Dissolved Methane (mg/L)	Anions by USEPA Method 300.0 (mg/L)		
				Alkalinity as $CaCO_3$	Bicarbonate Alkalinity as $CaCO_3$	Chemical Oxygen Demand	Total Organic Carbon	Total Sulfide	Total Kjeldahl Nitrogen	Total Phosphorus	Total Dissolved Solids	Hardness as $CaCO_3$	Orthophosphate as P	Orthophosphorus as PO_4		Chloride	Nitrate as N	Sulfate
CTMW-05D	CTMW-05D-20170621	06/21/17	PME4	**160**	**160**	<50	**3.5**	<0.054	<0.10	<0.025	**9,900**	**1,900**	**0.078**	**0.24**	<0.00025	**1,000**	**73**	**1,400**
	CTMW-05D-20170621-FD	06/21/17	PME4	**160**	**160**	<50	**3.1**	<0.054	<0.10	<0.025	**9,900**	**1,900**	**0.054**	**0.17**	<0.00025	**1,100**	**73**	**1,500**
	CTMW-05D-20170718	07/18/17	PME5	**160**	**160**	**R**	**2.3**	<0.027 UJ	**R**	**R**	**9,700**	**1,900**	**0.053 J-**	**0.16 J-**	<0.00025	**1,100**	**64 J+**	**1,500**
	CTMW-05D-20170822	08/22/17	PME6	**160**	**160**	<20	**2.6**	<0.027	<0.17	<0.025	**10,000**	**1,800**	**0.024 J**	**0.073 J**	<0.00025	**1,100**	**52**	**1,500**
	CTMW-05D-20170919	09/19/17	PME7	**140**	**140**	<20	**2.3**	<0.027	<0.10	<0.025	**11,000**	**2,000**	**0.42**	**1.3**	<0.00025	**1,100**	**52**	**1,500**
	CTMW-05D-20171004	10/04/17	PME8	**180**	**180**	**R**	**2.3**	<0.027 UJ	**R**	<0.025 UJ	**10,000**	**1,800**	**0.077 J-**	**0.24 J-**	**0.00044 J**	**1,100**	**48**	**1,500**
CTMW-06S	CTMW-06S-20170621	06/21/17	PME4	**2,400**	**2,400**	3,300	**730**	0.58	0.48	**0.40**	7,300	**2,600**	**0.084**	**0.26**	<0.00025	**1,700**	<1.1	**950**
	CTMW-06S-20170717	07/17/17	PME5	**3,800**	**3,800**	9,800	**3,100**	7.3	15	**0.93**	**11,000**	**3,700**	**0.67**	**2.0**	**0.0084**	**1,600**	**1.2 J**	**230**
	CTMW-06S-20170822	08/22/17	PME6	**4,400**	**4,400**	**6,700**	**3,200**	<0.027	30	**2.0**	**11,000**	**3,600**	**0.30**	**0.93**	**0.049**	**1,700**	<1.1	**14**
	CTMW-06S-20170919	09/19/17	PME7	**2,300**	**2,300**	**7,100**	**2,700**	<0.027	44	**1.6**	**12,000**	**3,700**	**2.7**	**8.2**	**0.078 J-**	**1,700**	<1.1	<5.0
	CTMW-06S-20171004	10/04/17	PME8	**2,600**	**2,600**	**10,000**	**3,000 J-**	**0.20**	54	**2.7**	**12,000**	**3,700**	**2.2**	**6.7**	**0.27 J-**	**1,600**	<2.8	<13
