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20 February 2018

Mr. Gregory Suber, Acting Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal & State Materials & Environmental Management Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852-2738

Dear Ms Kock:


**SUBJECT: Sweetwater Uranium Project – Docket Number 40-8584
Source Material License No. SUA-1350 – Annual Corrective Action
Program Review and Groundwater Monitoring Report**

Enclosed is a CD-ROM containing Kennecott Uranium Company's Annual Corrective Action Program Review for 2017.

The report summarizes all monitoring and mitigation efforts in the area of the tailings cell under the ground water corrective action program, as defined in License Condition 11.3 of USNRC Source Materials License SUA-1350, and contains the ground water monitoring data required to be submitted under License Condition 12.3.

If you have any questions, please do not hesitate to contact me at (307) 328-1476.

Sincerely,



Oscar A. Paulson
Facility Supervisor

cc: James Webb, Project Manager – USNRC
Director – NRC DRSS – Region IV (w/o enc.)
James P. O'Connor, P.G., Wyoming Department of Environmental Quality

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20 February 2018

James P. O'Connor
Project Geologist
Wyoming Department of Environmental Quality
Water Quality Division
510 Meadowview Drive
Lander, WY 82520

Dear Mr. O'Connor:

**SUBJECT: Wyoming DEQ Permit to Mine #481 – Title II-005
Annual Corrective Action Program Review and Groundwater Monitoring Report**

Enclosed is a CD-ROM containing Kennecott Uranium Company's Annual Corrective Action Program Review for 2017.

The report summarizes all monitoring and mitigation efforts in the area of the tailings cell under the ground water corrective action program as defined in License Condition 11.3 of USNRC Source Materials License SUA-1350, and contain the ground water monitoring data required to be submitted under License Condition 12.3.

The impoundment liner is maintained within five (5) feet of the fluid surface as required by the Nuclear Regulatory Commission. It is not possible to provide a hard date as to when groundwater remediation will be complete since the existing plume is derived from two (2) sources; the tailings impoundment leak in 1984 and from the bottom of the Catchment Basin. While estimates exist of the quantity of fluids and dissolved solids that leaked from the tailings impoundment, the volume of fluids and dissolved solids that leaked from the bottom of the Catchment Basin during operations is uncertain, making an accurate prediction of the time required to complete remediation difficult. A response to a July 13, 2015 Request for Information (RAI) from the Nuclear Regulatory Commission (NRC) prepared by Telesto Solutions, Inc. concludes that the plume is wholly contained by the pumping performed under the Corrective Action Program (CAP). This is discussed in the Annual Corrective Action Program (CAP) Review.

In the Fall of 2017, a drilling program that included both the completion of wells (nine (9) wells) and the drilling of five (5) boreholes to gather data on the chemical properties of the Battle Spring Aquifer (upper saturated fifty (50) feet) and sands overlying the aquifer was conducted. This work was performed to better characterize the plume (especially to the West of the Mill Building) and better understand background conditions in the water in the Battle Spring Aquifer and in the sands, silts and clays that comprise it and the materials that overlie it. This work is further described in the Corrective Action Program (CAP) Review.

If you have any questions, please do not hesitate to contact me at (307) 328-1476.

Sincerely,



Oscar A. Paulson
Facility Supervisor

cc: Brian Wood, DEQ/LQD (w/o enclosure)
Andrea Koch, Deputy Director, USNRC

KENNECOTT URANIUM COMPANY
ANNUAL CORRECTIVE ACTION PROGRAM REVIEW
January 2017 through December 2017

EXCURSION PUMPBACK SYSTEM

Perched Wells

All perched wells around the tailings impoundment were essentially dry as of the fall of 1989 and have not been pumped since that time. In the course of preparing a response to a Request for Additional Information (RAI) dated July 13, 2015 related to Kennecott Uranium Company's request to renew Source Material License (SML) SUA-1350 an investigation of the perched wells around the tailings impoundment was conducted. One well, TMW-55 was discovered to have sufficient water to allow collection of a sample on August 4, 2015. The table below shows water quality data for five (5) parameters for that well on that date:

Water Quality Data, TMW-55, August 4, 2015

Analytes	Units	Result
Sulfate	mg/L	1,760
Iron	mg/L	ND (reporting limit = 0.05
Manganese	mg/L	ND (reporting limit = 0.01)
Uranium, activity	pCi/L	1,150
Radium-226/228	pCi/L	3.5

The above data table was submitted as part of the response dated October 12, 2015 to the July 13, 2015 Requests for Additional Information (RAIs).

Complete water quality data for this well is reported in the section containing the well data at the end of this report.

In the 2015 Corrective Action Program (CAP) Review all of the perched (shallow) wells in the vicinity of the tailings impoundment were listed as "DRY" on the table entitled Monitor Well Coordinates; however, some that were measured as part of site water level collection activities had water in them as was shown in the Groundwater Elevations table provided in Appendix 1 of the CAP Review. The table entitled "Monitor Well Coordinates" was a legacy table that had not been updated to reflect current conditions. This discrepancy was investigated in the field as part of the routine Nuclear Regulatory Commission (NRC) inspection conducted on September 20, 2016. The inspection report concluded:

However, the inspectors had questions regarding contradictory information provided in the licensee's annual reports which described all perched wells as "dry", yet the licensee reported water level measurements for three of these wells (TMWs 54, 55 and 67). The inspectors observed site personnel obtaining water level and total depth measurements in 16 perched wells selected by the inspectors. Ten of the wells (TMWs 19, 22, 21, 30, 34, 38, 65, 88, 80 and 85) were found to be dry, but six wells (TMWs 54, 55, 67, 74, 87 and 86) contained between 3 and more than 19 feet of water. The inspectors concluded that this finding was not safety significant, but future groundwater corrective action reports should be modified to reflect the as-found conditions in the field.

The Groundwater Elevations table has been modified to reflect the measurements taken during the inspection. In addition, water level measurements were taken of all of the perched (shallow) wells on December 14, 2016. This data was presented in the Groundwater Elevations table in the 2016 Corrective Action Program (CAP) Review. The Monitor Well Coordinate table has been revised to reflect the status of the perched (shallow) wells as of December 14, 2016, when water levels were taken for these wells. The current (2017) Groundwater Elevations table in this document only includes groundwater elevation data for five (5) perched wells, those being TMW's – 54, 55, 67, 83, and 87.

The table below shows the December 14, 2016 depths to water versus total depths from the completion records for the perched wells, as well as casing tops (casing heights above ground) and total depths measured during the inspection on September 20, 2016.

Well Number	Total Depth from Completion Record	Total Depth and Casing Top Measurements - September 20, 2016		Depth to Water – December 14, 2016	Comments
		Total Depth Below Casing Top Measured with Tape (September 20, 2016)	Casing Top Height Above Ground		
	(Feet)	(Feet)	(Feet)	(Feet)	
TMW-19	38	36	0.81	DRY	
TMW-20	59			59.51	Small amount of water at casing bottom
TMW-21	53	55.21	1.42	DRY	
TMW-22	48	49.90	1.45	49.25	Small amount of water at casing bottom
TMW-23	44.5			DRY	
TMW-30	38.5	38.75	0.83	DRY	
TMW-34	35.7	37.24	1.55	DRY	
TMW-38	97	107.62	1.56	DRY	
TMW-54	58.5	61	1.15	58.26	2.7 feet of water above measured total depth of well
TMW-55	75	76.37	1.48	56.98	19.4 feet of water above measured total depth of well
TMW-65	77.1	83.02	1.40	DRY	
TMW-66	68			DRY	
TMW-67	72	79.33	1.55	71.80	7.5 feet of water above measured total depth of well
TMW-68	91			93	Small amount of water at casing bottom
TMW-74	62.5	67.49	0.92	64.39	3.1 feet of water above measured total depth of well
TMW-76	76			DRY	
TMW-77	30.5			DRY	
TMW-79	60			DRY	
TMW-80	82	85.21	1.44	DRY	
TMW-81	47.5			DRY	
TMW-83	65			64.10	Small amount (0.9 feet) of water above casing bottom
TMW-85	90	98.5	1.82	DRY	
TMW-86	89.5	87.5	1.99	81.84	7.66 feet of water above measured total depth of well
TMW-87	88	96.5	2.15	89.99	6.5 feet of water above measured total depth of well
TMW-88	85.5	94.14	1.88	DRY	

Note: Sixteen (16) of the twenty-five (25) perched wells were measured during the September 20, 2016 inspection.

Of the twenty-five (25) perched wells listed in the table above fifteen (15) are entirely dry. Six (6) of the wells have small (up to 3.1 feet in the case of TMW-74) amounts of water above the casing bottom. It would be impossible to pump and obtain a high quality water sample from wells with so little water.

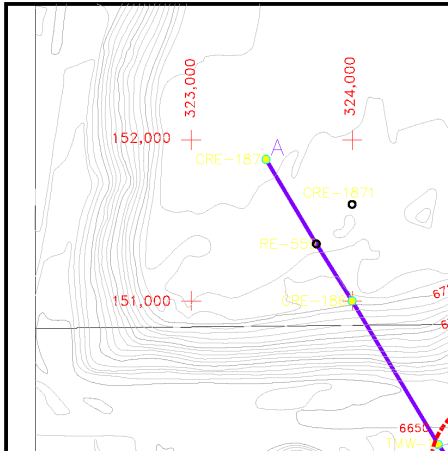
Only four (4) perched wells; TMW-55, 67, 86 and TMW-87 have any significant (greater than 3.1 feet) water in them (19.4 feet above the measured casing bottom in the case of TMW-55, 7.5 feet in the case of TMW-67, 7.66 feet in the case of TMW-86 and 6.5 feet in the case of TMW-87). It was possible to obtain a sample of TMW-55. It was sampled on August 4, 2015 as part of the preparation of the responses to the Requests for Additional Information (RAIs) related to the July 24, 2014 license renewal application. The sampling data was presented in the response document. The Combined Radium-226/228 result was 3.5 pCi/L which is below the Groundwater Protection Standard (GPS) of 5.8 pCi/L and below the Combined Radium-226/228 activity of the June 8, 2016 tailings fluid sample of 29.2 pCi/L. TMW-55 and TMW-83 were pumped dry in the fall of 1989 with a total of 101,875 gallons pumped from them.

It should be noted that TMWs-30, 34, 38, 76, 77 and 85 which are all near the impoundment's Northeast corner where the leak occurred in 1983 are all now dry. TMWs- 76 and 85 had fluids pumped from them. Pumping from TMW-76 ceased by April 1, 1988 with a total slightly exceeding 43,293 gallons pumped from it. Pumping from TMW-85 ceased by April 1, 1987 with a total of 142,110.2 gallons pumped from it. These wells were pumped dry and remained so as of 2016.

TMWs-55 and 76 along with other selected perched wells were measured and discussed with staff during the September 20, 2016 inspection and it was concluded that "...this finding was not safety significant, but future groundwater corrective action reports should be modified to reflect the as-found conditions in the field."

This has been done and the Monitor Well Coordinates table has been modified to reflect conditions as of December 14, 2016.

The approximate limits of the perched zone are shown in the map below from the Addendum to the Revised Environmental Report – Geologic Cross Sections and Aquifer Information dated July, 1995:



The response to the Request for Additional Information (RAI) analyzed the current status of the perched zone and the presence of water in TMW-55 and concluded:

The potential for tailings fluid migration within the perched horizon is strictly vertical and driven by precipitation recharge because:

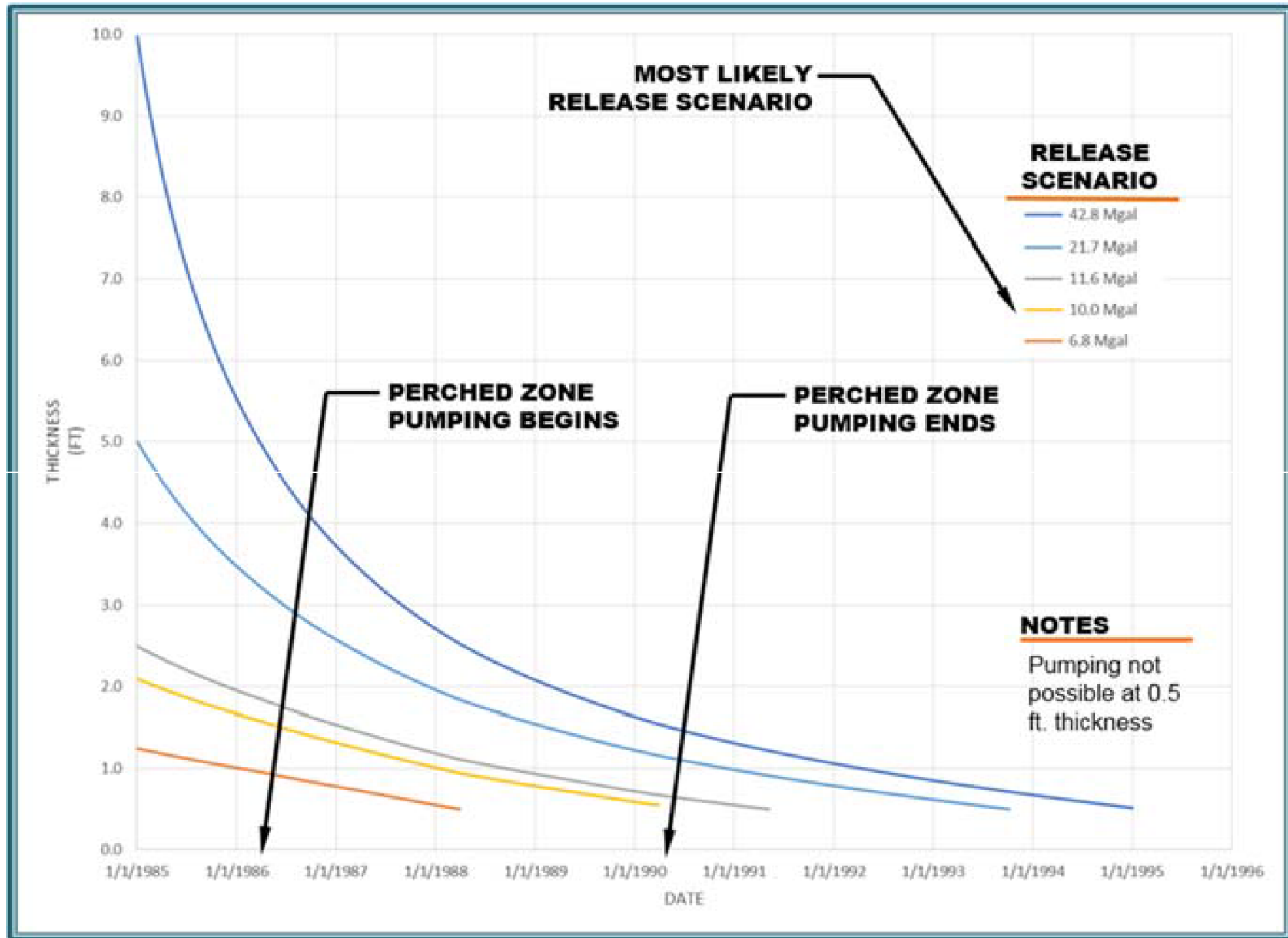
- *The mounded portion of the initial fluid volume released has essentially entirely drained to the underlying aquifer*
- *The clay lens likely binds remnant constituents that are transported via vertical percolation driven by precipitation recharge*

The potential for radium-226/228 from the tailings fluids to migrate beyond the current extents in the Battle Spring Aquifer is very unlikely because:

- *Tailings fluids have drained from the perched zone and cannot migrate horizontally*
- *Percolated fluids from the clay lenses in the perched zone are entirely within the Mill-area capture zone created by CAP pumping (shown on Figure I-8). Note: Please refer to the response to the July 13, 2015 Request for Additional Information (RAI) dated October 12, 2015 to see this figure.*

Moreover, water leaching downward from the perched zone does not and will not be expected to carry radium-226/228 in concentration nor in volume sufficient to materially affect water quality in the Battle Spring Aquifer.

A Conceptual Perched Zone Water Flow Summary from the response to the July 13, 2015 Request for Additional Information (RAI) is included below:



The two (2) perched wells, TMW-90 and TMW-105 that were pumped during 2005 in preparation for the excavation of the contaminated soils beneath and around the Catchment Basin were removed at the completion of the excavation, prior to backfilling. These wells were located just west of the Catchment Basin and were pumped to remove fluid (spilled during operation of the Catchment Basin from 1980-1983) that was perched on a clay layer approximately forty (40) feet below ground surface, in part, to prepare the area for excavation.

These two wells were not considered part of the ground water Corrective Action Program (CAP) since their purpose was to recover spilled fluid as opposed to recovering contaminated ground water from the Battle Spring Aquifer, which is what the CAP regulates.

The use of these wells to recover these fluids was authorized by the site's Safety and Environmental Review Panel (SERP) under Safety and Environmental Evaluation (SEE) #6, approved on September 9, 2003, and an amendment to that document approved on March 26, 2004. These documents were inspected by the Nuclear Regulatory Commission (NRC) during an inspection on July 21, 2004. The inspector concluded that: *"The SEEs were found to be technically adequate. The SERP had made decisions in accordance with the conditions of the performance based license."*

The table below summarizes the performance of these wells:

WELL #	DATE STARTED	DATE SHUT DOWN	FLOW RATE (Gallons per Minute)	VOLUME PUMPED (Gallons)
TMW-90	03/01/05	11/14/05	0.01	3,693
TMW-105	03/15/05	11/14/05	0.02	7,123

Water sample data, flow information and salts removed data for these wells are included in the 2005 report. The wells were pumped by venturi pumps installed at the well bottom, driven by surface feed pumps, and a reservoir barrel, which overflowed into a tank that was pumped periodically to the tailings impoundment.

The pumping of these wells was successful in that when the Catchment Basin excavation attained its complete depth (essentially the bottoms of these wells), no substantial amounts of free perched fluid were encountered. Pumping of these wells allowed for a dry excavation bottom. These wells were removed once the excavation attained bottom (approximately 6585 feet above mean sea level) in the area around these wells. The area around TMW-90 was excavated deeper than the planned depth of 6590 feet above mean sea level to remove some hydrocarbon contamination around the well.

Aquifer Wells

Tails Monitor Wells (TMW-) 7, 17, 18, 57, 58, 59, 75, 96 and 97 (pumpback wells west of the Catchment Basin) were pumped into the tails cell during 2016 at the following rates:

WELL #	PUMP HORSEPOWER	ANNUAL AVG. RATE (GPM)	OPERATING DAYS AT LISTED RATE
TMW-7	¾ HP	3.76	365
TMW-17	¾ HP	10.87	365
TMW-18	¾ HP	11.87	365
TMW-57	¾ HP	4.19	219
TMW-58	¾ HP	8.37	219
TMW-59	¾ HP	8.05	365
TMW-75	¾ HP/½ HP Controller	2.46	365
TMW-96	¾ HP	5.87	216
TMW-97	¾ HP	6.72	216
TOTAL		60.87	

Note: Extended periods of down time are not included in well operating time for computation of flow rates.

TMW-75 and TMW-17 were pumped to collect the portion of the excursion along the cell's north wall. Wells 7, 18 and 59 maintained a cone of depression along the west side of the tailings cell intercepting the major portion of the excursion. TMW-57 and TMW-58 maintained a cone of depression extending west of the western side of the cell, centered on these two (2) wells. TMW-57 and 58 were not pumped for the entire year since their Total Dissolved Solids (TDS) levels are lower (401 ppm and 991 ppm, respectively, July 2017) and they are farther from the tailings impoundment, meaning that the lines leading from them to the impoundment are more prone to freezing in winter. This was the case as well with TMW-96 and 97 that are on the east side of the Solvent Extraction (SX) building. These two (2) wells maintain a cone of depression in the vicinity of the now removed Catchment Basin.