	CTMW-06S-20180306	03/06/18	PME9	**1,800**	**1,800**	**--**	**17**	**0.15**	22	**0.86**	**3,500**	**910**	**0.23**	**0.69**	**6.0 J-**	**1,200**	<1.1	**6.4 J**
CTMW-06D	CTMW-06D-20170622	06/22/17	PME4	**240**	**240**	<50	**3.5**	<0.11	<0.10	<0.025	**12,000**	**2,600**	**0.054**	**0.17**	<0.00025	**1,300**	**97**	**1,500**
	CTMW-06D-20170717	07/17/17	PME5	**210**	**210**	<50	**4.9**	**0.030 J**	<0.10	<0.025	**11,000**	**2,600**	**0.064**	**0.20**	<0.00025	**1,400**	**84**	**1,500**
	CTMW-06D-20170717-FD	07/17/17	PME5	**210**	**210**	<50	**5.8**	**0.029 J**	<0.10	<0.025	**12,000**	**2,700**	**0.057**	**0.18**	<0.00025	**1,500**	**84**	**1,500**
	CMTW-06D-20170822	08/22/17	PME6	**340**	**340**	<50	**25**	<0.027	<0.10	0.13	**12,000**	**2,700**	**0.084**	**0.26**	**0.00071 J**	**1,400**	**52**	**1,400**
	CMTW-06D-20170919	09/19/17	PME7	**390**	**390**	<20	**85**	R	<0.10	**0.034 J**	**11,000**	**2,600**	**0.58**	**1.8 J**	**0.00034 J**	**1,700**	**48**	**1,500**
	CTMW-06D-20170919-FD	09/19/17	PME7	**400**	**400**	<20	**82**	**R**	<0.10	**0.040 J**	**11,000**	**2,600**	**0.44**	**1.3 J**	**0.00033 J**	**1,600**	**48**	**1,500**
	CTMW-06D-20171004	10/04/17	PME8	**590**	**590**	<50	**120**	<0.027	<0.10	<0.025	**11,000**	**2,800**	**0.15**	**0.46**	**0.0029**	**1,700**	**41**	**1,400**
	CTMW-06D-20171004-FD	10/04/17	PME8	**590**	**590**	<20	**110**	<0.027	<0.10	**0.029 J**	**11,000**	**2,700**	**0.12**	**0.36**	**0.0024**	**1,700**	**39**	**1,400**
	CTMW-06D-20180307	03/07/18	PME9	**1,300**	**1,300**	**--**	**52**	<0.027	<0.10	**0.032 J**	**10,000**	**2,500**	**0.11**	**0.33**	**1.3**	**1,800**	**18**	**1,100**
CTMW-07S	CTMW-07S-20171009	10/09/17	PME8	**Well dry**														
	CMTW-07S-20180306	03/06/18	PME9	**210**	**210**	--	**1.9**	R	R	**R**	**9,000**	**1,600**	**0.049 J**	**0.15 J-**	1.0	**990**	**66**	**1,400**
CTMW-07D	CTMW-07D-20171009	10/09/17	PME8	**100**	**100**	**55**	**1.7**	<0.027	**0.21**	**0.54**	**770**	**380**	**0.16**	**0.48**	**0.00050 J**	**140**	**2.0**	**230**
	CTMW-07D-20180306	03/06/18	PME9	**170**	<4.0	**--**	**2.3**	<0.027	**0.93**	**0.045 J**	**570**	**36**	**0.031 J**	**0.096 J**	0.073	**85**	**0.099 J**	**140**