TMW-18 and 59 were pumped at the highest rates and for the longest periods of time since they contained the water with the highest Total Dissolved Solids (TDS) concentrations, 2160 and 2190 ppm respectively (January 14, 2015).

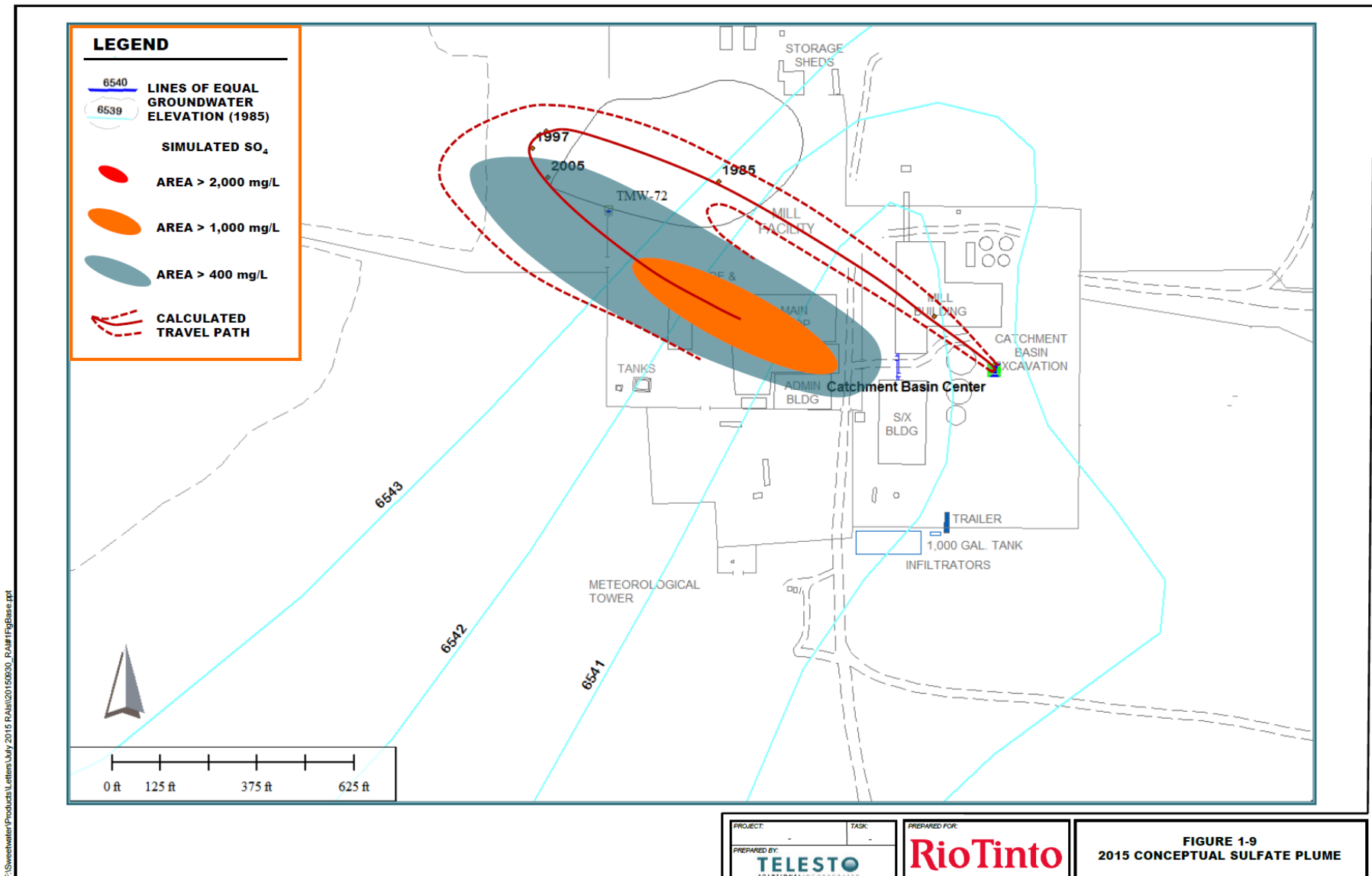
TMW-96 and TMW-97, located along the east wall of the Solvent Extraction Building, were pumped to collect the highest levels of uranium in the Catchment Basin plume. TMW-96 and 97 have shown a remarkable drop in contaminant concentrations since pumping started. TMW-96 has gone from a Total Dissolved Solids (TDS) concentration of 2430 mg/L (9/20/04) to a low of 655 mg/L (10/21/14) and a uranium concentration of 760 pCi/L (9/20/04) to a low of 13.9 pCi/L (10/1/13). TMW-97 has gone from a TDS concentration of 2210 mg/L (3/7/05) to a low of 731 mg/L (10/1/13) and a uranium concentration of 548 pCi/L (3/7/05) to 21.8 pCi/L (10/01/13). Kennecott Uranium Company believes that these declines indicate that the plume associated with the Catchment Basin is of limited magnitude. The lowest Total Dissolved Solids (TDS) concentrations for these two (2) wells were observed while they were being actively pumped. Given their long distance from the impoundment (approximately ¼ mile) they are shut down during cold weather since they are prone to freezing.

The response above to the July 13, 2015 Request for Additional Information (RAI) supports the above articulated belief that the Catchment Basin plume is of limited magnitude. The response concludes:

Pumping at the Catchment Basin that began in 2005 started moving the eastern portion of the sulfate plume back toward the Mill area

TMWs 18 and 59 continue to exhibit the highest Total Dissolved Solids (TDS) of any of the pumpback wells at a maximum of 1990 ppm and 2020 ppm each respectively in July 2017.

The drawing below from the response to the July 13, 2015 Request for Additional Information (RAI) supports the above statement regarding the sulfate plume: No sulfate concentrations in excess of 2000 milligrams per liter have been detected west of the Mill building. The plume is depicted by sulfate concentrations exceeding 400 and 1,000 milligrams per liter.



TMW-16 was replaced with a new well, TMW-7, completed approximately sixty (60) feet south of it, on August 18, 2003. TMW-16 exhibited continuing problems and would not, in spite of repeated attempts to clean, acidize or bleach it, yield sufficient water to support a pump. When operating it would yield water; however, the well would frequently cease pumping and be down for extended periods while being cleaned. TMW-7 was screened at a depth (100-150 feet) that fully overlapped the completion interval (120-145 feet) of TMW-16. TMW-16 ceased pumping on May 15, 2003. Pumping was initiated in TMW-7 on December 1, 2003. Completion of this replacement well was discussed with Elaine Brummett in a telephone conversation at 1:50 pm on August 20, 2003, and a follow-up email message on that date. The well produced 3.76 gallons per minute of water in 2017 and has not required any of the maintenance or cleaning that its predecessor, TMW-16, required.

A pump was installed and started in TMW-58 in late June of 1994. The well was completed in July 1985. TMW-58 continues to yield water at a rate of 6.21 gallons per minute in 2014. Installation of the pump followed receipt of a letter dated April 8, 1994 from NRC/URFO which stated, *"We find that the proposed changes to your Corrective Action Program (CAP) are responsive to our review findings submitted to your company on September 3, 1992. We also consider that specific seepage collection locations are no longer required. Rather, Kennecott should use its discretion in maintaining the CAP, and all changes should be described in routine annual progress reports."*

This letter was in response to a review prepared by Kennecott Uranium Company and submitted in response to a letter dated September 3, 1992 which was received from NRC/URFO requesting Kennecott Uranium Company to review the most recent monitoring data from the Corrective Action Program (CAP) and propose modifications to the program. The review dated December 4, 1992 and submitted to NRC/URFO contained the following conclusions:

1. The contaminant plume is confined solely to the upper fifty (50) feet of the saturated zone of the Battle Spring Formation. This conclusion is based on the sample results from three (3) monitor wells completed in deeper sand in 1991, which show no evidence of contamination.
2. The existing five (5) pumpback wells are adequate to recover the groundwater contaminated by past leakage.

Kennecott Uranium Company, in order to accelerate the remediation process, had requested an amendment to SUA-1350 in the December 4, 1992 review to install a pump of at least 1/3 horsepower in TMW-58. Upon receipt of the letter dated December 4, 1992, however, it became clear that such an amendment was not required.

A pump was installed in TMW-57 on May 17, 2001. This well yielded an average of 4.19 gallons per minute during 2017.

The observed TDS values in TMW-63 and TMW-18 are within approximately 63% of each other. (See Comparison of TMW-18 and TMW-63, below.) There is a difference in Total Dissolved Solids concentrations vertically across the upper fifty-feet of the aquifer. The Total Dissolved Solids (TDS) concentration in TMW-63 which samples approximately the upper twenty (20) feet of the aquifer is 63% higher than in TMW-18 which samples approximately the upper fifty (50) feet of the aquifer.

COMPARISON OF TMW-18 AND TMW-63

MAJOR IONS mg/l:	TMW-18 7/31/17	TMW-63 6/9/17	Reporting Limit 7/15/16
Ca	444	758	0.5
Mg	43	55	0.5
Na	93.2	128	0.5
K	6.3	8	0.5
CO3	<1	<1	5.0
HCO3	447	827	5.0
SO4	954	1480	2.0
Cl	82	221	1.0
NO3	<0.1	<0.1	0.1
F	<0.1	<0.1	0.1
SiO2	21	22.9	0.2
TDS @ 180° C.	2100	3250	20
Cond (umho/cm)	2450	3690	5.0
Alk-CaCO3	366	678	5.0
pH (units)	7.08	7.03	0.01
TRACE METALS mg/l:			
Al	<0.10	<0.10	0.1
As	<0.001	<0.001	0.001
Ba	<0.10	<0.10	0.1
Be	<0.01	<0.01	0.01
B	<0.10	<0.10	0.1
Cd	<0.005	<0.005	0.005
Cr	<0.01	<0.01	0.01
Co	<0.001	<0.001	0.001
Cu	<0.01	<0.01	0.01
CN	<0.005	<0.005	0.005
Fe	7.99	<0.05	0.05
Pb	<0.01	0.2	0.01
Mn	1.5	0.59	0.01
Hg	<0.0002	<0.0002	0.0002
Mo	<0.01	<0.01	0.01
Ni	<0.01	<0.01	0.01
Se	<0.001	<0.001	0.001
Ag	<0.01	<0.01	0.01
Tl	<0.01	<0.01	0.01
V2O5	<0.1	<0.1	0.1
Zn	<0.01	0.02	0.01
RADIOMETRIC pCi/L:			
U	0.8	2.0	0.2
Ra226	2.7 ± 0.62	2.9 ± 0.64	
Ra228	12.8 ± 2.6	11.8 ± 2.4	
Th230	0.02 ± 0.08	0.007 ± 0.05	
Pb210	2.5 ± 3.2	0.2 ± 0.9	
Gross Alpha	7.3 ± 2.2	6.3 ± 2.1	
Q.A. DATA %:			
Anion/Cation Bal:	0.73	-2.50	

In the summer of 1991, TMW-8, TMW-24 and TMW-47 were completed in the Battle Spring Aquifer at depths below 200 feet to test saturated sands beneath a clay layer separating them from the upper fifty (50) feet of the saturated zone. Samples from wells TMWs 8, 24 and 47 (shown on the following table, *Lower Saturated Sand Monitor Well Sampling Results*) however, clearly show that the contaminants have not penetrated the sands beneath the upper fifty (50) feet of the saturated zone since the TDS concentrations in 2017 were all below 200 parts per million. While TMW-47 has shown and now shows (7.3 pCi/L – 8/15/17) some elevated Combined Radium-226/228 results, this is believed not to be anthropogenic, but rather due to fluctuations in background. This is based upon the fact that the Total Dissolved Solids (TDS) concentrations in TMW-47 have historically been low (less than 200 milligrams per liter) and at background levels.

LOWER SATURATED SAND MONITOR WELL SAMPLING RESULTS

MAJOR IONS	TMW-8	TMW-24	TMW-47	Reporting Limit
mg/l:	7/24/17	8/2/17	8/15/17	2/10/16
Ca	22.3	20.4	20.3	0.5
Mg	0.9	0.9	0.9	0.5
Na	47	29.7	32.7	0.5
K	1.6	1.4	1.4	0.5
CO3	<1	<1	<1	5.0
HCO3	107	111	121	5.0
SO4	47	34	32	1.0
Cl	3	2	2	1.0
NO3	<0.1	<0.1	<0.1	0.1
F	0.1	0.2	0.2	0.1
SiO2	13.8	13.0	13.4	0.2
TDS @ 180° C.	184	159	153	10
Cond (umho/cm)	273	249	243	5.0
Alk-CaCO3	88	91	99	5.0
pH (units)	8.17	8.25	8.25	0.01
TRACE METALS, mg/l:				
Al	<0.1	<0.1	<0.1	0.1
As	0.001	0.001	0.001	0.001
Ba	<0.1	<0.1	<0.1	0.1
Be	<0.01	<0.01	<0.01	0.01
B	<0.1	<0.1	<0.1	0.1
Cd	<0.005	<0.005	<0.005	0.005
Cr	<0.01	<0.01	<0.01	0.01
Co	<0.001	<0.001	<0.001	0.001
Cu	<0.01	<0.01	<0.01	0.01
CN	<0.005	<0.005	<0.005	0.005
Fe	<0.05	<0.05	<0.05	0.05
Pb	<0.01	<0.01	<0.01	0.01
Mn	0.02	0.01	<0.01	0.01
Hg	<0.0002	<0.0002	<0.0002	0.0002
Mo	<0.01	<0.01	<0.01	0.01
Ni	<0.01	<0.01	<0.01	0.01
Se	<0.001	<0.001	<0.001	0.001
Ag	<0.01	<0.01	<0.01	0.01
Tl	<0.01	<0.01	<0.01	0.01
V2O5	<0.1	<0.1	<0.1	0.1
Zn	<0.01	<0.01	<0.01	0.01
RADIOMETRIC pCi/L:				
U	1.1	0.4	0.7	0.2
Ra226	0.61 ± 0.18	0.62 ± 0.17	3.6 ± 0.76	
Ra228	0.8 ± 0.9	1.8 ± 0.8	1.1 ± 0.8	
Th230	<0.2	0.05 ± 0.1	0.07 ± 0.1	
Pb210	<1.0	0.7 ± 0.9	1.4 ± 0.9	
Gross Alpha	1.1 ± 1.0	4.4 ± 1.6	3.6 ± 1.2	
Q.A. DATA %:				
A/C Balance (±5)	0.09	-3.64	-3.07	

During 1995, Shepherd Miller, Inc. completed a background groundwater study for the area around the Sweetwater Uranium Project. The object of this study was to define background in groundwater around the Sweetwater Uranium Project for a number of chemical and radiological constituents. The study examined the results of over 1000 groundwater samples collected in the vicinity of the project including samples from TMWs 8, 24 and 47 and concluded, "Water quality sampling of three wells completed within the lower saturated sand, TMWs 8, 24 and 47, shows it to be unaffected by seepage from the cell, indicating that flow from the upper to lower saturated sands is retarded by the clay stone layer." Thus samples from TMWs 8, 24, and 47 show that the contamination is confined to, and distributed in, the upper fifty (50) feet of the saturated zone of the Battle Spring Aquifer and penetrates no deeper.

This issue was re-examined in 2008 by Telesto Solutions, Inc., who in their report entitled "Final Draft Groundwater Plume Interpretation Revision III", stated:

Monitoring wells TMW-8 and 24 were completed in a deeper sand of the Battle Spring Aquifer to determine if

there is downward migration of affected ground water into the lower portion of the aquifer (Kennecott Uranium Company, 1994). Chemical concentration plots of the deep wells and adjacent shallow-completion wells (TMW-58 and -82) confirm the conclusion of no significant downward migration of affected ground water over the period of sampling (1991 to present). The deep wells do not exhibit the concentration spikes for U-Nat, Ra226-228, sulfate and TDS that are observed in the shallow wells (Attachment A).

Chemical concentration plots for shallow well TMW-48 and adjacent deep well TMW-47 indicate that impacted ground water is not currently present south of the Tailings Impoundment.

(Please note that only the *text* from the Telesto Solutions, Inc. report has been included in this discussion. Any attachments or figures mentioned in the quoted text have not been included.)

The 1995 and 2008 evaluations conclude that deeper sands are not impacted by the tailings impoundment leak.

Kennecott Uranium Company submitted a study entitled “Addendum to the Revised Environmental Report Background Ground Water Quality and Detection Standards” on February 2, 1996. This study examined the results of over 1000 water samples, with the intent of defining background parameters for chemical and radiological constituents in the Battle Spring Aquifer around the site. The study proposed new Groundwater Protection Standards (GPS) for the site based upon these newly developed background values. This study was submitted with a request to amend SUA-1350 to change the Groundwater Protection Standards to the levels proposed in the study as well as to eliminate some groundwater protection standards (GPS).

By license amendment dated May 28, 1998, the NRC amended the Groundwater Protection Standards in SUA-1350 to those values requested by Kennecott Uranium Company in an amendment request dated January 1996 entitled “Addendum to the Revised Environmental Report - Background Ground Water Quality and Detection Standards”. In addition, Groundwater Protection Standards for barium, cyanide, lead, mercury, molybdenum, silver and thallium were deleted from the license. The table below outlines the changes to the Groundwater Protection Standards in SUA-1350. The control charts reflect these Groundwater Protection Standards.

Constituent	Former NRC Ground Water Protection Standard, License SUA-1350	Revised NRC Ground Water Protection Standard, License SUA-1350
		(Revised May 28, 1998)
Arsenic	0.05 mg/l	0.05 mg/l
Barium	1.0	Deleted
Beryllium	0.01	0.01 mg/l
Cadmium	0.01	0.01 mg/l
Chromium	0.05	0.05 mg/l
Cyanide	0.005	Deleted
Lead	0.05	Deleted
Lead ²¹⁰	1.4 pCi/l	8.9 pCi/l
Mercury	0.002	Deleted
Molybdenum	0.04	Deleted
Nickel	0.01	0.01 mg/l
Ra ²²⁶ /Ra ²²⁸	2.8 pCi/l	5.8 pCi/l
Selenium	0.01	0.01 mg/l
Silver	0.05	Deleted
Thallium	0.01	Deleted
Thorium ²³⁰	10.0 pCi/l	7.0 pCi/l
Natural Uranium	1.7 pCi/l	36.0 pCi/l
Gross Alpha	6.6 pCi/l	15 pCi/l
		Added May 26, 2005
Aluminum	None	1.8 mg/l
Iron	None	0.6 mg/l
Manganese	None	0.2 mg/l
1,1-dichloroethane	None	3.0 mg/l
1,1-dichloroethene	None	0.007 mg/l
DRO	None	10 mg/l
GRO	None	10 mg/l
Naphthalene	None	1.5 mg/l
Toluene	None	1 mg/l
1,1,1-Trichloroethane	None	0.20 mg/l
1,2,4-Trimethylbenzene	None	0.012 mg/l
1,3,5-Trimethylbenzene	None	0.012 mg/l
M+p xylenes	None	10 mg/l

In a submittal dated December 15, 2004 Kennecott Uranium Company proposed groundwater protection standards (GPS) for aluminum, iron, manganese and ten (10) organic constituents. These proposed standards are also based on the background ground water study. They have been approved. They were proposed in response to the contamination of the aquifer found around the Catchment Basin. These are shown as well, in the table above.