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Detected VOCs by USEPA Method 8260B (µg/L)																				Volatile Fatty Acids (mg/L)					
				Acetone	Benzene	Bromodichloro-methane	Bromoform	2-Butanone (MEK)	Carbon Tetrachloride	Chlorobenzene	Chloroform	1,1-Dichloroethene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexachloro-butadiene	2-Hexanone	Methylene Chloride	Methyl-t-Butyl Ether	p-Isopropyltoluene	Tetrachloro-ethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloro-ethene	Acetic Acid	Formic-acid	Lactic Acid	n-Butyric Acid	Propionic Acid	Pyruvic Acid
CTMW-01S	CTMW-01S-20170404	04/04/17	Baseline	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**850**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<0.29	**3.0**	<0.31	<0.26	<0.35	<7.4
	CTMW-01S-20170503	05/03/17	PME1	**2,800**	<2.5	<2.5	<4.0	**360**	<2.5	<2.5	**420**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**820**	**400**	**660**	**990**	**200**	<7.4
	CTMW-01S-20170516	05/16/17	PME2	<1,000	<25	<25	<40	**1,200**	<25	<25	**340**	<25	<25	<25	<25	<25	<250	<88	<25	<25	<25	<40	<40	<25	**540**	**180**	<31	**1,600**	**300**	<37
	CTMW-01S-20170531	05/31/17	PME3	<250	<6.3	<6.3	<10	**1,300**	<6.3	<6.3	**230**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	**45 J,B**	<6.3	<6.3	<6.3	<10	<10	<6.3	**880**	<13	<16	<13	**380**	<19
	CTMW-01S-20170619	06/19/17	PME4	**300 J**	<6.3	<6.3	<10	**3,500**	<6.3	<6.3	**140**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	**27 J**	<6.3	<6.3	<6.3	<10	<10	<6.3	**3,000**	<26	<31	**4,100**	**2,000**	<37
	CTMW-01S-20170720	07/20/17	PME5	<400	<10	<10	<16	**2,400**	<10	<10	**130**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	<15	<13	<16	<13	<18	<19
	CTMW-01S-20170824	08/24/17	PME6	**630 J**	<13	<13	<20	**6,400**	<13	<13	**86**	<13	<13	<13	<13	<13	<130	**78 J**	<13	<13	<13	<20	<20	<13	**3,900**	<5.2	<6.2	**2,400**	**1,800**	<7.4
	CTMW-01S-20170920	09/20/17	PME7	**750 J**	<13	<13	<20	**7,200**	<13	<13	**19 J**	<13	<13	<13	<13	<13	<130	<44	<13	<13	<13	<20	<20	<13	**4,400**	<2.6	<3.1	**2,600**	**2,000**	<3.7
	CTMW-01S-20171003	10/03/17	PME8	R	R	R	R	**11,000**	R	R	R	**35 J**	R	R	R	R	**R**	**140 J**	R	R	R	R	R	R	**4,200**	<5.2	<6.2	**2,500**	**1,900**	<7.4
	CTMW-01S-20180305	03/05/18	PME9	**600**	**0.44 J**	<0.25	<0.40	**6,600**	<0.25	<0.25	**3.2**	<0.25	**0.45 J**	**0.55**	**0.58**	<0.25	**4.5 J**	**1.4 J**	**0.36 J**	**0.62**	<0.25	**1.0**	**0.49 J**	<0.25	**560**	**3.6 J**	<3.1	**8.5 J**	**2,000**	<3.7
CTMW-01D	CTMW-01D-20170403	04/03/17	Baseline	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,800**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<5.0	<5.0	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-01D-20170503	05/03/17	PME1	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,700**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-01D-20170516	05/16/17	PME2	<400	<10	<10	<16	<100	<10	<10	**1,700**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<10	<10	<15	<13	<16	<13	<18	<19
	CTMW-01D-20170531	05/31/17	PME3	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,800**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	<15	<13	<16	<13	<18	<19
	CTMW-01D-20170619	06/19/17	PME4	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,600**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	<15 F1	<13	<16	<13	<18	<19
	CTMW-01D-20170720	07/20/17	PME5	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,700**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	**50**	<5.2	**22**	<5.2	<7.0	<7.4 UJ
	CTMW-01D-20170720-FD	07/20/17	PME5	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,700**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	**38**	<5.2	**18 J**	<5.2	<7.0	<7.4
	CTMW-01D-20170824	08/24/17	PME6	**320 J**	<5.0	<5.0	<8.0	**150**	<5.0	<5.0	**1,500**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<5.0	<5.0	**170**	<5.2	**80**	**220**	**7.0 J**	<7.4
	CTMW-01D-20170920	09/20/17	PME7	**440**	<5.0	<5.0	<8.0	**360**	<5.0	<5.0	**1,500**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<5.0	<5.0	**160**	<2.6	**54**	**350**	<3.5	<3.7 UJ
	CTMW-01D-20171003	10/03/17	PME8	**560 J**	<10	<10	<16	**440**	<10	<10	**1,300**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<10	<10	**160**	<5.2	**36**	**350**	**33 J+**	<7.4 UJ
	CTMW-01D-20180305	03/05/18	PME9	**640**	<2.5	<2.5	<4.0	**730**	<2.5	<2.5	**750**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**13 J**	<2.5	<2.5	<2.5	<4.0	<2.5	<2.5	**260**	<2.6	<3.1	**110**	**71**	<3.7
	CTMW-01D-20180305-FD	03/05/18	PME9	**650**	<2.5	<2.5	<4.0	**650**	<2.5	<2.5	**720**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**12 J**	<2.5	<2.5	<2.5	<4.0	<2.5	<2.5	**260**	<2.6	<3.1	**120**	**66**	<3.7