The ground water Corrective Action Program was revised to include the groundwater plume around the Catchment Basin by a license amendment dated May 26, 2005. This amendment was granted following these submittals and an Environmental Assessment (EA):

- Source Material License SUA-1350 Request for Amendment to License Condition 11.3 – Groundwater Corrective Action Program – May 12, 2004
- Response to Comments – July 22, 2004
- Response to Request for Additional Information – October 28, 2004
- Environmental Assessment for Amendment of Source Material License SUA-1350 for the Catchment Basin Reclamation – May 5, 2005

This report includes the plume around the tailings impoundment and the Catchment Basin.

Maps of the natural uranium, combined radium 226/228 and sulfate plumes are included in this report. These maps are different from those in prior reports. There is not a Total Dissolved Solids (TDS) map. It has been replaced with Sulfate map, since Sulfate is the primary driver of total dissolved solids in the plume.

The maps included in this report are as follows:

- Monitor Well locations – 2017 Corrective Action Programs (CAP) Review
 - This map depicts the locations and types of wells completed and boreholes drilled within the immediate vicinity of the Mill and Tailings Impoundment
- Figure-1 – Site Facilities Map
 - This map depicts the infrastructure around the site, the reclaimed Sweetwater Pit and the outline of

mineralization West of the site.

- Figure-2 – 2017 Borehole and Well locations
 - This map depicts the locations of the wells completed and the boreholes drilled around the site as part of the Fall 2017 plume characterization effort
- Figure-3 – 2017 Spring Groundwater Surface
 - This map provides groundwater surface contours for the Battle Spring Aquifer around the site for Spring 2017 using data from the wells that existed at that time. As such, water elevation data from the MAC and DAC wells completed in the Fall of 2017 was not used in the preparation of this map.
- Figure-4 – 2017 Fall Groundwater Surface
 - This map provides groundwater surface contours for the Battle Spring Aquifer around the site for Fall 2017 using pre-existing well data as well as data from newly completed characterization plan wells MAC-2 and MAC-3 that were drilled early enough in Fall 2017 that data from them represented nearly the same period in time as data collected from other regional wells surround the map area that provide regional groundwater elevation.
- Figure-5 – Preliminary U-Natural Source Extent map – Fall 2017
 - This map depicts the extent of elevated uranium in the Battle Spring Aquifer attributed to the leakage from the tailings impoundment and Catchment Basin.
- Figure-6 – Preliminary U-Natural Concentration Map – Fall 2017
 - This map depicts the entire extent of the area in the Battle Spring Aquifer containing uranium in excess of the Groundwater Protection Standard (GPS) of 36 pCi/L regardless of where the uranium's origin is natural or related to the leakage from the Catchment Basin of tailings impoundment.
- Figure-7 – Preliminary Sulfate Source Extent Map – Fall 2017
 - This map depicts the extent of elevated Sulfate in the Battle Spring Aquifer attributed to leakage from the tailings impoundment and Catchment Basin.
- Figure-8 – Preliminary Sulfate Concentration Map – Fall 2017
 - This map depicts the entire extent of the area in the Battle Spring Aquifer containing Sulfate in excess of 400 milligrams per liter regardless of the source of the Sulfate (natural or due to leakage from the tailings impoundment or Catchment Basin).
- Figure-9 – Preliminary Radium Source Extent Map – Fall 2017
 - This map depicts the extent of elevated combined Radium-226/228 in the Battle Spring Aquifer attributed to leakage from the tailings impoundment and Catchment Basin.
- Figure-10 – Preliminary Radium Concentration Map – Fall 2017
 - This map depicts the entire extent of the area in the Battle Spring Aquifer with combined Radium-226/228 in excess of the Groundwater Protection Standard (GPS) of 5.8 pCi/L regardless of the source of the Combined Radium-226/228 (natural or due to leakage from the tailings impoundment or Catchment Basin).

These maps are preliminary and based solely on drilling and data collected in 2017. Additional drilling and sampling may be performed in 2018 to further understand the distribution of natural uranium, combined Radium-226/228, and Sulfate in the Battle Spring Aquifer both near the facility and downgradient of it. The fact that this preliminary data will be submitted with this report was discussed with James Webb in telephone conversations and in e-mails on February 8, 2018.

These maps are described in the discussion dated February 20, 2018 below from Telesto Solutions, Inc:

Visual depictions of natural uranium concentrations at the Project are attached as Figures 5 and 6. Two depictions are provided to reflect uncertainty in defining the extents of the natural uranium plume. Site characterization conducted in 2017 in the mill area and downgradient from the mill has indicated the presence of natural sources of uranium in the Battle Spring Formation. These natural sources reflect a distribution of roll-front mineralization present in the mill vicinity. This mineralization resulted in natural uranium present in sufficient volume such that Minerals Exploration Company in the 1970s defined an economically recoverable ore zone (Figure 1). While this area of relatively high uranium concentrations is not now economically recoverable, high concentrations of natural uranium are observable in regional wells. North Camp Well data for example, indicate a median pre-mining natural uranium concentration of 2.20 mg/L (1,489 pCi/L), and a median post-mining natural uranium concentration of 1.83 mg/L (1,240 pCi/L). Uranium mineralization was observed in the 2017 characterization both in the mill vicinity and downgradient. These data and conclusions will be discussed in greater detail as part of a CAP Revision required by the NRC in a letter dated August 9, 2016, anticipated to be completed by August 2018.

Consequently, uranium in the groundwater in the mill and tailings impoundment vicinity has been sourced both naturally and from tailings impoundment leakage and catchment basin seepage. The uranium concentration data are plotted on Figure 5 by differentiating into either primarily naturally sourced or primarily mill-influenced plume segments. The data and justification for this differentiation by source type will be addressed in the proposed CAP Revision anticipated by August 2018. The uranium concentration data have been plotted without source differentiation on Figure 6. The area of the uranium plume with concentrations in excess of 36 pCi/L is 51.5 acres.

Similarly, sulfate and radium-226/228 data have been plotted with and without source differentiation on Figures 7 through 10. The area of the undifferentiated sulfate plume with concentrations in excess of 400 mg/L is 90.7 acres. The area of the undifferentiated radium-226/228 plume with concentrations in excess of 5.8 pCi/L is 91.1 acres.

A proposed revision to the Corrective Action Program (CAP) based upon the findings of the characterization work including potential additional drilling and sampling in 2018 will be submitted by August 2018, that will provide additional information (data) as well as detailed justifications for how natural uranium, combined Radium-226/228 and Sulfate can be differentiated by source type, either naturally sourced or sourced from site operations.

The table on the following page entitled Monitor Well Coordinates shows the screened intervals in the vicinity of the tailings impoundment for the wells around the tailings impoundment and Catchment Basin and West of the Mill Building. The plume exists in the upper saturated fifty (50) feet of the Battle Spring Formation, roughly from 100 to 150 feet below surface.

All of the perched (shallow) aquifer wells were measured on December 14, 2016 and this table has been revised based on those measurement, to show as “Dry” only those wells that have been measured and proven to contain no water, whatsoever at that time.

MONITOR WELL COORDINATES

WELL #:	NORTHING	EASTING	SURFACE ELEVATION	CASING HEIGHT	CASING ELEVATION	T.D. ELEVATION	PERCH (P)/AQUIFER(A)	SCREEN INTERVAL
TMW 1	150,107.66	324,536.42	6,648.22	0.00	6,648.22	300.00	A	160-260, 280-300
TMW 2	147,133.96	324,360.13	6,626.32	0.77	6,627.09	300.00	A	135-295, 295-300
TMW 3	145,984.03	324,361.03	6,624.74	1.53	6,626.27	300.00	A	100-267
TMW	147,141.81	323,176.55	6,625.74	1.15	6,626.89	267.00	A	100-267
TMW 5	149,053.50	328,102.80	6,656.49	2.10	6,658.59	270.00	A	100-267
TMW 6	145,356.25	327,464.50	6,640.26	1.40	6,641.66	267.00	A	100-267
TMW 7	149,339.63	325,014.08	6,652.96	1.44	6,654.40	150.00	A	100-150
TMW 8	149,912.15	324,561.80	6,645.64	0.83	6,646.47	260.00	A	220-240
TMW 10	149,145.59	323,037.81	6,556.23	0.69	6,556.92	19	A	0
TMW 15	147,910.39	325,006.29	6,642.09	1.17	6,643.26	128.00	A	78-120
TMW 16	149,397.99	325,023.08	6,654.35	1.27	6,655.62	145.00	A	95-145
TMW 17	149,602.14	325,994.00	6,660.19	0.68	6,660.87	150.00	A	100-150
TMW 18	148,922.42	325,018.57	6,654.91	1.07	6,655.98	146.00	A	96-146
TMW 19	149,601.80	326,095.60	6,660.36	1.18	6,661.54	38.00	P (DRY)	20-38
TMW 20	149,700.99	325,592.79	6,659.62	1.67	6,661.29	59.00	P	39-59
TMW 21	149,700.09	325,793.65	6,658.05	1.35	6,659.40	53.00	P (DRY)	33-53
TMW 22	149,701.66	325,893.48	6,658.27	1.41	6,659.68	48.00	P	28-48
TMW 23	149,703.49	325,993.59	6,658.32	0.96	6,659.28	44.50	P (DRY)	15-44.5
TMW 24	150,307.90	325,992.24	6,659.20	2.01	6,661.21	245.00	A	215-235
TMW 29	150,108.27	326,786.49	6,655.98	0.66	6,656.64	150.00	A	100-150
TMW 30	149,708.73	326,995.29	6,658.41	0.81	6,659.22	38.50	P (DRY)	18.5-38.5
TMW 31	149,901.61	327,194.15	6,660.04	1.05	6,661.09	149.50	A	99.5-149.5
TMW 34	149,487.48	326,987.78	6,656.35	1.57	6,657.92	35.70	P (DRY)	24.7-35.7
TMW 35	149,509.35	327,198.92	6,656.54	1.21	6,657.75	147.00	A	97-147
TMW 36	149,108.62	327,007.02	6,656.48	1.27	6,657.75	146.00	A	96-146
TMW 37	148,455.68	326,999.77	6,649.39	1.34	6,650.73	138.50	A	88.5-138.5
TMW-38	149,353.55	326,798.27	6,656.78	2.07	6,658.85	97.00	P (DRY)	67-97
TMW 44	147,612.17	325,588.96	6,636.84	0.68	6,637.52	135.00	A	85-135
TMW 45	147,619.66	326,196.14	6,640.37	0.63	6,641.00	135.00	A	85-135
TMW 47	147,310.10	326,491.24	6,638.73	1.62	6,640.35	230.00	A	197-217
TMW 48	147,312.58	326,482.99	6,638.50	1.22	6,639.72	160.00	A	100-150
TMW 49	147,708.93	324,836.10	6,639.23	0.96	6,640.19	150.00	A	100-150
TMW 50	148,198.81	324,697.71	6,646.76	1.04	6,647.80	150.00	A	100-150
TMW 51	147,995.26	324,449.18	6,648.40	1.60	6,650.00	170.00	A	110-160
TMW 52	148,316.56	324,221.64	6,643.25	1.45	6,644.70	150.00	A	100-150
TMW 53	147,849.28	323,913.72	6,640.03	1.44	6,641.47	160.00	A	100-150
TMW 54	149,122.85	324,827.05	6,650.73	1.33	6,652.06	58.51	P	43.5-58.5
TMW 55	149,098.35	324,587.76	6,648.10	1.38	6,649.48	75.00	P	49-75
TMW 56	149,105.02	324,418.67	6,646.15	1.57	6,647.72	137.00	A	87-137
TMW 57	149,296.82	324,590.47	6,647.74	2.12	6,649.86	137.00	A	87-137
TMW 58	148,915.74	324,570.92	6,645.75	1.21	6,646.96	137.00	A	87-137
TMW 59	148,403.85	325,013.86	6,647.46	0.69	6,648.15	138.00	A	90-138
TMW 61	148,422.32	324,592.68	6,648.30	1.06	6,649.36	150.00	A	100-150
TMW 62	148,789.00	324,277.11	6,645.12	1.01	6,646.13	150.00	A	100-150
TMW 63	148,924.39	325,009.90	6,653.83	0.94	6,654.77	130.00	A	110-130
TMW 64	149,797.71	324,991.71	6,651.55	0.70	6,652.25	150.00	A	97-147
TMW 65	149,805.22	325,191.36	6,653.48	1.40	6,654.88	77.85	P (DRY)	54.7-77.7
TMW 66	149,799.18	325,392.21	6,656.76	1.29	6,658.05	68.00	P (DRY)	58-68
TMW 67	150,003.26	325,192.80	6,655.02	1.61	6,656.63	72.00	P	54-72
TMW 68	150,203.84	325,189.90	6,653.60	1.44	6,655.04	93.00	P	76-91
TMW 69	149,649.27	324,659.43	6,653.46	1.01	6,654.47	150.00	A	100-150
TMW 70	149,309.09	324,369.82	6,649.83	1.23	6,651.06	160.00	A	100-150

TMW 71	149,835.18	324,420.67	6,652.59	1.93	6,654.52	160.00	A	100-150
TMW 72	149,020.47	322,991.15	6,640.35	1.06	6,641.41	114.00	A	90-114
TMW 73	149,055.70	322,896.82	6,643.31	1.54	6,644.85	115.00	A	90-115
TMW 74	149,799.32	325,791.92	6,659.23	0.95	6,660.18	62.50	P	42.5-62.5
TMW 75	149,801.01	325,992.80	6,658.93	1.25	6,660.18	150.00	A	97-147
TMW 76	149,703.72	326,194.12	6,657.24	1.24	6,658.48	76.00	P (DRY)	46-76
TMW 77	149,705.25	326,394.40	6,656.93	1.35	6,658.28	30.50	P (DRY)	15.5-30.5
TMW 78	149,900.26	325,592.38	6,657.66	0.84	6,658.50	150.00	A	99-149
TMW 79	149,905.36	326,388.81	6,659.70	1.82	6,661.52	53.00	P (DRY)	48-60
TMW 80	150,100.82	325,989.30	6,660.04	1.48	6,661.52	83.00	P (DRY)	57-82
TMW 81	150,107.59	326,384.61	6,658.50	1.46	6,659.96	47.50	P (DRY)	37.5-47.5
TMW 82	150,302.15	325,987.47	6,659.56	1.08	6,660.64	150.00	A	100-150
TMW 83	150,307.20	326,379.40	6,657.86	1.01	6,658.87	65.00	P	40-65
TMW 84	150,506.27	326,376.61	6,660.36	1.50	6,661.86	147.00	A	97-147
TMW 85	149706.56	326621.24	6,657.31	1.81	6,659.12	94.00	P (DRY)	50-90
TMW 86	150,502.85	325,986.77	6,658.16	1.92	6,660.08	89.50	P	71.5-89.5
TMW 87	150,200.92	325,789.12	6,658.49	2.11	6,660.60	88.00	P	64-88
TMW 88	149,998.44	325,792.37	6,658.71	1.78	6,660.49	85.50	P (DRY)	62.5-85.5
TMW 89	150,809.67	326,137.13	6,659.33	1.42	6,660.75	160.00	A	100-150
TMW 90	148,611.25	323,958.92	6,638.27	1.55	6,639.82	55.00	P (DRY)	35-55
TMW 91	148,518.38	323,956.86	6,638.18	1.43	6,639.61	110.00	A	90-110
TMW-92	148,504.47	323,951.33	6,638.32	1.83	6,640.15	130.00	A	110-130
TMW-93	148,399.92	324,099.96	6,638.62	2.40	6,641.02	145.00	A	95-145
TMW-94	148,400.13	324,000.02	6,638.57	1.96	6,640.53	145.00	A	95-145
TMW-95	148,399.94	323,900.08	6,638.57	2.00	6,640.57	143.00	A	93-143
TMW-96	148,500.01	323,807.75	6,639.26	1.07	6,640.33	145.00	A	95-145
TMW-97	148,599.86	323,799.93	6,639.64	1.75	6,641.39	145.00	A	95-145
TMW-98	148,699.84	323,810.19	6,642.39	1.21	6,643.60	145.00	A	95-145
TMW-99	148,707.32	323,898.85	6,712.42	1.42	6,713.84	145.00	A	95-145
TMW-100	148,799.77	324,004.42	6,638.60	1.25	6,639.85	150.00	A	95-145
TMW-101	148,800.10	324,100.06	6,639.58	2.06	6,641.64	145.00	A	95-145
TMW-102	148,600.02	323,968.63	6,638.18	1.56	6,639.74	150.00	A	130-150
TMW-104	148,508.55	324,122.60	6,637.96	1.75	6,639.71	145.00	A	95-145
TMW-105	148,581.02	323,943.82	6,638.28	1.90	6,640.18	40.00	P (DRY)	20-40
TMW-111	148,800.06	324,200.03	6,642.39	1.56	6,643.95	145.00	A	95-145
TMW-112	148,700.09	324,199.95	6,641.49	1.75	6,643.24	145.00	A	95-145
TMW-113	148,600.06	324,199.95	6,641.55	1.96	6,643.51	145.00	A	95-145
TMW-115	148,499.96	324,199.79	6,640.92	2.00	6,642.92	145.00	A	95-145
MAC-1	151067.49	326075.57	6660.23	3.23	6663.46	165.00	A	115-165
MAC-2	149059.70	327566.36	6655.29	3.2	6658.49	155.00	A	105-155
MAC-3	150510.10	321513.33	6646.82	3.93	6650.75	150.00	A	107-152
MAC-4	148949.17	322282.40	6632.46	3.22	6635.68	145.00	A	95-145
MAC-5	148834.65	323313.61	6639.10	3.07	6642.17	140.00	A	90-140
MAC-6	149429.94	322701.41	6639.59	3.33	6642.92	150.00	A	100-150
MAC-7	148599.15	322911.14	6633.98	3.2	6637.18	134.00	A	94-134
DAC-2	145973.18	322955.31	6617.27	3.25	6620.52	125.00	A	75-125
DAC-4	146685.97	319513.71	6615.07	3.13	6618.20	121.00	A	71-121
	Elevations taken via submerged pressure transducer / not measured with tape.							
	Removed by Catchment Basin excavation.							
	Based on 2016 Measurements.							

When wells are sampled the pump is run to the bottom of the well and then retracted several feet and the sample collected. If the well is deeper than the length of hose on the sampling truck reel (approximately 300 feet) the pump is lowered until several wraps of hose remain on the drum and the sample is collected. Provided that the screen is not plugged the water sample will generally come from the section of screen nearest the pump. The two samples (A and B) were collected from TMW-108 during each sample event. The "A" sample is a shallow sample collected at approximately 112 feet below surface, while the "B" sample is a deep sample collected at approximately 143 feet below surface. This was done to compare uranium concentrations in TMW-108 with the slightly higher (7260 pCi/L – 7/19/17) uranium concentrations in the adjoining shallow well, TMW-109. The uranium concentrations at 112 feet in TMW-108 are lower (4810 pCi/L – 7/19/17) than they are in TMW-109.

A new water sampling unit was deployed on February 12, 2013. Images of it are provided below:



Water levels of the monitor wells are not collected within one week of pumping of either PWW-1 and/or PWW-2. This prevents the cone of depression from the pumping of these wells from interfering with the cone of depression formed by the nine (9) pump back wells.

TMWs 8, 24 and 47 were intentionally completed solely in the range of 197 to 240 feet below surface to sample the sands beneath the plume. Samples from these wells have never been used to construct natural uranium, combined radium 226/228 or total dissolved solids plume maps.

In spite of the fact that TMW 5 is not completed solely in the plume, it has been used to define it since it was the only boundary well to the east of the plume until MAC-2 was completed in Fall 2017 as part of the implementation of the characterization plan. MAC-2 now serves to define the plume to the east of the tailings impoundment. Figure-5 – Preliminary U-Natural Source Extent Map – Fall 2017 and Figure-6 – Preliminary U-Natural Concentration Map – Fall 2017 use data collected from the newly completed MAC-2 well (between the tailings impoundment and TMW-5). Data from the MAC-2 well has reduced the extent of the entire natural uranium plume East of the impoundment as depicted in Figure-6 – Preliminary U-Natural Concentration Map – Fall 2017. The size of the natural uranium plume has been further reduced in Figure-5 – Preliminary U-Natural Source Extent Map – Fall 2017 via removal of plume portions believed to be naturally sourced.

In October 2008 a water level sensor was installed in TMW-10 so water levels could be read at the surface without having to enter the excavation. A hose and pump were also installed in the well to allow it to be sampled from the surface, as well. This was done so that personnel sampling the well would not be exposed to risks associated with falling rock from the excavation's high wall that is immediately south of the well. Water level data for this well is gathered electronically and not with a water level tape, meaning that only water elevations and not depth to water readings are available.

On Monday, February 6, 2012 an attempt to sample TMW-10 was made. No water could be pumped from it. The well has either filled with sand or the pump has failed due to sand. This was documented in an email to James Webb of the Nuclear Regulatory Commission on Monday, February 6, 2010.

This well is not required to be sampled either in Source Material License SUA-1350 or in Table 5-1 NRC Standby Environmental Monitoring Summary, referenced in License Condition 11.5. Regardless, the well was sampled on a quarterly basis and the sample results were reported in the Annual Corrective Program (CAP) Review. No attempt will be made to repair this well at this time due to its proximity to the excavation high wall and the risks that the high wall poses to personnel working near it.

Well sampling records were reviewed during the September 20, 2016 Nuclear Regulatory Commission (NRC) inspection of the site. The Inspection Report concluded: *The inspectors confirmed that the licensee had sampled the wells specified in the license.*

Water levels in the perched wells are not generally collected however in 2017 levels were collected from TMW's 54, 55, 67, 83, and 87.

No water levels were collected for PWW-2 beginning in July 2015, since the well was blocked below surface; the water level probe became hung in the well and could not be removed.

A large quantity of diesel contaminated soil was excavated at the Sweetwater Uranium Project between November 2001 and March of 2003. This operation was reported to the Nuclear Regulatory Commission. Two (2) monitor wells, TMW-72 and 73 were completed immediately down gradient of the excavation and are shown on the maps in blue as Contaminated Soil Excavation Monitor Wells. TMW-72 and 73 were completed into the very top of the saturated portion of the Battle Spring Aquifer at 90 – 114 and 90 – 115 feet below surface, respectively. These wells are completed approximately ten feet above and fifteen feet into the saturated zone.

The purpose of these wells was to sample the top of the aquifer for hydrocarbons that may float on top of the aquifer surface. Since these wells were completed solely for monitoring of organics, the sampling/analysis instructions for these wells included only sampling and analyzing for organics. In several instances, however, the wells were sampled and analyzed for inorganics (Guideline 8 plus radiometrics), but since the wells were completed for hydrocarbon monitoring, the inorganic results were never checked and were filed separately from the organic results that were checked. During a review of water sample data these inorganic results were discovered and are presented in the Section entitled Diesel Excavation Monitor Wells. TMW-72, the easternmost well, exhibited elevated uranium concentrations. The current concentration (7/5/17) is 488 pCi/L (0.720 ppm). TMW-73, the westernmost well, currently exhibits a concentration (7/5/17) of 3940 pCi/L (5.82 ppm). Both wells have shown a drop in Uranium concentration in 2017.

Upon discovery of this information, the following was done:

- TMW-72 was re-sampled and the sample analyzed for inorganics on October 26, 2006.
- TMW-73 was also re-sampled on October 26, 2006 and on November 8, 2006. On November 8, 2006 the well was pumped and samples collected after 59, 450 and 932 gallons had been pumped, to determine if the uranium extended substantially beyond the well bore.
- The results of this sampling are attached in the section entitled Diesel Contaminated Soil Excavation Monitor Wells.

The sample results were reported verbally to Stephen Cohen of the NRC in two telephone conversations on February 7 and 14, 2007.

These results are puzzling for the following reasons:

- TMW-72 and 73 are approximately 106 feet apart and completed to the same depths.
- The wells exhibit vastly different uranium concentrations (488 pCi/L – TMW 72 and 3940 pCi/L – TMW 73).

The source of uranium in these wells is unclear. A number of potential sources have been considered and rejected. Based on Figure-5 – Preliminary U-Natural Source Extent Map – Fall 2017, it is believed that the source of uranium in these wells is primarily natural as is Sulfate and combined Radium-226/228.

In 2007 the following was done:

- Six (6) monitor wells (three shallow – depth 115 feet and three deep – depth 145 feet, were completed in a north-south line west of the Mill and Solvent Extraction (SX) buildings.
 - The odd numbered wells TMW-103, 107 and 109, are shallow.
 - The even numbered wells TMW-106, 108 and 110 are deep.
 - These wells are shown on the map entitled “Well Locations”. These are the wells shown in the map entitled Proposed Well Locations in the 2006 CAP Review.
 - These wells were sampled quarterly following completion. The results are included in this report.
- In August 2007 a seventh well TMW-10 was completed in the upper portion of the Battle Spring Formation in the bottom of the diesel contamination excavation. This well was completed by excavation with a trackhoe and installation of fifteen (15) inch diameter polyethylene casing surrounded by a gravel pack in the dug hole. This well was completed in this manner so that:
 - A well could be completed very near to TMW-72 and 73 and upgradient of them.
 - The well excavation could be examined and carefully sampled for any evidence of mineralization.
 - The results of the examination of the well excavation are included.
 - Sampling results for this well are included in this report.

The following table details the (July 2017) key sampling results of the wells completed in 2007 as well as TMWs 72 and 73:

Well	Depth	Natural Uranium (pCi/L)	Combined Radium-226/228 (pCi/L)
TMW-10	Shallow	Not sampled - Pump failed	
TMW-72	Shallow	488	2.8
TMW-73	Shallow	3940	31.0
TMW-103	Shallow	36.2	24.4
TMW-106	Deep	16.0	22.2
TMW-107	Shallow	8.4	5.9
TMW-108B	Deep	4700	16.3
TMW-109	Shallow	7260	17.5
TMW-110	Deep	4.1	7.1

Shallow – Completed in upper saturated fifteen (15) feet of the aquifer.

Deep – Completed in the upper saturated 45 to 50 feet of the aquifer.

Kennecott Uranium Company hired Telesto Solutions, Inc. to prepare a groundwater study for the site in 2008. This study included:

- Preparation of a Microsoft Access groundwater database. This database has been used on an ongoing basis since, for report preparation and storage and management of groundwater data.
- Study of the hydrology and ground water chemistry in the vicinity of the mill tailings impoundment and catchment basin excavation.
- Study of scatter plots of zinc, sulfate, chloride, selenium and natural uranium in site water samples.
- An oxygen and sulfur stable isotope study of TMWs 18, 59, 96, 97, 10, 72 and 73, using a sample of water from the North Camp Well as an example of naturally occurring water and a sample of sulphuric acid etched limestone chips from the Mill's acid pump room as a source of sulfate from sulphuric acid used in the mill/process.

A copy of this study was reviewed on site by John L. Saxton, Hydrogeologist, of the Nuclear Regulatory Commission (NRC) during an inspection on August 4 to 5, 2009.

The report concluded by stating the following:

An original objective of this evaluation was to identify the existence of historical chemical sources and evaluate the development of ground water chemical plumes extending down gradient of these sources. Compilation of the chemical and water level data show that a highly plausible explanation of the distribution of chemicals in the Battle Spring Aquifer near the mill is that:

1. *Tailings leakage created a large, perched water body that sourced (and may continue to source) chemicals to the underlying ground water system. The current signature of this water is that of higher sulfate concentrations and relatively low U-Nat concentrations.*
2. *Leakage from the bottom of the Catchment Basin impacted the ground water system during milling. These constituents were pulled toward the pit during pit dewatering and then reversed travel direction with the reversal in ground water gradients back toward the mill area.*

In terms of the distribution of ground water quality:

- *All ground waters in the Mill, Diesel Contaminated Soil Excavation and Tailings areas are a mixture of process and natural waters*
- *Ground water quality near the Diesel Contaminated Soil Area is more like mill process water but different than tailings process water*
- *Ground water quality to the south and east of the pumping centers is being influenced by background ground water that is being captured along with process influenced ground water*
- *Anomalies exist within the Battle Spring Aquifer ground water quality such as the extraordinarily high uranium concentration in TMW-73.*

Natural sources of uranium may influence local concentrations and may contribute to the “patchy distribution” observed in uranium concentrations. Several hypotheses are proposed in this report to explain the patch nature of impacted ground water across the area of interest. These include:

- *Slow back-diffusion of chemicals from low permeability strata with nearly stagnant ground water into more permeable strata with active ground water flow*
- *Slow and non-uniform drainage of a historical perched water body that developed around the Tailings Impoundment due to a leak that occurred in the 1980s*
- *Mobilization (dissolution) of chemicals from naturally occurring minerals due to water table*

fluctuations associated with historical mine dewatering that occurred between 1979 and 1983, but which affected site water levels into the 1990s.

While the hydrogeologic and chemical data indicate that ground water in the Diesel Contaminated Soil Excavation Area is more like process water than background ground water, and that observed concentrations in the Diesel Contaminated Soil Excavation Area could be highly influenced from the Catchment Basin, there is a weight of evidence that high uranium concentrations may be naturally occurring radioactive material. There are a number of instances in the near vicinity of the Sweetwater mine and mill, and in the Red Desert area, of naturally occurring high uranium concentrations:

- 1. The mine area of course yielded an ore body naturally high in uranium concentrations.*
- 2. The Lost Creek Schroekingerite deposits located approximately 15-20 miles northwest of the mill exhibited spotty distributions of soils and ground water with high natural uranium and sulfate concentrations.*
- 3. The North Camp Well, located about a mile southwest of the mill, has exhibited natural uranium concentrations in ground water.*
- 4. The Metallurgical Test Pit which is located approximately one mile southwest of the mill exhibited high U-Nat and sulfate.*
- 5. The Lost Creek background well data collected from wells approximately 3.5 to 6 miles north of the Sweetwater Uranium Project, especially the data from well LC31M, which is completed in the DE Horizon (upper 150 feet of the Battle Spring Formation at that location) shows uranium from 1.4 to 2.1 mg/L and sulfate from 277 to 316 mg/L.*
- 6. In the course of excavating in the vicinity of the catchment basin, a dark, organic deposit was discovered which was naturally high in uranium concentrations. This affected area was very limited in extent however other such deposits may exist scattered through the formation. Information about this material is provided in Attachment D.*

The Telesto report specifically discussed natural sources of uranium in the vicinity, stating:

On Site Natural Sources

Soil samples collected from the south side of the excavation at the Petroleum Remediation show elevated solid concentrations of radium with some uranium. The uranium is out of equilibrium with the Ra-226 suggesting that uranium has been leached from the soils leaving the less mobile radium behind. A spreadsheet with an image and sample data for the soil samples is included as Attachment C.

In the course of excavating in the vicinity of the Catchment Basin, a dark, organic deposit was discovered that had measured concentrations of uranium ranging from 21.9 to 2550 mg/Kg (uranium mass divided by total dry mass). This affected area was very limited in extent; however other such deposits may exist scattered through the formation near the mill site. These laboratory results along with a Petrographic report on this material are included in Attachment D.

Figure 27 is an equilibrium diagram of the uranium minerals expected to exist in the Battle Spring Aquifer. These natural uranium minerals, by their presence, have to influence the uranium concentration in ground water. As evidenced by the test pits at the Diesel Contaminated Soil Excavation Area, the uranium mineralization is quite heterogeneous around the site. Under natural conditions, the areas of the Battle Spring Aquifer below the water table that contain uranium mineralization (likely uraninite) probably produces concentrations similar to those determined from the background studies. However, as the water table fluctuates due to mine dewatering or water supply pumping (for example), the geochemical equilibrium of the aquifer changes. Zones that once were saturated now become unsaturated and oxygen (an electron provider) becomes available. Under such oxidized conditions, the stable uranium mineral in the system transfers from uraninite to schoepite. As the ground water table rebounds in the presence of schoepite, the solubility of uranium in the ground water is increased dramatically over that of pre-water table fluctuation. Geochemical equilibrium calculations show that schoepite in equilibrium with ground water containing dissolved oxygen, carbon dioxide, and alkalinity (from calcite) in ground water is approximately five orders of magnitude more soluble than uraninite under anaerobic conditions. That is not to say that schoepite in a natural system will produce five orders of magnitude higher U-Nat concentrations, but that it will provide a potential for higher U-Nat concentrations to be generated than concentrations in the presence of only uraninite. Thus, in a ground water system with uraninite as the stable uranium-bearing mineral phase, a fluctuation in the ground water table due to pit dewatering would result in a change in the stable uranium-bearing mineralogy such that when the ground

water table reestablishes the equilibrium concentration of uranium in ground water could increase.

During mine dewatering (1979-1983), the water table in the Diesel Contaminated Soil Excavation Area fell by 35 to 40 feet, exposing portions of the previously saturated zone to air. The resulting oxidizing conditions may have increased the solubility of naturally occurring uranium within the aquifer when the water table was depressed. After dewatering ended, the water table rose by 25 to 30 feet to its current stabilized position. As the water table rose, it is possible that the more soluble schoepite mineral could have contributed to the higher U-Nat concentrations observed.

Natural Sources in the Vicinity

A study performed in the area of the barium chloride treatment ponds (Water, Waste & Land, Inc., 1984), concluded that a fluctuating water table was responsible for mobilizing naturally occurring selenium, and this led to increased selenium concentrations in North Camp Well and other ground water wells. The fluctuation resulted from a water table rise associated with fluid disposal at the ponds, followed by a water table fall resulting from pit dewatering. Because the study was performed in 1984, it did not track water quality effects after the end of pit dewatering, which led to a subsequent rise of the water table. While the study focused on selenium, there appeared to be a fairly strong correlation between water table fluctuations and changes in uranium and sulfate concentrations, and a moderate correlation between radium concentration changes in the North Camp Well lending credence to the aforementioned mechanism for increasing uranium ground water concentrations from natural sources.

The largest known (as of 1961) group of Schroeckingerite (a hydrated fluo-carbonate-sulfate of sodium, calcium and uranium) deposits in the world is located just northwest of the Sweetwater site (Sheridan, et. al. 1961). Schroeckingerite is highly soluble in water and thus exists primarily in the unsaturated zone. It is also an evaporite and thus is most common near the ground surface, although it may be encountered throughout the entire unsaturated zone if conditions exist where it cannot be mobilized by infiltrating meteoric water. While a likely source of uranium in a ground water system that fluctuates through the unsaturated zone, it is not a likely candidate as a significant source in the ground water system on site unless some of it was encountered during placement of wells and transported to the ground water system. However, if Schroeckingerite exists or one existed up gradient of the Sweetwater site in areas where ground water is near the ground surface, its dissolution could have increased concentrations in the ground water. Up gradient ground water would have transported down gradient to Sweetwater, and thusly, this mechanism may explain some of the concentrations of U-nat and sulfate in the ground water system.

Minerals Exploration Company dug a metallurgical test pit in 1975 prior to opening the facility. The test pit is located in the southwest quarter of Section 16, T24N, R93W, approximately one-mile southwest of the Petroleum Remediation Area. The test pit was excavated to a depth of 70 feet. During excavation of the pit, the first seep of ground water occurred at a depth of 58 feet. Standard chemical analyses and radiochemical analyses of ground water collected at the test pit in 1975 were performed, and indicated naturally high levels of both sulfate (1450 mg/L) and uranium (3.15 mg/L and 13.3 mg/L, corresponding to 2130 pCi/L and 9004 pCi/L). These data indicate that mineralized portions of the Battle Spring Aquifer are located quite close to the mill and can exhibit sulfate and uranium concentrations similarly high to those being observed in TMW-73. It should be noted that this test pit and related water were collected prior to mining and milling operations at the site.

A potential in-situ uranium recovery site is in the process of being explored for its commercial potential; with the center of the exploration area located about six miles northeast of the mill and tailings area. This site is located within the same Battle Spring Draw surface drainage basin, and the exploration wells have been drilled into the same Battle Spring Aquifer that underlies the Sweetwater Uranium Facility. Exploration wells have been drilled to depths as great as about 550 feet, with four identified hydrostratigraphic horizons: 1) a shallow unconfined sandstone horizon to a depth of about 175 feet; 2) a deeper confined sandstone horizon from about 175 to 350 feet below the surface; 3) a confined mineralized horizon from about 350 to 500 feet in depth; and 4) an underlying sandstone aquifer below 500 feet.

Exploration well LC31M is of particular interest for the purpose of evaluating the presence of naturally occurring radiological material in the vicinity of the Sweetwater mill. It is located 3.5 miles due north of the tailings impoundment, and was completed in the upper unconfined sandstone, the same portion of the Battle Spring Aquifer measured by the TMW wells completed at any depth less than about 150 to 175 feet. Chemical tests of the background ground water quality measured at this well show sulfate concentrations of 277 to 316

ppm, and uranium concentrations of 1.40 to 2.10 mg/L (945 to 1422 pCi/L). While not all the exploration wells of the potential Lost Creek project show these more elevated concentrations of uranium, the data indicate spotty, naturally elevated areas of uranium mineralization in a portion of the Battle Spring Aquifer analogous to the Sweetwater site.

The Sweetwater Uranium ore body is, of course, a natural source. Overburden extracted from above the mineralized zone had measurable quantities of uranium mineralization (Shepherd Miller, Inc., 1999). This mineralization has been shown to increase uranium (and sulfate) concentrations in water bodies. During dewatering, the dewatering wells exhibited low concentrations of uranium and sulfate. After dewatering ceased and ground water started flowing through backfilled overburden material, the water collecting in the pit lake had elevated concentrations of uranium and sulfate. The leaching of naturally occurring uranium and sulfate from the backfill material exhibits that uranium and sulfate minerals exist naturally in the area outside of the ore zone. This observation of elevated uranium and sulfate outside of the ore zone and in the area of the site is also supported by Mason and Miller's (2004) reporting of uranium and high sulfate data in a well in Section 34, Township 25 North, Range 90 West.

(Please note that only the *text* from the Telesto Solutions, Inc. report has been included in this discussion. Any attachments or figures mentioned have not been included.)

The Telesto Solutions, Inc. report concludes by recommending that up to ten (10) additional monitor wells be completed west of the Mill building to better define the plume to the west. This has been superseded by the 2015 response to a July 13, 2015 Request for Additional Information (RAI) that proposes six (6) additional monitor wells and states:

In total, six new monitoring wells are recommended. The wells would target the upper Battle Spring Aquifer and not be completed in suspected perched zones. Wells are proposed to be completed over an approximate 60-foot zone extending from approximately 10 feet above the water table to approximately 50 feet below the water table, or from approximately 90 to 150 feet below ground surface.