CTMW-02S	CTMW-02S-20170405	04/05/17	Baseline	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**950**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<6.3	<6.3	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-02S-20170504	05/04/17	PME1	**420**	**0.37 J**	<2.5	<0.40	**38**	<0.25	<0.25	**620**	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	<0.88	**0.87**	<2.5	**0.28 J**	**0.57 J**	<0.40	**1.2**	**11**	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-02S-20170516	05/16/17	PME2	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**420**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<15	<13	<16	<13	<18	<19
	CTMW-02S-20170601	06/01/17	PME3	**47 J**	<0.63	<0.63	<1.0	<6.3	<0.63	<0.63	**520**	<0.63	<0.63	<0.63	<0.63	<0.63	<6.3	**4.3 J,B**	<0.63	<0.63	<0.63	<1.0	<1.0	<0.63	<15	<13	<16	<13	<18	<19
	CTMW-02S-20170620	06/20/17	PME4	**260**	**1.0 J**	<0.63	<1.0	**2,000**	<0.63	<0.63	**210**	<0.63	<0.63	<0.63	<0.63	<0.63	<6.3	**24**	<0.63	<0.63	<0.63	**3.0**	<1.0	<0.63	**1,500**	<13	<16	**490**	**490**	<19
	CTMW-02S-20170719	07/19/17	PME5	<250	<6.3	<6.3	<10	**1,600**	<6.3	<6.3	**180**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	**41 J**	<6.3	<6.3	<6.3	<10	<10	<6.3	**4,000**	<5.2	<6.2	**430**	**660**	<74
	Not Analyzed	08/24/17	PME6	**Well Dry; Unable to sample**																									
	CTMW-02S-20170920	09/20/17	PME7	<250	<6.3	<6.3	<10	**1,500**	<6.3	<6.3	**78**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	**25 J**	<6.3	<6.3	<6.3	<10	<10	<6.3	**3,300**	<2.6	**20**	**480**	**340**	<3.7
	CTMW-02S-20171003	10/03/17	PME8	<200	<5.0	<5.0	<8.0	**1,200**	<5.0	<5.0	**13**	**R**	<5.0	<5.0	<5.0	<5.0	R	**27 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	**3,200**	<5.2	<6.2	**560**	**280**	<7.4
	CTMW-02S-20180306	03/06/18	PME9	<10	**0.66**	<0.25	<0.40	**6.9**	<0.25	<0.25	**1.9**	<0.25	**0.59**	**0.28 J**	**0.36 J**	<0.25	<2.5	<0.88	**0.30 J**	**0.60**	<0.25	**3.8**	**0.43 J**	<0.25	**4.6 J**	**3.6 J**	<3.1	<2.6	<3.5	<3.7
CTMW-02D	CTMW-02D-20170404	04/04/17	Baseline	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,500**	<6.3	**9.4 J**	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<0.29	<0.26 UJ	<0.31 UJ	<0.26 UJ	<0.35	<7.4
	CTMW-02D-20170404-FD	04/04/17	Baseline	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,500**	<6.3	**9.4 J**	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-02D-20170503	05/03/17	PME1	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,500**	<6.3	**13**	<6.3	**6.5 J**	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-02D-20170503-FD	05/03/17	PME1	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,500**	<6.3	**14**	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<0.29 UJ	<0.26	<0.31 UJ	<0.26 UJ	<0.35 UJ	<7.4
	CTMW-02D-20170517	05/17/17	PME2	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	**17**	<5.0	**6.7 J**	<5.0	<50	**29 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-02D-20170601	06/01/17	PME3	<400	<10	<10	<16	<100	<10	<10	**1,900**	<10	**19 J**	<10	<10	<10	<100	**38 J**	<10	<10	<10	<16	<16	<10	<15	<13	<16	<13	<18	<19
	CTMW-02D-20170601-FD	06/01/17	PME3	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,800**	<5.0	**15**	<5.0	**7.2 J**	<5.0	<50	**22 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-02D-20170619	06/19/17	PME4	<400	<10	<10	<16	<100	<10	<10	**1,500**	<10	**16 J**	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	**49 J**	<13	<16	**40 J**	**27 J**	<19
	CTMW-02D-20170619-FD	06/19/17	PME4	<200	<5.0	<5.0	<8.0	**82 J**	<5.0	<5.0	**1,600**	<5.0	**16**	<5.0	**7.9 J**	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	50	<13	<16	**42 J**	**31 J**	<19
	CTMW-02D-20170719	07/19/17	PME5	<250	<6.3	<6.3	<10	**290**	<6.3	<6.3	**1,600**	<6.3	**12 J**	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	**220**	<1.3	<1.6	<1.3	<1.8	<19
	CTMW-02D-20170824	08/24/17	PME6	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,400**	<5.0	18	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	**7.0 J**	<5.2	<6.2	<5.2	<7.0	<7.4 UJ
	CTMW-02D-20170920	09/20/17	PME7	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**1,500**	<2.5	15	<2.5	6.4	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
	CTMW-02D-20171003	10/03/17	PME8	<400	<10	<10	<16	<100	<10	<10	**1,500**	<10	22	<10	**10 J**	<10	<100	<35	<10	<10	<10	<16	<16	<10	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
	CTMW-02D-20180305	03/05/18	PME 9	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**990**	<5.0	**7.5 J**	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<2.9	**3.6 J**	<3.1	<2.6	<3.5	<3.7

Table 3 - Summary of Groundwater Monitoring Data
In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Detected VOCs by USEPA Method 8260B (µg/L)																				Volatile Fatty Acids (mg/L)					
				Acetone	Benzene	Bromodichloro-methane	Bromoform	2-Butanone (MEK)	Carbon Tetrachloride	Chlorobenzene	Chloroform	1,1-Dichloroethene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexachloro-butadiene	2-Hexanone	Methylene Chloride	Methyl-t-Butyl Ether	p-Isopropyltoluene	Tetrachloro-ethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloro-ethene	Acetic Acid	Formic-acid	Lactic Acid	n-Butyric Acid	Propionic Acid	Pyruvic Acid
CTMW-03S	CTMW-03S-20170405	04/05/17	Baseline	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**930**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**21 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5	<1.3 UJ	<1.6 UJ	<1.3	<1.8	<1.9 UJ
	CTMW-03S-20170505	05/05/17	PME1	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,100**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**18 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-03S-20170517	05/17/17	PME2	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**970**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**17 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<15	<13	<16	<13	<18	<19
	CTMW-03S-20170601	06/01/17	PME3	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,200**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**18 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-03S-20170620	06/20/17	PME4	250	<2.5	<2.5	<4.0	690	<2.5	<2.5	**920**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**16 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**120**	<13	<16	140	**72**	<19
	CTMW-03S-20170718	07/18/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5	<1.3	<1.6	<1.3	<1.8	<19
	CTMW-03S-20170823	08/23/17	PME6	<100	<2.5	<2.5	<4.0	**280**	<2.5	<2.5	**900**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**19 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**66**	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-03S-20170921	09/21/17	PME7	<50	<1.3	<1.3	<2.0	<13	<1.3	<1.3	**510**	<1.3	<1.3	<1.3	<1.3	<1.3	<13	<4.4	<1.3	<1.3	<1.3	<2.0	<2.0	<1.3	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-03S-20171003	10/03/17	PME8	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
CTMW-03D	CTMW-03D-20170406	04/06/17	Baseline	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**880**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-03D-20170505	05/05/17	PME1	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**19 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-03D-20170517	05/17/17	PME2	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,100**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**26 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16 UJ	<13	<18	<19
	CTMW-03D-20170601	06/01/17	PME3	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**1,400**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**11 J**	<2.5	<2.5	<2.5	<4.0	<4.0	**2.5 J**	<15	<13	<16	<13	<18	<19
	CTMW-03D-20170620	06/20/17	PME4	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,200**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**29 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-03D-20170720	07/20/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5	<1.3	<1.6	<1.3	<1.8	<19
	CTMW-03D-20170823	08/23/17	PME6	<50	<1.3	<1.3	<2.0	<13	<1.3	<1.3	**1,100**	<1.3	<1.3	<1.3	<1.3	<1.3	<13	<4.4	<1.3	<1.3	<1.3	<2.0	<2.0	3.0	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-03D-20170921	09/21/17	PME7	<10	<0.25	<0.25	<0.40	<2.5	0.58	<0.25	**1,100**	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	<0.88	1.2	<0.25	**0.37 J**	<0.40	<0.40	2.9	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-03D-20171003	10/03/17	PME8	<400	<10	<10	<16	<100	<10	<10	**1,000**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
CTMW-04S	CTMW-04S-20170405	04/05/17	Baseline	<10	<0.25	<0.25	**0.82 J**	<2.5	**0.41 J**	<0.25	**720**	<0.25	<0.25	<0.25	<0.25	**0.58**	<2.5	<0.88	**0.86**	<0.25	**0.26 J**	<0.40	<0.40	**2.0**	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-04S-20170504	05/04/17	PME1	**220**	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**810**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**55**	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-04S-20170517	05/17/17	PME2	**1,800**	<2.5	<2.5	<4.0	**1,000**	<2.5	<2.5	**640**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**70**	<13	<16	54	<18	<19