On August 18, 2016 there was a public conference call regarding the license renewal, during which draft license conditions for the renewed license were discussed. Based on that call, a letter dated September 1, 2016 was submitted to the agency committing to "...a plan to better characterize the existing plume along its western margin (License Condition 11.3) and modify the site's CAP in accordance with characterization data to be acquired in the future." A schedule for characterizing the plume's western margin was provided in a table attached to the letter. The first step in this table was to prepare and submit for agency review a characterization plan by September 16, 2016. This characterization plan was submitted on September 15, 2016 and Kennecott Uranium Company is awaiting the results of the agency's review. The September 1, 2016 letter committing to submit a characterization plan and the characterization plan submitted on September 15, 2016 are included in Appendix 5 – Characterization Plan. Absent the results of the agency's review of the characterization plan, Kennecott Uranium Company began characterization drilling in October 2017 based on an e-mail dated June 1, 2017 from James Webb providing approval to "...proceed forward..."

The 2009 Telesto Solutions, Inc. report states that:

"The ground water level contour map (Figure 6) clearly shows that well pumping at the site has created an effective containment system, which removes chemical mass and eliminates offsite migration. These beneficial effects are being accomplished at a modest total pumping rate of about 50 gpm."

The natural ground water direction has been reversed in the mill site area, and ground water impacted by site activities appears to be captured by the pumping system. Therefore, the system is working as designed, is extracting impacted ground water, and is containing contaminated ground water.

U-natural concentrations continue to increase throughout the plume. Particularly in the area nearest the pumping wells, concentrations of U-natural are increasing. Because these higher-concentration waters are being pumped out of the system, this is desirable, as the chemical load within the aquifer can best be remediated by removing higher concentration water.

The primary pumping wells are TMW-18 and 59 which are located along the west edge of the impoundment as well as TMW-57 which is located approximately 400 feet west of the north half of the west edge of the impoundment. An examination of the 2013 Spring and Fall Piezometric Contour Maps shows that the heart of the pumpback system's cone of depression immediately west of the impoundment is located around these wells. These wells are undoubtedly pulling uraniferous water toward them increasing uranium concentrations in

proximity wells such as TMW-16 and in wells further away but still within the cone of depression, such as TMW-36.

Uranium concentrations are also increasing in TMW-36. This well is on the east edge of the tailings impoundment. Historically, before pumping began, this well would have been proximate to the location of tailings fluid leakage the identified source of ground water contamination. It is assumed that water from the tailings pond area migrated east and southeast of the tailings pond before the pumping wells were installed. We still see remnants of this contamination east of TMW-36, but in low concentrations (relative to other wells on site). It is likely that due to high salts and to uranium and other contaminants historically in the area around TMW-36, this material is currently desorbing from aquifer materials and flowing back past TMW-36, toward the pumping wells.

Based on ground water elevation data, TMW-36 is within the areas of influence of the cone of depression of the pumpback system and that groundwater should be flowing from East to West past TMW-36 toward the recovery wells.

Naturally occurring sources of uranium impact ground water at other locations and at various wells in the area.

The Geology of the Lost Creek Schroeckingerite Deposits Sweetwater County, Wyoming (Geological Survey Bulletin 1087-J) by Charles Maxwell et al reported uranium concentrations in water samples collected in bore holes ranging from 0.010 to 46 parts per million. Clearly, very high naturally occurring uranium concentrations in ground water can exist in the Red Desert. The uranium encountered in the water in this borehole may be entirely natural. The levels of uranium in ground water reported in the Survey Bulletin tended to be very spotty which is similar to the spotty nature of the uranium observed in TMWs 72 & 73.

A well, 25-92-21BA, in the northeast quarter of Section 21, Township 25 North Range 92 West, also exhibits elevated uranium activities. In a sample collected on October 5, 2010, the well water contained 1.05 mg/L uranium, 6.7 pCi/L Radium-226 and 7.5 pCi/L Radium-228. This well is upgradient of the Sweetwater Uranium Project and is depicted in the image below:



Well (25-92-21BA) – Well equipped with Bureau of Land Management (BLM) solar powered pump for livestock and wildlife watering

A test pit was excavated by Union Oil Company of California prior to the start of operations near the southeast corner of Section 16, Township 24 North, Range 93 West, that was 68 feet deep (bottom elevation was approximately 6540 feet above mean sea level). It was excavated to obtain samples of uranium mineralization above the water table. Water samples were collected from this pit that varied from 3.15 to 13.3 mg/L U_3O_8 . A bulk sample of mineralized sand above the water table was removed that contained 0.011% U_3O_8 and a bulk sample from below the water table was also removed that contained 0.033% U_3O_8 . (Recovery of Uranium from Red Desert Sandstone Ore by H_2SO_4 Leach and Solvent Extraction – Hazen Research, Inc. February 18, 1976) This test pit was approximately 0.9 miles southwest of TMW 73. Some soil samples were collected in the diesel contaminated soil excavation along the south wall closest to TMWs 72 and 73. One sample contained 43.3 milligrams per kilogram uranium. It was collected from a depth of approximately 35 feet below ground surface. Background for uranium in surface soils around the project is 2.44 milligrams per kilogram. The concentrations discovered in the above described sample are substantially above background and represent mineralized sands. Localized bodies of mineralized sands could be the source of the elevated uranium in TMWs 72 and 73. A map entitled Background Radionuclide Sample Locations – West End Diesel Contaminated Soil Excavation, showing the locations of four soil samples collected in the excavation as well as the analytical results are included in the section entitled Diesel Excavation Monitor Wells.

Other background wells in the area including DB-1 (in the Northeast corner of Section 17, Township 24 North, Range 93 West), BRE-944 (in the Northwest corner of Section 9, Township 24 North, Range 93 West), and 24-93-16BBB (Jawbone)

(in the Northeast corner of Section 16, Township 24 North, Range 93 West). Uranium concentrations for these wells are in the table below:

Well	Low (pCi/L)	High (pCi/L)
DB-1	2.3	412
OW-1		699
24-93-16BBB (Jawbone)	7.9	126
BRE-944		233

The fact that the discharge of water onto the surface at the Barium Chloride Ponds was able to mobilize naturally occurring uranium in surface soils and elevate uranium concentrations in the underlying aquifer shows that uranium mobilized by downward percolating surface water can elevate uranium concentrations in underlying aquifers. Surface water (rainfall, snowmelt) percolating through mineralized sands may be the cause of the elevated uranium concentrations in TMWs 72 & 73.

Naturally occurring high concentrations of uranium are known to exist in the area within forty (40) feet of the surface and rainwater and snow melt could leach uranium from these occurrences down into the Battle Spring Aquifer. The following is sample data for some uraniferous sands found in the northeast corner (Kminus3 area) of the Catchment Basin excavation:

Location	Sample Type	Northing	Easting	Diesel Range	Oil Range	Total Extractable	Natural Uranium (milligrams per kilogram)	Natural Uranium (picocuries per gram)	Thorium 230 (picocuries per gram)	Th230 Uncertainty	Radon Result	Radon Uncertainty
K Minus 3 NORM area	Black material	148982.97	324146.97	226	804	1000	2550	1726.35	393.0	17.0	396	9
K Minus 3 NORM area	Sand	148982.97	324146.97	211	650	834	2350	1590.95	708.0	29.0	326	6.4

This uranium, radium-226 and thorium-230 are clearly naturally occurring as per the attached report entitled “Petrographic Evaluation of Sample #CO7051289-001A”.

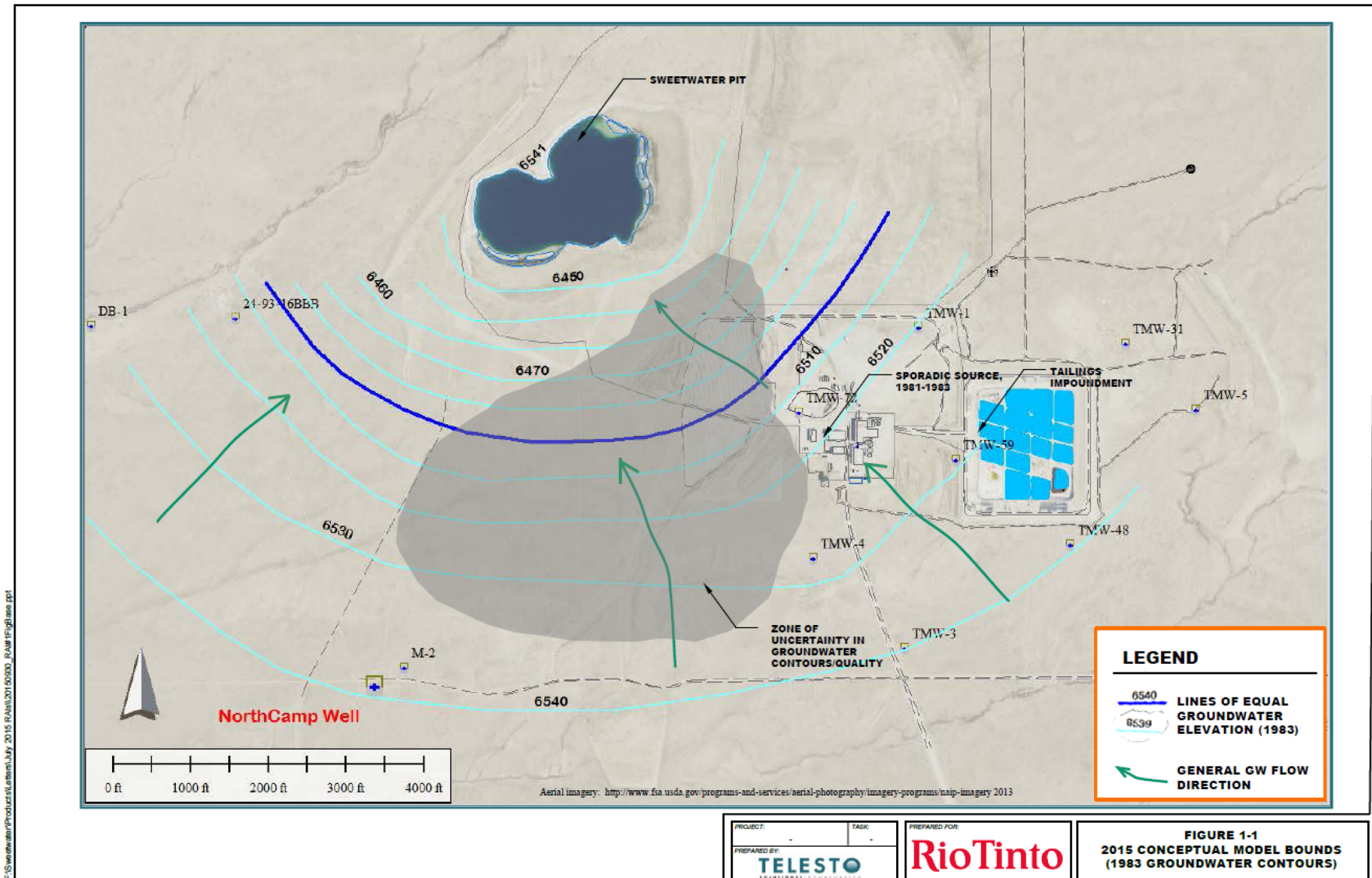
When TMW-10 was completed in the bottom of the Diesel Contaminated Soil Excavation it was completed by digging a hole into the aquifer with a trackhoe. This allowed the wall of the excavation to be carefully examined and sampled. The south wall of the excavation was photographed with a stadia rod in the image and one-half foot composite samples were collected and tested for uranium and radium-226. The results are included on the spreadsheet that follows. In addition, bulk samples above, at and below the water table were collected and analyzed. The results are included on the second spreadsheet.

This data shows very high naturally occurring radium-226 concentrations comprising what would be considered a relict or “phantom” uranium deposit. Specifically, one in which the soluble uranium had been leached and mobilized by downward percolating groundwater leaving the radium-226 and its gamma emitting decay products behind. Phenomena such as the previously described naturally occurring uranium in organic matter and this naturally occurring radium-226 would provide an explanation for elevated uranium and radium concentrations in TMWs 72, 73, 10 and other wells. Groundwater data for the seven (7) new wells (TMWs 10, 103, 106, 107, 108, 109 and 110) as well as TMW 72 and 73 were provided to Stephen Cohen at his request in three emails dated September 30, November 8 and November 20, 2007.

The issue regarding uranium in groundwater west of the Mill building was re-examined in the 2015 response to a July 13, 2015 Request for Additional Information (RAI). The response states:

There was no direct correlation between mill-influenced waters and groundwater in the concentrations of radium-226/228, natural uranium, manganese or iron due to these constituents occurring naturally in the underlying aquifer.

The response defines a zone of uncertainty regarding the Western extent of the plume as shown in the figure below:



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The response states that the purpose of these wells is to resolve whether uranium, radium and other constituents encountered in the area west of the Mill building are natural or anthropogenic. The response states:

The uncertainty regarding the western margin of the Catchment Basin release (as represented by the sulfate plume) can be reduced by the installation and testing of monitoring wells in the gray area shown in Figure 1-1. Focus is on the Catchment Basin releases conservatively defined by the sulfate plume because the Tailings Impoundment release has been well defined and effectively contained by pumping under the CAP since April 1986, and because of the relative uncertainty of plume extents to the west. The 2015 Conceptual Model provides guidance as to where the placement of monitoring wells would most likely improve the understanding of the plume extents. Recommended well locations are depicted in Figure 1-12. In total, six new monitoring wells are recommended. The wells would target the upper Battle Spring Aquifer and not be completed in suspected perched zones. Wells are proposed to be completed over an approximate 60-foot zone extending from approximately 10 feet above the water table to approximately 50 feet below the water table, or from approximately 90 to 150 feet below ground surface.

Associated with the installation of monitoring wells, we recommend that cores be cut and sampled above, at, and below the water table for the purpose of assessing the baseline geochemistry of the well completion area. The solid samples should be tested for constituent release by performing precipitation leaching tests (e.g., standard precipitation leach procedure, or meteoric water mobility procedure) and a kinetic weathering test (e.g., batch humidity cell test). The resulting data from these tests would help bolster the understanding of the potential release of naturally occurring constituents at these locations. These data would thus help to distinguish between naturally occurring and mill-influenced groundwater concentrations in the area. The naturally occurring release of constituents (e.g., U-nat and radium 226/228) has been shown to occur throughout the Battle Spring Aquifer and most recently in the area of TMW-10. In 2002, the Battle Spring Formation was sampled and extensively tested as part of the remediation activities in the DRA. The results of the testing showed the remnants of uranium decay (thorium and subsequently radium 226/228) in the soil profile above and below the water table. The samples showed little or no corresponding natural uranium, which indicates that that natural uranium was once present and that it had leached out leaving the decay products behind. By including the core sampling with the installation of monitoring wells, the processes associated with historical, natural releases of natural uranium can be detected and the source of groundwater concentrations can be discerned. For example, if sulfate is not found in the uncertain area, but natural uranium is present in the ground water, the presence of natural uranium and/or its daughter products will lend a strong argument that the dissolved uranium is naturally occurring and not from the release at the Catchment Basin.

On August 18, 2016 there was a public conference call regarding the license renewal, during which draft license conditions for the renewed license were discussed. Based on that call, a letter dated September 1, 2016 was submitted to the agency committing to “...a plan to better characterize the existing plume along its western margin (License Condition 11.3) and modify the site’s CAP in accordance with characterization data to be acquired in the future.” A schedule for characterizing the plume’s western margin was provided in a table attached to the letter. The first step in this table was to prepare and submit for agency review a characterization plan by September 16, 2016. This characterization plan was submitted on September 15, 2016 and Kennecott Uranium Company is awaiting the results of the agency’s review. The September 1, 2016 letter committing to submit a characterization plan and the characterization plan submitted on September 15, 2016 are included in Appendix 5 – Characterization Plan.

Beginning in Fall 2017, characterization activities (specifically borehole drilling and well completion) was begun. This work was commenced absent the Nuclear Regulatory Commission’s (NRC’s) complete review or full approval of the characterization plan. It was begun based upon the approval to “...proceed forward...” in the June 1, 2017 e-mail from James Webb in Appendix 5 – Characterization Plan.

The work consisted of drilling and completing nine (9) monitor wells, one (1) East of the Tailings impoundment, one (1) North of the impoundment, five (5) West of the Mill Building and two (2) Southwest of the facility (to gather downgradient water quality data) as shown in Figure 2 – 2017 Borehole Locations. These are the MAC and DAC wells shown in the figure. The figure also includes existing wells TMW’s 1 to 6, North Camp Well, OW-1, DB-1 and 24-93-16BBB. Also five (5) boreholes that were not cased were drilled to the Southwest of the facility to collect one time downgradient water samples at the five (5) locations as well as samples of the aquifer material and materials overlying the aquifer for chemical and leachability testing. These are shown in Figure 2 – 2017 Borehole Locations as well.

These monitor wells and sampling boreholes are listed on the following table entitled, Characterization Plan Well Completion Data (With Borehole Data).

**Characterization Plan Well Completion Data
(With Borehole Data)**

WELL OR BOREHOLE ID	Northing	Easting	Ground Elevation	Casing Height	Elevation of Casing Top	DRILLED TOTAL DEPTH (FT)	TOP SCREEN DEPTH (FT)	BOTTOM SCREEN DEPTH (FT)	DEPTH OF SAND (FT)	DEPTH OF BENTONITE CHIPS (FT)	DEPTH OF CEMENT GROUT (FT)
Wells											
MAC-1	151067.49	326075.57	6660.23	3.23	6663.46	165	115	165	110-165	90-110	0-90
	569522.16	2201911.33									
	N 42°03'35.746"	W 107°53'25.619"									
MAC-2	149059.70	327566.36	6655.29	3.2	6658.49	155	105	155	96-155	76-96	0-76
	567528.46	2203419.59									
	N 42°03'15.916"	W 107°53'05.867"									
MAC-3	150510.10	321513.33	6646.82	3.93	6650.75	152	107	152	101-152	81-101	0-81
	568924.05	2197355.75									
	N 42°03'30.242"	W 107°54'26.079"									
MAC-4	148949.17	322282.40	6632.46	3.22	6635.68	145	95	145	90-145	70-90	0-70
	567370.58	2198138.54									
	N 42°03'14.827"	W 107°54'15.886"									
MAC-5	148834.65	323313.61	6639.1	3.07	6642.17	140	90	140	85-140	65-85	0-65
	567265.36	2199170.40									
	N 42°03'13.670"	W 107°54'02.221"									
MAC-6	149429.94	322701.41	6639.59	3.33	6642.92	150	100	150	99-150	78-99	0-78
	567854.94	2198553.08									
	N 42°03'19.575"	W 107°54'10.334"									
MAC-7	148599.15	322911.14	6633.98	3.2	6637.18	134	94	134	90-134	68-90	0-68
	567026.33	2198770.19									
	N 42°03'11.371"	W 107°54'07.554"									
DAC-2	145973.18	322955.31	6617.27	3.25	6620.52	125	75	125	70-125	50-70	0-50
	564401.72	2198837.89									
	N 42°02'45.438"	W 107°54'06.967"									
DAC-4	146685.97	319513.71	6615.07	3.13	6618.2	121	71	121	77-121	50-77	0-50
	565083.39	2195391.16									
	N 42°02'52.473"	W 107°54'52.568"									

Boreholes

	Northing	Easting	Ground Elevation	Drilled Total Depth (FT)
DAC-1	147305.72	320664.83	6624.21	136
	565713.24	2196536.29		
	N 42°02'58.595"	W 107°54'37.317"		
DAC-3	143885.75	324333.32	6638.41	152
	562327.40	2200234.11		
	N 42°02'24.823"	W 107°53'48.710"		
DAC-5	145116.42	321704.75	6615.06	125
	563534.06	2197595.46		
	N 42°02'36.976"	W 107°54'23.536"		
DAC-6	142883.43	323037.76	6631.64	150
	561313.84	2198948.01		
	N 42°02'14.924"	W 107°54'05.874"		
DAC-7	146206.46	317279.58	6604.39	117
	564584.02	2193162.14		
	N 42°02'47.733"	W 107°55'22.168"		

Note: Locational data for each well and boreholes provided in the order shown below to the right of each well name on the table
Minerals Exploration Coordinates
Wyoming State Plane Coordinate System Zone 4903
Latitudes and Longitudes

These wells and boreholes were drilled with a sonic drilling rig. This unit advances on eight (8) inch diameter steel pipe down the borehole as it drills. This allows for near total core (sample) recovery from the surface to the total depth of the boring as well as the ability to collect water samples from the borehole without completing it as a well. It also uses no drilling mud avoiding any potential for borehole contamination.