	CTMW-04S-20170602	06/02/17	PME3	**860**	<2.5	<2.5	<4.0	**370**	<2.5	<2.5	**610**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**9.7 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<29	<26	<31	<26	<35	<37
	CTMW-04S-20170620	06/20/17	PME4	**1,900**	**0.46 J**	<0.25	<0.40	**670**	<0.25	<0.25	**590**	<0.25	<0.25	<0.25	<0.25	**0.36 J**	**3.3 J**	**2.6**	0.81	<0.25	<0.25	<0.40	<0.40	0.92	**85**	<13	<16	**30 J**	83	<19
	CTMW-04S-20170718	07/18/17	PME5	**920**	<2.5	<2.5	<4.0	**650**	<2.5	<2.5	**620**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**15 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**570**	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-04S-20170823	08/23/17	PME6	**1,200**	<1.3	<1.3	<2.0	**1,300**	<1.3	<1.3	**520**	<1.3	<1.3	<1.3	<1.3	<1.3	<13	24	<1.3	<1.3	<1.3	<2.0	<2.0	<1.3	**2,800**	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-04S-20170921	09/21/17	PME7	**770**	<0.25	<0.25	<0.40	**1,900**	<0.25	<0.25	**67**	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	**1.7 J**	**0.49 J**	<0.25	<0.25	<0.40	<0.40	<0.25	**1,800**	<2.6	<3.1	<2.6	<3.5	<3.7
	CTMW-04S-20171003	10/03/17	PME8	**89**	<0.25	<0.25	<0.40	**140**	<0.25	<0.25	**48**	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	**4.3**	0.89	<0.25	<0.25	<0.40	<0.40	<0.25	**300**	<13	<16	<13	<18	<19
	CTMW-04S-20180307	03/07/18	PME9	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**580**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
CTMW-04D	CTMW-04D-20170405	04/05/17	Baseline	<50	<1.3	<1.3	<2.0	<13	<1.3	<1.3	**1,600**	<1.3	**5.1**	<1.3	**3.7**	<1.3	<13	<4.4	<1.3	<1.3	<1.3	<2.0	<2.0	<1.3	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-04D-20170504	05/04/17	PME1	<10	<0.25	<0.25	**0.81 J**	<2.5	**0.46 J**	<0.25	**1,400**	<0.25	**2.8**	**0.34 J**	**1.9**	<0.25	<2.5	<0.88	**0.85**	<0.25	**0.36 J**	<0.40	<0.40	**1.1**	<0.29	<0.26	<0.31	<0.26	<0.35	<7.4
	CTMW-04D-20170517	05/17/17	PME2	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,600**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-04D-20170517-FD	05/17/17	PME2	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,600**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-04D-20170602	06/02/17	PME3	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,600**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**24 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-04D-20170621	06/21/17	PME4	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,600**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	**34 J**	<6.3	<6.3	<6.3	<10	<10	<6.3	<15	<13	<16	<13	<18	<19
	CTMW-04D-20170718	07/18/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5	<1.3	<1.6	<1.3	<1.8	<19
	CTMW-04D-20170823	08/23/17	PME6	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**24 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-04D-20170823-FD	08/23/17	PME6	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**27 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-04D-20170920	09/20/17	PME7	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,400**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-04D-20171003	10/03/17	PME8	<400	<10	<10	<16	<100	<10	<10	**1,300**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
	CTMW-04D-20180307	03/07/18	PME9	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**960**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
CTMW-05S	CTMW-05S-20170621	06/21/17	PME4	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**960**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**14 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<15	<13	<16	<13	<18	<19
	CTMW-05S-20170717	07/17/17	PME5	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**1,100**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-05S-20170822	08/22/17	PME6	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**750**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	**9.5 J**	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-05S-20170919	09/19/17	PME7	<50	<1.3	<1.3	<2.0	<13	<1.3	<1.3	**410**	<1.3	<1.3	<1.3	<1.3	<1.3	<13	<4.4	<1.3	<1.3	<1.3	<2.0	<2.0	<1.3	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-05S-20171004	10/04/17	PME8	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**630**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<2.9	<2.6	<3.1	<2.6	<3.5	<19