As a result, water samples were collected in 2017 from the boreholes as the wells were being drilled either as water samples from a particular location (generally the top) in the borehole as well as pumped water samples from the completed well. All of the water samples collected from the seven (7) MAC and two (2) DAC wells are listed on the table entitled Characterization Plan Water Sampling – Calendar Year 2017 that follows. Samples pumped from cased wells are listed “Pumped Sample from Cased Well”. Samples collected while drilling the borehole prior to casing are listed as either “Single Sample” with a depth or as “Composite” with a depth range.

Also the five DAC boreholes that were not cased as wells (DACs 1, 3, 5, 6, and 7) drilled to collect samples of the aquifer material and overlying material also had water samples collected from them prior to being plugged. These samples are also listed on the following table and the sample data in spreadsheet form is included in this report. Control charts were not prepared for these preliminary samples since there were not that many collected in 2017.

**CHARACTERIZATION PLAN WATER SAMPLING
CALENDAR YEAR 2017**

WELL/BORE HOLE NUMBER	COLLECTION DATE	COLLECTIO N TIME	CHAIN OF CUSTODY SIGNATURE	DESCRIPTIVE INFORMATION	SAMPLE SOURCE/TYPE
MAC-2	October 18, 2017	10:50	RAYMOND HATCHER	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 3 GRAB SAMPLES DEPTH INTERVAL: 112'-150'
MAC-3	October 20, 2017	10:15	RAYMOND HATCHER	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 122'-150'
DAC-5	November 11, 2017	12:26	KENT BRUXVOORT	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 87'-125'
DAC-7	November 12, 2017	13:50	TIM GERKEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 72'-117'
DAC-3	November 17, 2017	2:45	CHARLIE JENSEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 112'-152'
MAC-2	November 28, 2017	11:40	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASED WELL
MAC-3	November 28, 2017	13:45	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASED WELL
MAC-4	November 28, 2017	14:00	TIM GERKEN	TWO (2) ONE GALLON JUGS	COMPOSITE OF 3 GRAB SAMPLES DEPTH INTERVAL: 103'-126'
MAC-4	November 28, 2017	14:54	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	SINGLE SAMPLE AT THE TOP OF WATER TABLE- 103'
MAC-6	November 30, 2017	14:00	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	SINGLE SAMPLE AT THE TOP OF WATER TABLE- 127'
MAC-6	December 1, 2017	8:30	TIM GERKEN	TWO (2) ONE GALLON JUGS	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 127'-150'
MAC-7	December 2, 2017	10:10	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	SINGLE SAMPLE AT THE TOP OF WATER TABLE- 100'
MAC-7	December 2, 2017	13:20	CHARLIE JENSEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 3 GRAB SAMPLES DEPTH INTERVAL: 100'-134'
MAC-1	December 6, 2017	14:00	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	SINGLE SAMPLE AT THE TOP OF WATER TABLE- 115'
MAC-1	December 7, 2017	9:15	TIM GERKEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 115'-165'
DAC-2	December 12, 2017	16:00	RAYMOND HATCHER	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 89'-125'
MAC-6	December 13, 2017	10:00	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASED WELL
DAC-4	December 14, 2017	12:30	RAYMOND HATCHER	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 82'-121'
DAC-1	December 15, 2017	17:00	RAYMOND HATCHER	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 88'-136'
DAC-6	December 17, 2017	10:00	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASED WELL
DAC-6	December 17, 2017	12:00	TIM GERKEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 4 GRAB SAMPLES DEPTH INTERVAL: 110'-150'

MAC-1	December 18, 2017	12:30	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL
MAC-7	December 18, 2017	13:02	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL
DAC-2	December 19, 2017	9:52	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL
MAC-4	December 19, 2017	13:07	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL
MAC-5	December 19, 2017	N/A	CHARLIE JENSEN	COLLECTED BY TELESTO SOLUTIONS, INC.	COMPOSITE OF 3 GRAB SAMPLES DEPTH INTERVAL: 102'-136'
DAC-4	December 20, 2017	9:53	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL
MAC-5	December 21, 2017	8:09	RAYMOND HATCHER	COLLECTED BY KENNECOTT URANIUM COMPANY	PUMPED SAMPLE FROM CASSED WELL

The wells that were completed were sealed with bentonite chips above the screen (that was gravel packed) and then cemented with neat cement. Boreholes that were not completed as wells were plugged with bentonite.

The characterization work is ongoing. DAC-2 and DAC-4 will be pump tested in 2018. Additional sampling of the nine (9) completed wells will be performed in 2018. Additional wells and/ or boreholes may be drilled in 2018. It is expected that a final report (Corrective action Program Revision Report) will be prepared for submittal to the agency by the end of August 2018.

Current Status of the Plume

Six (6) plume maps showing the plume in the vicinity of the site have been prepared for this report. There are two (2) maps each for Natural Uranium (U-Nat), Combined Radium-226/228 and Sulfate for 2017. Sulfate has been determined to better represent the plume than Total Dissolved Solids (TDS). With the exception of the pumpback wells which are sampled quarterly, the monitor wells (TMWs) are sampled semiannually. In addition, these maps include data from the newly completed MAC wells. The maps are as follows:

Figure 5 – Preliminary U-Natural Source Extent Map – Fall 2017, shows the preliminary outline of the portions of the plume attributed to site activities and not naturally occurring uranium with outlines showing areas exceeding 36 pCi/L, the Groundwater Protection Standard (GPS), and also areas between 36 and 100 pCi/L, and areas exceeding 100 pCi/L.

Figure 6 – Preliminary U-Natural Concentration Map – Fall 2017 shows the preliminary outline of natural uranium around the site in excess of the 36 pCi/L Groundwater Protection Standard (GPS) regardless of whether it is believed to be natural or related to site operations.

Figure 7 – Preliminary Sulfate Source Extent Map – Fall 2017 shows the preliminary outline of the Sulfate plume attributed to site activities and not naturally occurring sulfate.

Figure 8 – Preliminary Sulfate Concentration Map – Fall 2017, shows sulfated in the Battle Springs Aquifer in the vicinity of the Mill and tailings impoundment in excess of 400 milligrams per liter regardless of whether it is considered natural or process related.

Figure 9 – Preliminary Radium Source Extent Map – Fall 2017, shows the preliminary outline of the combined Radium-226/228 plume attributed to site activities and not to natural sources.

Figure 10 – Preliminary Radium Concentration Map – Fall 2017 shows the combined Radium-226/228 plume regardless of whether the radium is believed to be naturally occurring or process related. Elevated combined Radium-226/228 activities in the Battle Spring Aquifer in the area exist unrelated to site activities as demonstrated by the data in the table below. This data is being investigated.

Well or Borehole Name	Sample Date	Combined Radium 226/228 (pCi/L)
BRE-944 (well)	6/17/09	6.7
DAC-5 (borehole)	11/11/17	37.8
DAC-2 (well)	12/19/17	13.7
DAC-4 (well)	12/20/17	34.3

Figure 11 – Preliminary U-Natural Concentration Extent, Regional Context – Fall 2017, shows the undifferentiated uranium plume (attributable to both site operations and natural sources) in a regional context showing its relationship to the outline of uranium mineralization to the West as well as to the downgradient (DAC) wells and boreholes and existing wells such as OW-1, North Camp Well, 24-93-16BBB, and DB-1 with elevated uranium concentrations.

The sonic drilling method allowed for the collection of comprehensive samples of the Battle Spring Aquifer and the overlying materials. These samples were logged with a scintillometer (a collimated Ludlum Model 44-10 gamma radiation detector connected to a Ludlum Model 2350-1 data logger) for gamma. Selected material was sent to a laboratory for analysis. In part, some of this testing was performed to determine if materials overlying the saturated zone could serve as a source of uranium in the aquifer via leaching by meteoric waters. This data is included in the section entitled Soil Sampling Data. This data is being evaluated and is included for purposes of completeness, and based on discussions with James Webb on February 8, 2018. Samples of overlying and aquifer materials were collected from the MAC well borings prior to being completed as wells, the two DAC well borings prior to being completed as wells and the DAC borings that were not completed as wells.

The samples were tested by ACZ Laboratories from sections of core collected from the boreholes using a sonic drill rig. Core sections were samples from intervals both above and below the water table. For DAC-4, 3 samples were collected; one from above the water table and two from below the water table. Solid soil chemistry was tested using EPA Method 3050, Acid Digestion of Soils. Water chemistry was tested from the soil core sections using EPA Method 1312, Synthetic Precipitation Leaching Procedure.

Following drilling and sampling the DAC borings not completed as wells were plugged with bentonite.

The preliminary plume areas, for the plumes both undifferentiated (attributable to site operations and natural sources) and differentiated (attributable solely to site operations) around the tailings impoundment and former catchment basin, are as follows:

Contaminant	2017 Estimated Plume Area Attributed to Site Operations and Natural Sources (acres)	2017 Estimated Plume Area Attributed Solely to Site Operations (acres)
Natural Uranium	51.5	16.1
Combined Radium 226/228	91.1	62.3
Sulfate	90.7	27.6

There remains judgement in interpreting the groundwater data to generate the above estimates

The ultimate plume area will depend on potential further characterization and sampling that will be performed in the future, primarily in the area west of the currently defined plume, and on the conclusions presented in the Corrective Action Program Revision Report planned for submission in August 2018. On August 18, 2016 there was a public conference call regarding the license renewal, during which draft license conditions for the renewed license were discussed. Based on that call, a letter dated September 1, 2016 was submitted to the agency committing to “...a plan to better characterize the existing plume along its western margin (License Condition 11.3) and modify the site’s CAP in accordance with characterization data to be acquired in the future.” A schedule for characterizing the plume’s western margin was provided in a table attached to the letter. The first step in this table was to prepare and submit for agency review a characterization plan by September 16, 2016. This characterization plan was submitted on September 15, 2016. Absent complete agency review of the Characterization Plan, Kennecott Uranium Company commenced characterization work in the Fall of 2017 as described in this report based upon staff’s approval to “...proceed forward...” in James Webb’s June 1, 2017 email included in Appendix 5 – Characterization Plan. The September 15, 2016 letter committing to submit a characterization plan, the characterization plan submitted on September 15, 2016, and the June 1, 2017 e-mail from James Webb are included in Appendix 5 – Characterization Plan.

Elevation Data

In November 1996, as part of the field work program to develop a final design for tailings management for the Sweetwater

Uranium Project, eighteen control points (section corners, quarter corners, etc.) covering a nine square mile area around the mill were surveyed with a global positioning system. The original elevation of the southeast corner of Section 15, Township 24 North, Range 93 West was found to be wrong. Please see the memo submitted as Appendix A of the 1996 Corrective Action Program (CAP) Review from Kent Bruxvoort of Shepherd Miller, Inc. This point was used to establish ground surface and casing elevations for the tailings monitor wells (TMW) around the tailings impoundment.

As a result of this discovery, all of the casing elevations for all of the tailings monitor wells and potable water wells (PWW) were resurveyed by Inberg-Miller Engineers, Inc. of Riverton, Wyoming. A mark was filed into the top of the casing in each well and the casing elevation was surveyed at that mark. All water level measurements have been taken from that mark as well, to insure accuracy and consistency of results. In addition, the casing heights of each well were measured so accurate ground elevations for each well could be obtained. These elevations are listed in Table 2.3 of "Evaluation of Aquifer Test Data", submitted as Appendix B of the 1996 Corrective Action Program (CAP) Review. The correction of the casing heights has affected the piezometric contours for the aquifer.

As work has been performed in the Catchment Basin excavation area (fill added to enhance compaction, etc.) and well repairs have been completed, wells have been resurveyed as required.

All wells and borings related to the Fall 2017 characterization work were surveyed by Lenhart, Worthington and Carpenter on January 4, 2018.

Pumpback Volumes and Impoundment Evaporative Capacity

The evaporative capacity of the tailings impoundment currently stands at a minimum of 29.46 million gallons per year. Please refer to the table below:

Tailings Impoundment Evaporation Capacity

Lagoon Designation	Area		Evaporation at Maximum Pan Rate (Gallons per year)	Evaporation at Calculated Lake Evaporation Rate (Gallons per year)
	Square Feet	Acres		
1-O	81,798.56	1.88	3,095,164.46	2,166,615.13
1-W	99,531.68	2.28	3,766,165.55	2,636,315.89
1-E	100,230.07	2.30	3,792,591.84	2,654,814.29
2-W	72,017.00	1.65	2,725,041.36	1,907,528.95
2-E	77,418.51	1.78	2,929,428.35	2,050,599.85
3-W	68,249.06	1.57	2,582,466.80	1,807,726.76
3-E	53,191.59	1.22	2,012,709.26	1,408,896.48
4-W	58,982.00	1.35	2,231,811.79	1,562,268.25
4-E	78,433.96	1.80	2,967,851.83	2,077,496.28
5-W	58,665.02	1.35	2,219,817.63	1,553,872.34
5-E	57,500.41	1.32	2,175,750.11	1,523,025.08
6-W	60,862.93	1.40	2,302,984.04	1,612,088.83
6-E	68,160.91	1.56	2,579,131.30	1,805,391.91
8-E	112,197.27	2.58	4,245,417.07	2,971,791.95
9-W	65,113.85	1.49	2,463,834.02	1,724,683.81
Total:	1,112,352.82	25.53	42,090,165.41	29,463,115.79

The above table shows the amount of fluid that can be evaporated from the existing tailings impoundment lagoons based upon their area and a maximum evaporation rate (pan evaporation rate) of 60.7 inches per year and a minimum evaporation rate (lake evaporation rate) of 0.7 times the pan rate. The pan evaporation rate is from the site's Revised Environmental Report dated August 1994. Determination of a lake evaporation at 70 percent of pan evaporation is based on Seller, 1965. Even at the minimum calculated evaporation rate the currently lined lagoons are more than adequate to evaporate the current maximum pumpback volume of 25 million gallons per year. Thus the tailings impoundment in its current configuration can evaporate the currently generated pumpback volumes.

This issue was discussed with James Webb in telephone conversations on Thursday, September 27 and Monday, October 1, 2012. He suggested submitting a letter regarding the situation. One was submitted dated October 10, 2012. A reply dated November 15, 2012 was received. Kennecott Uranium Company prepared a Safety and Environmental Evaluation (SEE) to increase the pumpback limits in 2013 from 25 million to 27 million gallons per year.

The 27 million gallon per year limit was considered appropriate given the calculated evaporative capacity of the impoundment. This change was made by SEE #23 – Establishment of Annual Pumpback Volume Based upon Tailings Impoundment Evaporative Capacity. In 2016 a total of 26,811,900 gallons were pumped into the impoundment, below the limit of 27 million gallons established by Safety and Environmental Evaluation #23 (SEE-23).

It is currently planned for 2018 to operate the pumpback wells at the following approximate flow rates:

WELL #	Gallons per Minute
TMW-96	3.0
TMW-97	4.0
TMW-59	7.5
TMW-75	3.5
TMW-17	9.0
TMW-7	3.0
TMW-57	3.5
TMW-18	10.0
TMW-58	<u>7.5</u>
Total:	51.0

This is subject to change based upon further results from the characterization work, and the Corrective Action Program (CAP) Revision report planned for submission by August 2018.

TMWs 59 and 18 have the highest Total Dissolved Solids concentrations (2020 ppm – July 31, 2017, and 1990 ppm – July 31, 2017 so they will be operated at the highest flow rates with the other less contaminated wells pumped at lower rates so that the total pumped volume does not exceed 27 million gallons, as specified in Safety and Environmental Evaluation (SEE) #23.

Since execution of Safety and Environmental Evaluation (SEE) #23 on May 31, 2013, pumpback rates were increased and 26,747,640 gallons were pumped into the impoundment in 2017. Observations of the impoundment show that to date there have been no problems in evaporating the additional volume.

The following groundwater contour maps are included with this report:

- *Figure 3 – 2017 Spring Groundwater Surface Map* shows the groundwater contours around the site tailings impoundment and Catchment Basin in spring 2017.
- *Figure 4 – 2017 Fall Groundwater Surface Map* shows the groundwater contours around the tailings impoundment and Catchment Basin in fall 2017.

Five (5) foot contours are in dark blue while one (1) foot contours are in light blue on both maps. These maps show the extent of the cone of depression created by the pumpback wells. These maps were created using groundwater elevation data from any aquifer monitor wells in existence at the time data was collected, regardless of the completion depth, since the piezometric surface is believed to be a property of the aquifer as a whole.

No water levels were collected within one (1) week of operation of PWW-1 and/or PWW-2 so that the operation of these wells would not interfere with the depiction of the potentiometric surface created by the operation of the pumpback wells.

The Spring 2017 Map is based solely on monitor wells in existence in the Spring of 2017 so it does not include data from any MAC or DAC wells since they were only completed in the second half of 2017.

The Fall 2017 Map was created using data collected in early Fall. These groundwater contour maps, in addition to using data from the monitor wells shown on the map, that are measured monthly, also use water level measurements from regional wells beyond the maps borders to provide regional context to the contouring program. These regional wells are measured only semi-annually (late Spring and Fall of each year) in relation to the site's State of Wyoming permit to Mine. As such, the map only uses early Fall water level data in its preparation so that the water levels used reflect a short duration of time. Only two (2) characterization plan wells were completed anywhere near close in time to when the regional wells were measured (those being MAC-2 and 3) so only water elevations from these two (2) characterization plan wells were used in the preparation of the Fall 2017 map. Water levels in all nine (9) MAC and DAC wells are measured monthly. Future maps will incorporate water level data from all of them.

Included below is a figure from the 2015 response to a July 13, 2015 Request for Additional Information (RAI) that depicts the Fall 2015 groundwater surface: It shows the approximate capture zones of the groundwater sink created by the pumpback system and the one created by the evaporative sink of the pit lake.

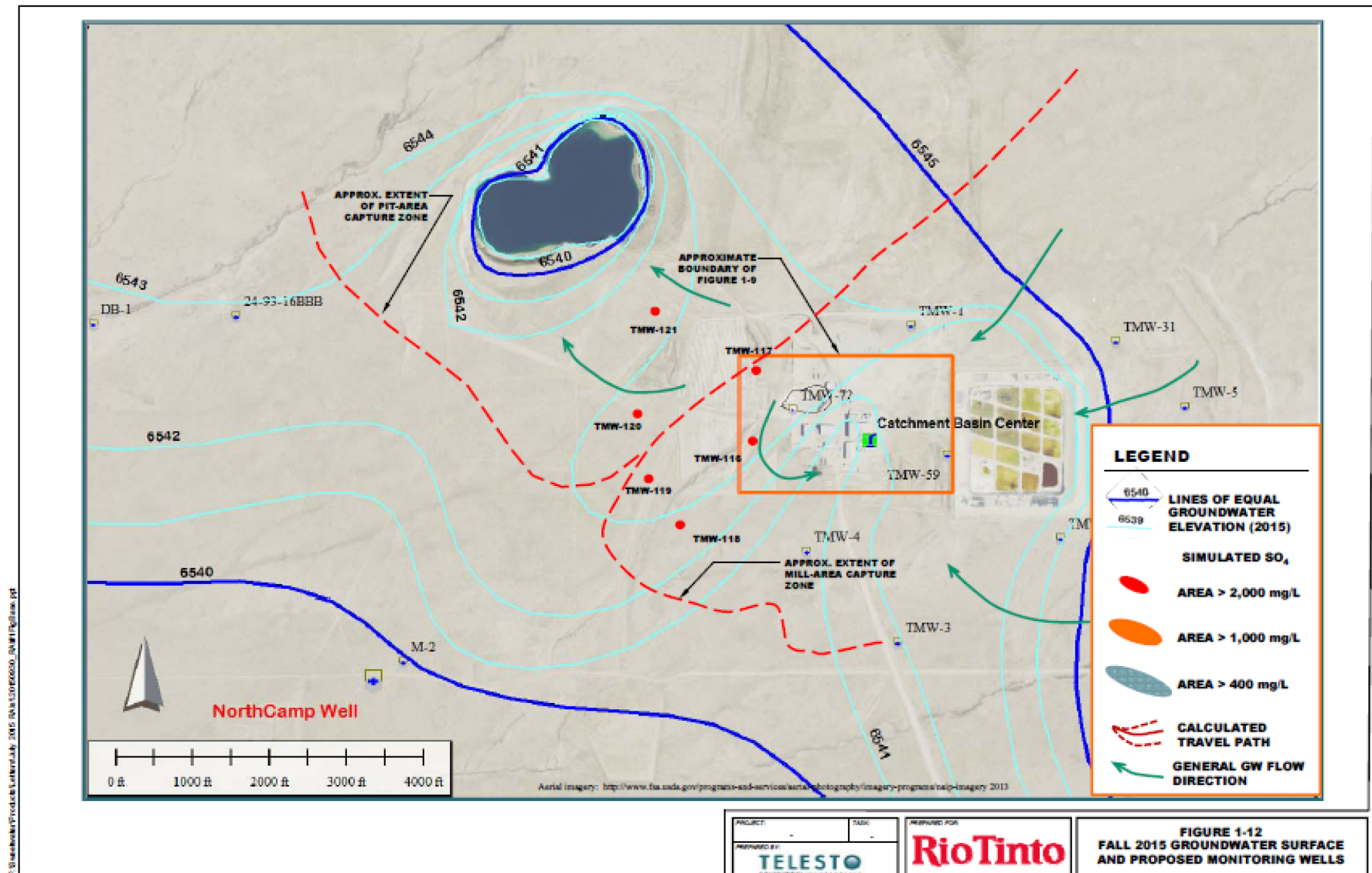


Figure 3 – 2017 Spring Groundwater Surface and Figure 4 – 2017 Fall Groundwater Surface also depict the groundwater divide between the Corrective Action Program (CAP) cone of depression and that of the evaporative sink of the reclaimed Sweetwater Pit. The divide depicted on the two (2) 2017 maps is roughly in the same location as the divide shown in the submittal map on the preceding page.

Salts/Contaminants Removed from the Battle Spring Aquifer

Table 2 – Mass of Salts and Other Constituents Removed from the Perched and Battle Spring Aquifers and Pumped Back into the Tailings Cell lists the cumulative quantities of salts (contaminants) pumped back from the Battle Spring Aquifer into the tailings cell via the pumpback system. Charts showing the quantities of salts returned to the tailings cell are also included for each of the wells pumped back into the impoundment in 2017.

TMWs 90 and 105 were removed during the course of the excavation of the contaminated soils around the Catchment Basin in 2006. They have no longer been present since 2006.

Tailings Impoundment Water Evaporation System

The transfer pump remained in operation as needed during 2017 when the impoundment was not frozen, to pump fluid from the free pool in the southeast corner into the lined ponds.

Operation of the evaporative drip system, which allows tailings fluid to drip down exposed portions of the liner on the western embankment of the impoundment, was suspended in 2000. Two sections of liner used as surfaces on which tailings fluid was allowed to drip were damaged by high winds by April 10, 2000, requiring the operation of the drip system to be terminated.

Extensive regrading of the tailings was performed during 2008. Regraded areas were bermed and lined to create shallow ponds on the tailings surface to enhance evaporation and prevent blowing tailings. Lagoons 2-W and 4-W were lined in the summer of 2009. Included with this report are the following maps showing the changes to the impoundment over time:

- *Existing Impoundment Configuration – January 2006*
This map shows the distribution of the tailings and evaporation ponds prior to commencement of the Catchment Basin excavation.
- *Existing Contours – October 2007*
This map shows the distribution of the tailings and evaporation ponds after addition of the 233,268 cubic yards of material removed from the Catchment Basin excavation in 2006 and 2007.
- *Existing Contours – December 29, 2008*
This map shows the distribution of the tailings and evaporation ponds after the 2008 tailings regrading and lagoon construction effort.
- *Tailings Area Survey – July 2009*
This map shows the impoundment and lagoons as of July 2009
- *Impoundment – December 2009*
This map shows the water covered areas as of December 2009. This map shows the configuration of the impoundment as it is at present.
 - The various plume and piezometric contour maps show the water covered areas of the impoundment as of August 3, 2017 shaded in blue.
- In addition, Google Earth images of the impoundment for July 21, 1994, July 10, 2006, July 4, 2009, and June 8, 2014 are provided.
- A composite image of the impoundment taken by a drone in August 2017 is also included.

In the case of Lagoon 8-W and Lagoon 7-W, these are composed of wet materials with intermittent standing fluid. These non-water covered areas will either be flooded or sprayed with tailings fluid as required during the non-freezing months so that they will be kept wet to minimize blowing tailings.

Tailings Impoundment Fluid Level

The fluid level on November 2, 2017 was 6610.83 feet above MSL. This elevation is taken in the deepest pool in the impoundment's southeast corner. The fluid level at this location was within one (1) foot of the level of 6610.83 feet above MSL on November 1, 2016. The control point used to measure these elevations was surveyed by Worthington, Lenhart and

Carpenter on August 2, 2017 for quality assurance/control purposes.

Current water covered area (pool area plus lagoons) is estimated to be approximately 1,062,429 square feet (2017 Method 115 Report). The water covered area has decreased slightly from the 2016 area (1,011,335 square feet). This area is based on a ground survey of the impoundment conducted by Worthington, Lenhart and Carpenter completed on August 3, 2017.

At no time did fluids rise to within five (5) feet of the top of the repaired liner.

Substantial repairs were made to the tailings impoundment liner in 2007 and 2008 along the interiors of the northern and eastern embankments. The tailings were regraded in 2008 and thirteen (13) lined evaporation ponds were constructed on top of the regraded tailings. Two (2) additional ponds were lined in the summer of 2009.

The impoundment and associated work was described in the Telesto Solutions, Inc. July 13, 2017 report entitled “2017 Inspection of Tailings Impoundment Liner”, as follows:

Ongoing maintenance of the impoundment allows Kennecott Uranium Company to meet its operations objectives. Specific maintenance completed or ongoing during 2016-2017 includes 1) repair of the liner to keep it functional within five feet of the tailings; 2) ongoing maintenance of the water management system including activities such as pump repair and/or replacement; 3) maintenance of the sandbag weights along the west and south embankments to limit liner buffeting under windy conditions; and 4) maintenance and repair of the outer surfaces of the embankments against erosion effects.

Kennecott Uranium Company continues to effectively manage the tailings impoundment through as-needed maintenance of the liner within five vertical feet of the tailings or tailings fluid and keeping the tailings covered with filled evaporation lagoons. Potential for fluid to escape through the remaining Hypalon® liner is limited, potential for windblown tailings is decreased, potential for radon emissions is decreased, the surface of the tailings has been lowered to a level everywhere below the surrounding native ground surface.

Tailings consolidation throughout the impoundment is promoted, and evaporation over a large surface area within the impoundment is enhanced.

The inspection of the diversion channel documented in the July 13, 2017 report entitled “2017 Inspection of Diversion Channel” concluded that:

Little evidence of change in the channel’s overall form has been observed from the May 2016 inspection to the June 2, 2017 inspection, either in terms of vertical adjustment of the channel bed or in terms of lateral movement of the channel’s banks. The diversion channel’s capacity has not decreased measurably since its construction, and the channel is expected to continue to operate as designed.

The July 13, 2017 report entitled “2016 Inspection of Tailings Impoundment Embankments” states;

In summary, embankment conditions were noted to be of a generally acceptable nature; no conditions of concern were noted in the June 2017 observations. No settlement of the crest was observed. No erosional rilling was observed that would extend to the crest. The extent of rilling should continue to be monitored and repaired at any point at which a rill may extend to the crest. Water levels continue to be maintained at a level below the surrounding ground surface.

The report also noted that, “Consequently, there is almost no potential for tailings fluid to escape through the embankments, even in the event of a hypothetical, catastrophic failure of an embankment.”

The October 3, 2016 report of the September 20, 2016 Nuclear Regulatory Commission (NRC) inspection of the site discussed the impoundment stating:

The inspectors observed that the tailings impoundment embankments were in generally good condition. The inspectors did not identify any leaks or significant erosion during site tours, and;

The ponds were found to be in good condition, and none of the ponds appeared to be overfilled. The pump-back system was in operation, collecting seepage and transferring the liquid to the evaporation ponds.

It concluded by stating:

The licensee continued to inspect and maintain the tailings impoundment in accordance with license requirements. The tailings impoundment appeared to be in good condition with no observable leaks or erosion.

Copies of Telesto Solution's 2017 inspection reports of the impoundment (2017 Inspection of Tailings Diversion Channel, Embankments and Impoundment Liner) are included in Appendices 2, 3 and 4.

The substantial regrading of the tailings and material excavated from the Catchment Basin area that was performed in 2007 and 2008 has resulted in a more organized and manageable impoundment.

Battle Spring Aquifer Water Levels

Recovery of the cone of depression caused by dewatering operations around the Sweetwater Pit was complete by 1998. The current water level in the pit stands at 6538.07 feet above MSL on October 15, 2017, a drop of 0.13 feet from a level of 6538.20 feet above MSL on October 2, 2016. Please see attached chart entitled *Sweetwater Pit Water Levels*. Kennecott Uranium Company believes that water levels in the pit have reached "steady state" essentially since 1998.

In September 2015 the water levels in the existing dewatering (DW), piezometer and research and development (RDW) wells around the pit lake were measured and the water level elevations were compared to that of the potentiometric surface elevation of the pit lake. The data is shown in the table below:

Wells Measured in Fall 2015 to Verify Pit Lake Evaporative Sink							
Well Number	Piezometer	Northing	Easting	Ground Elevation	Casing Height (Feet)	Collar Elevation	Water Elevation 9/15
DW 1		151,185	321,415	6656.40	0.60	6657.00	6541.85
DW 2		151,487	321,588	6660.12	1.51	6661.63	6542.29
DW 3		151,912	321,667	6660.53	1.37	6661.90	6542.74
DW 4		152,397	321,689	6666.69	1.45	6668.14	6543.10
DW 5		152,738	321,616	6671.68	0.77	6672.45	6543.00
DW 7		153,074	320,905	6669.93	0.45	6670.38	6542.54
DW 8		153,138	320,549	6668.37	0.75	6669.12	6543.22
DW 9		153,080	320,210	6667.87	0.39	6668.26	6543.79
DW 17		150,793	321,136	6651.43	0.76	6652.19	6541.77
DW 20		152,282	319,570	6655.34	0.36	6655.70	6541.99
DW 21		152,448	319,072	6654.50	0.45	6654.95	6541.83
DW 22		152,091	318,769	6647.24	1.19	6648.43	6542.92
DW 24		151,250	318,559	6648.18	0.87	6649.05	6540.84
DW 25		150,890	318,496	6643.85	0.69	6644.54	6541.30
DW 31		150,299	318,524	6641.49	1.10	6642.59	6541.96
DW 32		150,015	318,981	6640.16	1.18	6641.34	6542.34
DW 33		149,831	319,444	6634.53	1.35	6635.88	6541.25
DW 34		149,629	319,944	6635.29	1.83	6637.12	6542.73
DW 39		150,464	320,524	6645.63	1.12	6646.75	6542.06
DW 40		150,064	320,355	6640.83	1.39	6642.22	6542.54
PH 3	P-1	152,195	321,985	6664.18	1.09	6665.27	6542.71
PH 5	P-1	153,184	320,821	6669.82	0.79	6670.61	6542.63
PH 6	P-1	153,379	320,852	6673.41	0.94	6674.35	6543.83
PH 8	P-1	151,465	318,609	6644.34	0.84	6645.18	6541.15
RDW 1		151,601	322,138	6699.16	1.04	6700.20	6544.69
RDW 8		152,433	319,248	6662.49	1.70	6664.66	6541.83
UNK-2		152,191	318,769	6648.62		6651.67	6541.03
UNK-3		151,250	318,459	6648.36	6.14	6654.50	6542.03

The pit lake continues to be an evaporative sink.

Beginning in January 2009 a section of slotted pipe was installed in a hole in the sand along the shore of the pit lake. Please see the following image:



The top of the pipe section was surveyed by Robert Jack Smith and Associates on Monday, January 5, 2009. The elevation of the top of the pipe section was 6542.68 feet above mean sea level. Pit lake elevations are now taken by measuring down from the pipe section top to the top of the water inside of it. This is a superior system to the use of a rebar since it is not susceptible to ice damage and there is no uncertainty due to wave action.

The top of the pipe section is surveyed annually for quality assurance/quality control purposes. A table of the survey pipe elevations is included below:

Date	Casing Elevation (feet above mean sea level)
January 5, 2009	6542.68
December 15, 2009	6542.99
August 9, 2010	6542.72
August 8, 2011	6542.80
January 16, 2012	6542.99
July 23, 2012	6543.02
July 26, 2013	6543.08
July 28, 2014	6543.08
July 30, 2015	6543.36
July 28, 2016	6542.97
August 3, 2017	6542.94

The reclaimed pit remains as a lake and evaporative sink. Water loss via evaporation from the pit lake surface creates a slight permanent cone of depression around the pit, meaning that the potentiometric surface of the aquifer in that area will never return to pre-mining levels.

Groundwater Direction and Velocity / Effectiveness of the Pumpback System

The regional ground water flow is to the southwest (the center of the Great Divide Basin). Localized flows in the Battle Spring Aquifer immediately surrounding the Sweetwater Pit are toward the pit since it is an evaporative sink as described in the section above.

Localized groundwater flows in the vicinity of the tailings impoundment and catchment basin pumpback wells are toward TMWs 7, 17, 18, 57, 58, 59, 75, 96 and 97 since they showed decreased water levels as they are being actively pumped. The greatest decreases in water level are in the areas of TMW-18 and TMW-59. This is logical since TMW-18 yields a pumpback rate of 11.87 gpm and TMW-59 yields a pumpback rate of 8.05 gpm. These wells are pumping at the highest rates. The spreadsheet *Groundwater Elevations 11/96 to Present* is included in Appendix 1.

The groundwater in the immediate vicinity of the tailings impoundment and Catchment Basin is flowing toward TMWs 7, 17, 18, 57, 58, 59, 75, 96 and 97, as these wells have overcome regional groundwater flows toward the southwest due to pumping in 2016. The piezometric contour maps show the potentiometric surface of the Battle Spring Aquifer around the tailings impoundment and Catchment Basin in spring and fall 2017. The cone of depression created by the pumpback wells encompasses the existing plume. The groundwater contour maps for spring and fall 2017 clearly show a cone of depression by the western edge of the tailings impoundment and around the Solvent Extraction (SX) building by the Catchment Basin pumpback wells TMW 96 and TMW 97. The maps also show the groundwater divide between the Corrective Action Program (CAP cone of depression and the one around the Sweetwater Pit that is induced by evaporation.

The Telesto Solutions, Inc. report entitled “**Final Ground Plume Interpretation**” dated February 2009, states:

The ground water level contour map (Figure 6) clearly shows that well pumping at the site has created an effective containment system, which removes chemical mass and eliminates offsite migration. These beneficial effects are being accomplished at a modest total pumping rate of about 50 gpm.

Clearly, ground water within the impacted area is flowing in toward the pumpback wells. The report continues by stating:

The water level contours and flow directions on Figure 6 clearly show that the ground water pumping wells are providing complete containment of any water that could be impacted by the Tailings Impoundment, or facilities in the Catchment Basin area. Flow within the Battle Spring Aquifer converges towards the pumping centers and there is no potential for off-site excursion of potentially impacted ground water or wells that show elevated concentrations of U-Nat or Ra 226-228.

This report was updated in 2014 as part of the license renewal process and concluded:

The natural ground water direction has been reversed in the mill site area, and ground water impacted by site activities appears to be captured by the pumping system. Therefore, the system is working as designed, is extracting impacted ground water, and is containing contaminated ground water.

The above conclusions were updated again as part of the response to a July 13, 2015 Request for Additional Information (RAI). The response states:

Based on the high certainty in the analysis, we can conclude that:

- *The current extent of the combined radium-226/228 plume from the Catchment Basin and Tailings Impoundment releases are contained within the Mill-area capture zone and due to the chemical nature of radium, have not traveled as far as the sulfate plume.*
- *The current extent of the natural uranium plume from the Catchment Basin and Tailings Impoundment releases are contained within the Mill area capture zone. Due to the chemical nature of uranium in oxidized conditions, uranium released from the Catchment Basin may have traveled in a similar manner to the sulfate plume. Uranium released from the Tailings Impoundment has been contained by CAP pumping.*
- *Ongoing exceedances of the manganese and iron GPS are in wells that are within the Mill-area capture zone and are thus contained. As described in Telesto (2009), the exceedances of constituent concentrations above groundwater protection standards are expected to continue, but the plume will remain wholly contained within the Mill-area capture zone via pumping under the CAP.*

Ground water in the vicinity of the mill and tailings impoundment flows toward the pumpback wells.

Progress toward Attaining Groundwater Protection Standards

The pumping of aquifer wells TMW-7, 17, 18, 58, 59 and 75 at the toe, north and west of the tails cell, continue to intercept any contaminated water coming through from beneath the tailings impoundment. The capture of contaminated water at the toe of the tails cell will prevent any constituents that may be present from migrating away from the impoundment. A pump was installed in TMW-57 in May 2001. A new well, TMW-7, was completed on August 18, 2003. A pump was installed and started in it on December 1, 2003.