Table 3 - Summary of Groundwater Monitoring Data

In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Well Location	Sample ID	Sample Date	Week	Detected VOCs by USEPA Method 8260B (µg/L)																				Volatile Fatty Acids (mg/L)					
				Acetone	Benzene	Bromodichloro-methane	Bromoform	2-Butanone (MEK)	Carbon Tetrachloride	Chlorobenzene	Chloroform	1,1-Dichloroethene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexachloro-butadiene	2-Hexanone	Methylene Chloride	Methyl-t-Butyl Ether	p-Isopropyltoluene	Tetrachloro-ethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	Trichloro-ethene	Acetic Acid	Formic-acid	Lactic Acid	n-Butyric Acid	Propionic Acid	Pyruvic Acid
CTMW-05D	CTMW-05D-20170621	06/21/17	PME4	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**30 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-05D-20170621-FD	06/21/17	PME4	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**35 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<15	<13	<16	<13	<18	<19
	CTMW-05D-20170718	07/18/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,300**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<1.5 UJ	<1.3 UJ	<1.6 UJ	<1.3	<1.8 UJ	<19 UJ
	CTMW-05D-20170822	08/22/17	PME6	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,200**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<15	<13	<16	<13	<18	<19
	CTMW-05D-20170919	09/19/17	PME7	<100	<2.5	<2.5	<4.0	<25	<2.5	<2.5	**630**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<8.8	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	<1.5	<1.3	<1.6	<1.3	<1.8	<1.9
	CTMW-05D-20171004	10/04/17	PME8	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	**1,000**	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<2.9	<2.6	<3.1 UJ	<2.6	<3.5 UJ	<19 UJ
CTMW-06S	CTMW-06S-20170621	06/21/17	PME4	**1,700**	<2.5	<2.5	<4.0	730	<2.5	<2.5	**670**	<2.5	<2.5	<2.5	<2.5	<2.5	<25	**18 J**	<2.5	<2.5	<2.5	<4.0	<4.0	<2.5	430	<13	<16	240	100	<19
	CTMW-06S-20170717	07/17/17	PME5	**1,400**	<10	<10	<16	2,800	<10	<10	**610**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	**2,800**	<13	<16	710	550	<19
	CTMW-06S-20170822	08/22/17	PME6	**1,400**	<5.0	<5.0	<8.0	**3,200**	<5.0	<5.0	**320**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	**30 J**	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	**3,200**	<13	<16	690	550	<19
	CTMW-06S-20170919	09/19/17	PME7	**780 J-**	R	R	R	**3,700 J-**	R	R	**170 J-**	R	R	R	R	R	**R**	**41 J-**	R	R	R	R	R	R	3,600	<5.2	<6.2	970	440	<7.4
	CTMW-06S-20171004	10/04/17	PME8	**620 J-**	**2.6 J**	R	R	**4,000 J-**	R	R	**120 J-**	R	R	R	R	R	**R**	**13 J**	R	R	R	R	R	R	**3,700**	<13	<16	1,200	750	<19
	CTMW-06S-20180306	03/06/18	PME9	<10	<0.25	<0.25	<0.40	<2.5	<0.25	<0.25	**16**	<0.25	**0.43 J**	0.74	<0.25	0.52	<2.5	**1.7 J**	**0.30 J**	<0.25	<0.25	**0.64 J**	<0.40	<0.25	**3.1 J**	**3.5 J**	<3.1	<2.6	<3.5	<3.7
CTMW-06D	CTMW-06D-20170622	06/22/17	PME4	<400	<10	<10	<16	<100	<10	<10	**1,500**	<10	<10	<10	<10	<10	<100	<35	<10	<10	<10	<16	<16	<10	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-06D-20170717	07/17/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CTMW-06D-20170717-FD	07/17/17	PME5	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**1,700**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<5.8	<5.2	<6.2	<5.2	<7.0	<7.4
	CMTW-06D-20170822	08/22/17	PME6	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	1,400	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	<29	<26	<31	<26	<35	<37
	CMTW-06D-20170919	09/19/17	PME7	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	1,200	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	96	<1.3	<1.6	26	<1.8	<1.9
	CTMW-06D-20170919-FD	09/19/17	PME7	250	<0.25	**0.27 J**	<0.40	**150**	0.54	<0.25	1,000	<0.25	3.6	**0.32 J**	1.0	**0.45 J**	<2.5	**1.1 J**	0.68	<0.25	**0.44 J**	**0.72 J**	<0.40	1.0	**97**	<1.3	<1.6	26	<1.8	<1.9
	CTMW-06D-20171004	10/04/17	PME8	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	1,200	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	**140**	<2.6	<3.1	16	<3.5 UJ	<19
	CTMW-06D-20171004-FD	10/04/17	PME8	<250	<6.3	<6.3	<10	<63	<6.3	<6.3	1,200	<6.3	<6.3	<6.3	<6.3	<6.3	<63	<22	<6.3	<6.3	<6.3	<10	<10	<6.3	**130**	<2.6	11	<2.6	**26 J**	<19
	CTMW-06D-20180307	03/07/18	PME9	**69 J**	<1.3	<1.3	<2.0	**140**	<1.3	<1.3	**440 J**	<1.3	<1.3	<1.3	<1.3	<1.3	<13	11	<1.3	<1.3	<1.3	<2.0	<2.0	<1.3	**32 J**	<13	<16	<13	<18	<19
CTMW-07S	CTMW-07S-20171009	10/09/17	PME8	**Well dry**																										
	CMTW-07S-20180306	03/06/18	PME9	<200	<5.0	<5.0	<8.0	<50	<5.0	<5.0	**830**	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<18	<5.0	<5.0	<5.0	<8.0	<8.0	<5.0	<2.9	**3.6 J**	<3.1	<2.6	<3.5	<3.7 UJ
CTMW-07D	CTMW-07D-20171009	10/09/17	PME8	<10	<0.25	<0.25	<0.40	<2.5	<0.25	0.64	**11**	<0.25	0.90	<0.25	<0.25	<0.25	<2.5	<0.88	<0.25	<0.25	<0.25	<0.40	<0.40	<0.25	<2.9	<2.6	<3.1	<2.6	<3.5	<3.7
	CTMW-07D-20180306	03/06/18	PME9	<10	<0.25	<0.25	<0.40	<2.5	<0.25	<0.25	**1.5**	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	<0.88	<0.25	<0.25	<0.25	<0.40	<0.40	<0.25	<2.9	**3.8 J**	<3.1	<2.6	<3.5	<3.7

Notes:

<	Denotes concentration is less than the laboratory method detection limit indicated
°C	Degress Celsius
µg/L	Micrograms per liter
DO	Dissolved Oxygen
FD	Field duplicate
ID	Identification
mg/L	Milligrams per liter
mS/cm	Millisiemens per centimeter
mV	Millivolt
NTU	Nephelometric turbidity units
ORP	Oxidation reduction potential
PME	
USEPA	U.S. Environmental Protection Agency
--	No sample available
B	Compound was found in the blank and the sample
F1	MS and / or MSD Recovery is outside acceptance limits
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J-	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.
L	Denotes a negative instrument reading had an absolute value greater than the reporting limit.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 4 - Groundwater Monitoring Parameters

In-Situ Chromium Treatability Study (Biological Reduction Study Area)

Monitoring Parameters		Monitoring Wells											
Parameter	**Analytical Method**	**CTMW-01S**	**CTMW-01D**	**CTMW-02S**	**CTMW-02D**	**CTMW-03S**	**CTMW-03D**	**CTMW-04S**	**CTMW-04D**	**CTMW-06S**	**CTMW-06D**	**CTMW-07S**	**CTMW-07D**
Field Parameters													
EC	Field Meter	X	X	X	X			X	X	X	X	X	X
pH	Field Meter	X	X	X	X			X	X	X	X	X	X
DO	Field Meter	X	X	X	X			X	X	X	X	X	X
ORP	Field Meter	X	X	X	X			X	X	X	X	X	X
Temperature	Field Meter	X	X	X	X			X	X	X	X	X	X
Turbidity	Field Meter	X	X	X	X			X	X	X	X	X	X
Laboratory Analyses													
Hexavalent Chromium	7199	X	X	X	X			X	X	X	X	X	X
Total Chromium	6010B or 6020	X	X	X	X			X	X	X	X	X	X
Alkalinity	SM 2320B	X	X	X	X			X	X	X	X	X	X
TOC	*SM 5310B*	X	X	X	X			X	X	X	X	X	X
Nitrate	300.0	X	X	X	X			X	X	X	X	X	X
Sulfate	300.0	X	X	X	X			X	X	X	X	X	X
Sulfide	SM 4500	X	X	X	X			X	X	X	X	X	X
Total Nitrogen	351.2	X	X	X	X			X	X	X	X	X	X
Total Phosphorus	365.3	X	X	X	X			X	X	X	X	X	X
TDS	SM 2540C	X	X	X	X			X	X	X	X	X	X
Ferrous and Ferric Iron	HACH Method 8008 & 8147	X	X	X	X			X	X	X	X	X	X
Hardness	SM 2340C	X	X	X	X			X	X	X	X	X	X
Manganese	6010B	X	X	X	X			X	X	X	X	X	X
Dissolved Methane	RSK-175	X	X	X	X			X	X	X	X	X	X
Dissolved Metals	6010B or 6020	X	X	X	X			X	X	X	X	X	X
Volatile Fatty Acids	VFA-IC	X	X	X	X			X	X	X	X	X	X
Perchlorate	314.0 LL	X	X	X	X			X	X	X	X	X	X
Chlorate/Chlorite	300.1B	X	X	X	X			X	X	X	X	X	X
Chloride	300.0	X	X	X	X			X	X	X	X	X	X
PLFA	Microbial Insights Bio-Traps®	X	X			X	X						
Perchrlorate Reductase	Microbial Insights Bio-Traps®	X	X			X	X						
Sulfate Reducing Bacteria	Microbial Insights Bio-Traps®	X	X			X	X						

Notes:

BL: Baseline

EC: Electrical conductivity

DO: Dissolved Oxygen

ORP: Oxidation-reduction potential

TOC: Total organic carbon

TDS: Total dissolved solids

Dissolved metals includes the following: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, nickel, selenium, silver, thallium, uranium, vanadium, and zinc