A portion of the excursion as defined by Combined Radium-226/228 and Sulfate lies beneath a portion of the tailings impoundment, as seen on the respective contour maps. This makes sense given the fact that the fluids leaked from the impoundment’s northeast corner and flowed to the west under the impoundment to the sink created by the then mostly dewatered Sweetwater Pit. The impacted fluids beneath the tailings impoundment can only be collected from wells at or near the edge of the impoundment since wells cannot be drilled through the bottom of the lined impoundment. This limitation greatly hinders removal of impacted fluids from the aquifer. The most impacted fluids that lie beneath the impoundment as shown on Figure 7 – Preliminary Sulfate Source Extent Map – Fall 2017 that depicts sulfate in the Battle Spring aquifer in excess of 400 milligrams per liter believed to be related to site operations. The pumpback wells with the highest TDS, TMWs-18 and 59 (1800 ppm and 2020 ppm respectively on July 31, 2017) lie immediately against the western embankment. Being forced to recover impacted fluids from the edge of the plume and being unable to recover fluids from the area of highest concentration, the plume’s core beneath the center of the tailings impoundment prolongs any

attempt to attain groundwater protection standards (GPS).

The following italicized text (February 7, 2004) are from a consultant's report prepared by Kent Bruxvoort Consulting dated February 7, 2004.

“The CAP has been successful in containing and reducing quantities and concentrations of hazardous constituents beneath the impoundment. As of the fourth quarter of 2002, about 248.4 million gallons of groundwater had been pumped back into the impoundment. A cumulative net amount of 1,323,500 kg of contaminants has been pumped back, representing 58 percent of the estimated total amount released. In calculating this net amount, background quantities of constituents, as defined by concentrations in the background monitoring well, TMW-5, were subtracted from the total mass of constituents pumped. The following plot compares the cumulative net mass of contaminants removed to the cumulative amount of released contaminants remaining in the aquifer. The average pumpback volume from 1993 through 2002 was 93,000 kg/year.” (February 7, 2004)

The above citation is from the February 7, 2004 report and reflects 2004 information. The mass of salts recovered for 2016 also includes salts recovered from the plume around the Catchment Basin. The volume of fluids leaked from the Catchment Basin and the mass of salts associated with that fluid is unknown. As such, no adjustment was made to the mass of constituents remaining to reflect constituents leaked from the Catchment Basin.

The pumpback program was also reviewed by Telesto Solutions, Inc. in their report, **“Final Groundwater Plume Interpretation”** dated February 2009. In it they stated:

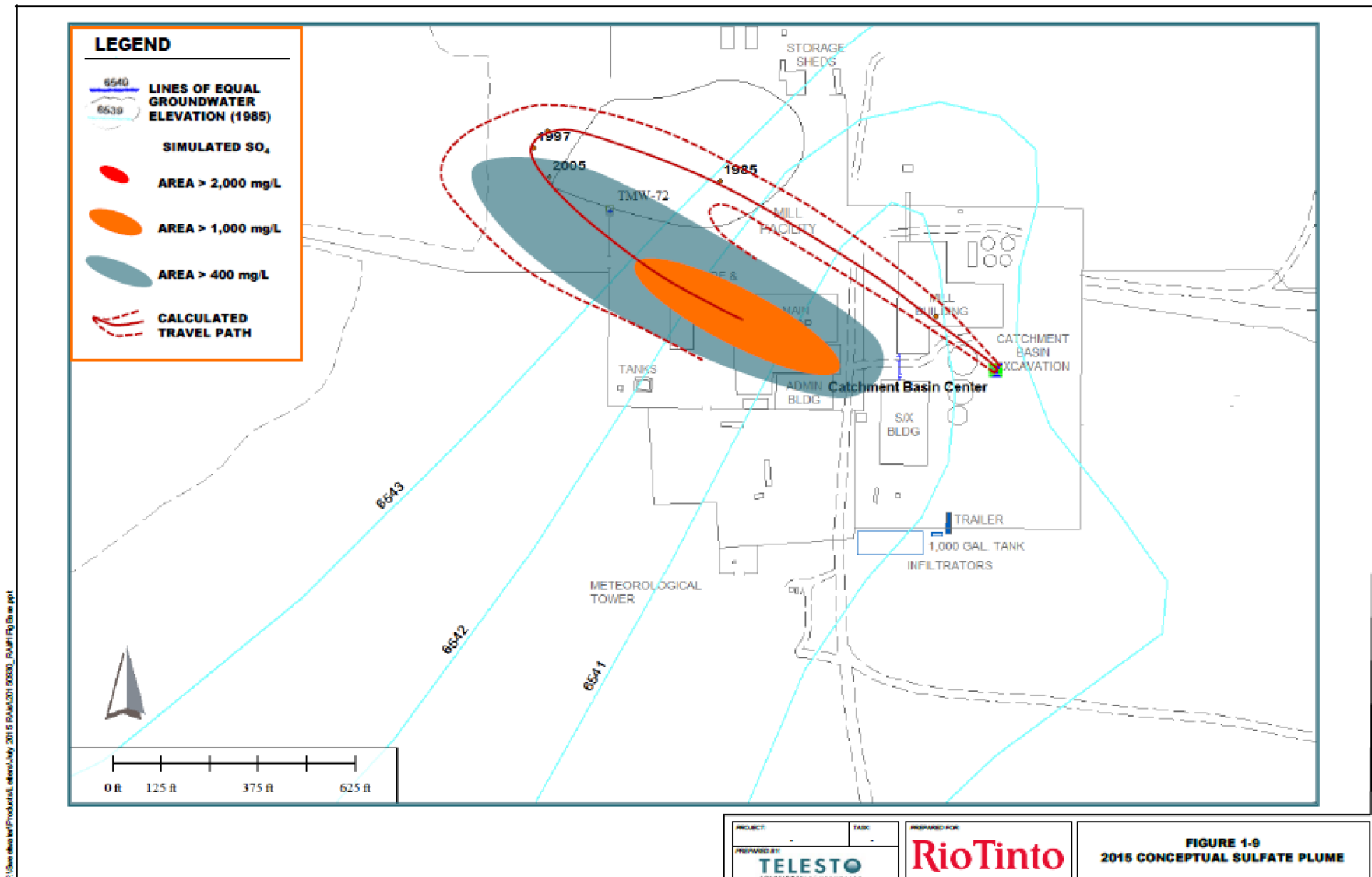
The ground water level contour map (Figure 6) clearly shows that well pumping at the site has created an effective containment system which removes chemical mass and eliminates offsite migration. The beneficial effects are being accomplished at a modest total pumping rate of about 50 gpm.

The February 2009 report “Final Groundwater Plume Interpretation” was reviewed and updated via a technical memorandum in 2014. It concluded:

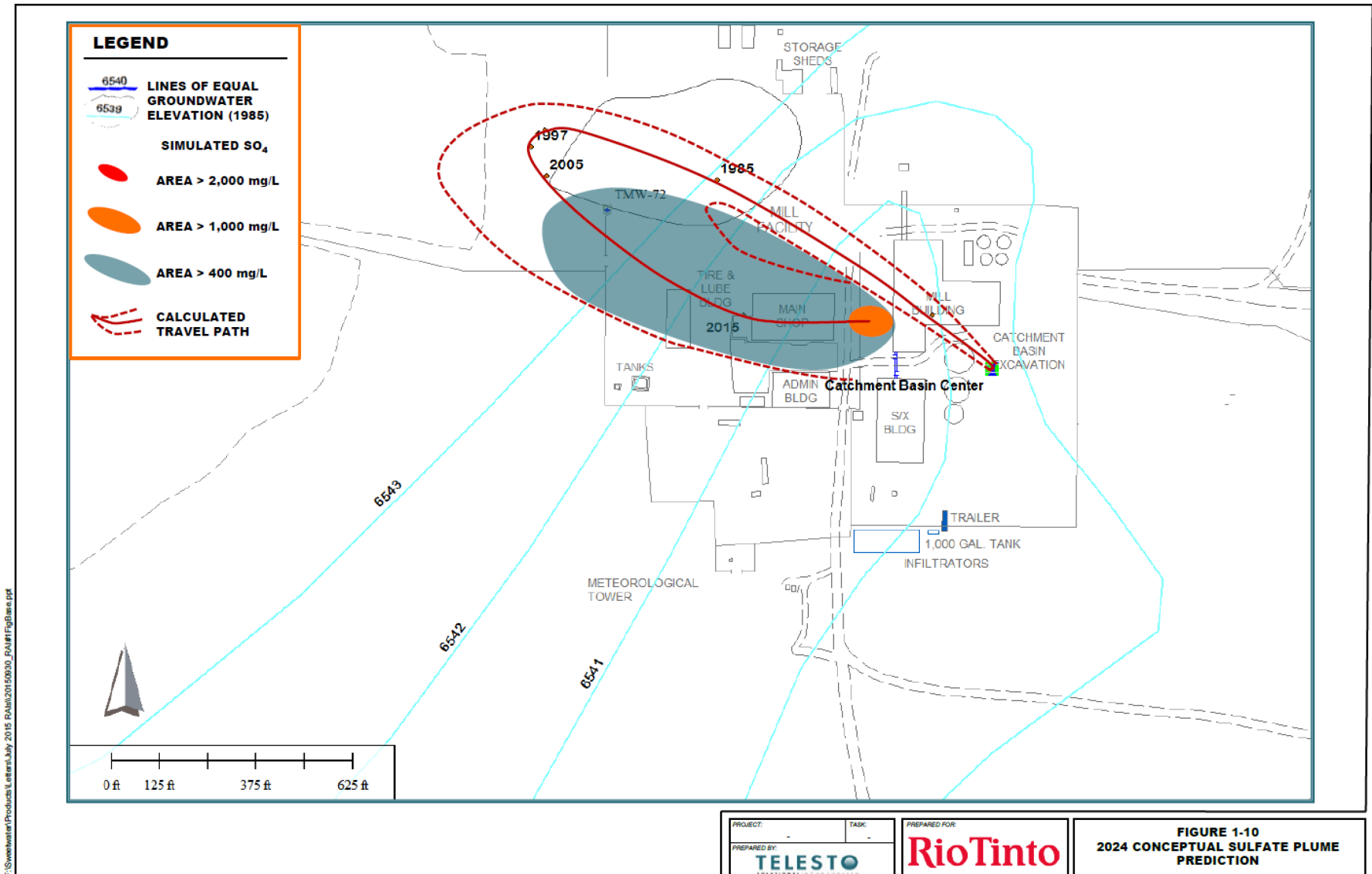
The main and important finding is that the pumping system appears to be capturing the contaminant plume. Higher concentrations east of the tailings impoundment do not seem to indicate a spreading plume, but rather a plume in which analytes are concentrating. Potentiometric mapping indicates that ground water in monitoring wells at the far eastern extent of the well network (east of the tailings impoundment) is moving in the direction of the pumping wells, and is thus being captured.

:

The system is making progress toward remediating the contamination. The figure below from the response to a July 13, 2015 Request for Additional Information (RAI) shows how as of 2015 the pumpback system has begun to reverse the Western migration of the sulfate plume:



The response predicts that at current pumping rates the plume should be further reversed and withdrawn by 2024 (within nine (9) years as depicted below:



The estimate of time discussed with the accompanying map on the previous page is subject to change depending upon the final results of the plume characterization work conducted to date and any additional work to be conducted in the future including the Corrective Action Program (CAP) Revision Report planned for submission in August 2018.

Beginning in October 2017 characterization activities (specifically borehole drilling and well completion) were begun. This work was commenced absent the Nuclear Regulatory Commission's (NRC's) complete review or full approval of the characterization plan. It was begun based upon the approval to "... *proceed forward*..." in the June 1, 2017 e-mail from James Webb in Appendix 5 – Characterization Plan.

The work consisted of drilling and completing nine (9) monitor wells, one (1) East of the Tailings impoundment, one (1) North of the impoundment, five (5) West of the Mill Building, and two (2) Southwest of the facility (to gather downgradient water quality data) as shown in Figure 2 – 2017 Borehole and Well Locations. These are the MAC and DAC wells shown in the figure. The figure also includes existing wells TMW's 1 to 6, North Camp Well, OW-1, DB-1, and 24-93-16BBB. Also five (5) boreholes that were not cased were drilled to the Southwest of the facility to collect one time downgradient water samples at the five (5) locations as well as samples of the aquifer material and materials overlying the aquifer for chemical and leachability testing. These are shown in Figure 2 – 2017 Borehole and Well Locations as well. Data collected from these wells and boreholes including water and soil sampling data are included in this report.

Areal Extent and Concentration of Hazardous Constituents

The areal extent of Natural Uranium above 36 pCi/L, Combined Radium-226/228 above 5.8 pCi/L, and Sulfate above 400ppm both undifferentiated (including naturally occurring material and material from site operations) and differentiated (including only process related materials) are shown in Figures 5 to 10. All hazardous constituents (except for Uranium, Combined Ra226/228 and Gross Alpha) have stabilized below groundwater protection standards in the majority of aquifer wells. Sulfate values of over 400 ppm, Natural Uranium values of over 36.0 pCi/L and Radium 226/228 values 5.8 pCi/L show a plume North and West of the tailings impoundment and around and West of the Catchment Basin. The surface area underlain by the plume varies depending upon the constituent in question and whether just the plume attributed to site operations, or the plume attributed to site operations and natural material is considered. The Combined Radium 226/228 plume covers 91.1 acres, as drawn. The 400 ppm Sulfate contour shown defines an area of 90.7 acres. The 36 pCi/L Uranium plume covers an area of 51.5 acres. These areas are from the plume maps included in this document. These areas are for the undifferentiated plume that includes material from site operations and natural material as well.

On addition, on August 18, 2016 there was a public conference call regarding the license renewal, during which draft license conditions for the renewed license were discussed. Based on that call, a letter dated September 1, 2016 was submitted to the agency committing to "...*a plan to better characterize the existing plume along its western margin (License Condition 11.3) and modify the site's CAP in accordance with characterization data to be acquired in the future.*" A schedule for characterizing the plume's western margin was provided in a table attached to the letter. The first step in this table was to prepare and submit for agency review a characterization plan by September 16, 2016. This characterization plan was submitted on September 15, 2016. The September 1, 2016 letter committing to submit a characterization plan and the characterization plan submitted on September 15, 2016 are included in Appendix 5 – Characterization Plan.

Beginning in October 2017 characterization activities (specifically borehole drilling and well completion) were begun. This work was commenced absent the Nuclear Regulatory Commission's (NRC's) complete review or full approval of the characterization plan. It was begun based upon the approval to "... *proceed forward*..." in the June 1, 2017 e-mail from James Webb in Appendix 5 – Characterization Plan.

The work consisted of drilling and completing nine (9) monitor wells, one (1) East of the Tailings impoundment, one (1) North of the impoundment, five (5) West of the Mill Building, and two (2) Southwest of the facility (to gather downgradient water quality data) as shown in Figure 2 – 2017 Borehole Locations. These are the MAC and DAC wells shown in the figure. The figure also includes existing wells TMW's 1 to 6, North Camp Well, OW-1, DB-1, and 24-93-16BBB. Also five (5) boreholes that were not cased were drilled to the Southwest of the facility to collect one time downgradient water samples at the five (5) locations as well as samples of the aquifer material and materials overlying the aquifer for chemical and leachability testing. These are shown in Figure 2 – 2017 Borehole Locations as well. Data collected from these wells and boreholes including water and soil sampling data are included in this report.

Vertical Extent of Contamination

TMW-8, 24 and 47 (see page 5) were each completed in deeper sand than the other monitor wells. The sample results from these wells clearly show that groundwater contamination from the cell has not migrated into deeper sands. These results show that the contamination is confined to the upper fifty (50) feet of the saturated portion of the Battle Spring Formation.

This was substantiated by Shepherd Miller, Inc. when they completed the groundwater background study dated January 1996. In the study they concluded, *"Water quality sampling of three wells completed within the lower saturated sand, TMW's 8, 24 and 47, shows it to be unaffected by seepage from the cell, indicating that flow from the upper to lower saturated sands is retarded by the clay stone layer."*

This issue was also investigated by Telesto Solutions, Inc. and discussed in their February 2009 report, **"Final Ground Water Plume Interpretation"**. In the report they stated:

Monitoring wells TMW-8 and 24 were completed in a deeper sand of the Battle Spring Aquifer to determine if there is downward migration of affected ground water into the lower portion of the aquifer (Kennecott Uranium Company, 1994). Chemical concentration plots of the deep wells and adjacent shallow-completion wells (TMW-58 and -82) confirm the conclusion of no significant downward migration of affected ground water over the period of sampling (1991 to present). The deep wells do not exhibit the concentration spikes for U-Nat, Ra226-228, sulfate and TDS that are observed in the shallow wells (Attachment A).

Chemical concentration plots for shallow well TMW-48 and adjacent deep well TMW-47 indicate that impacted ground water is not currently present south of the Tailings Impoundment.

(Please note that only the *text* from the Telesto Solutions, Inc. report has been included in this discussion. Any attachments or figures mentioned in the quoted text have not been included.)

Estimate of Time Needed to Obtain Compliance

In a letter to the NRC dated July 29, 1999, Kennecott Uranium Company stated: "In the eleven years of CAP operation (1988 through 1998), 47 percent of the estimated mass of released contaminants have been removed via pumping." Based upon this estimate of the mass of released contaminants removed by pumpback operations, an estimate of ten (10) years to terminate the Corrective Action Program (CAP) was made. This estimate was revised and updated by Kent Bruxvoort Consulting on February 7, 2004. This update concludes that 58% of the estimated total amount of the contaminants had been returned to the tailings impoundment by the end of 2002. This February 7, 2004 update was subsequently revised (2009 Corrective Action Program (CAP) Review) and then showed that 83.8% of the estimated total amount of the contaminants had been removed by the end of 2009.

However, the scope of the CAP has changed with the license amendment request granted on May 26, 2005 to include the contaminated plume in the aquifer around the Catchment Basin. The volume of fluid released through the unlined bottom of the Catchment Basin is unknown, so the mass of salts added to the aquifer from the Catchment Basin cannot be accurately estimated.

This estimate of ten (10) years for the tailings impoundment plume is based solely on removal of contaminants that leaked from the tailings impoundment and does not include contaminants that escaped from the bottom of the Catchment Basin as the volume of contaminants entering the Battle Spring Aquifer from the Catchment Basin is unknown. Any estimate is also subject to change depending upon future plans. For example, should operations at the mill resume, use of pumpback fluids as a source of mill feed water has been considered as a means to hasten removal of the impacted fluids.

Telesto Solutions, Inc. discussed the plume in their February 2009 report entitled **"Final Groundwater Plume Interpretation"**. In discussing remediation times for the entire plume involving both contaminants from the tailings impoundment and the Catchment Basin, they stated:

The migration distance between TMW-89 and pumping well TMW-75 is about 310 feet, so the computed ground water travel time between these wells is on the order of 3.3 years. Industrial experience in ground water remediation has shown that in the absence of operating chemical sources, the time required for ground water cleanup is typically 5 or more times the ground water travel time to pumping wells. So it would be reasonable to assume that the current ground water pump and treat system will need to be operated for a

minimum of 17 years. This differs from original estimates included in previous CAP Reviews that were based on contamination being derived solely from the tailings impoundment leak. This new time estimate includes remediation of fluids leaked from the Catchment Basin as well. The volume of fluid leaked from the Catchment Basin is unknown. This computed time frame is valid only if chemical sources are no longer operating.

Simple calculations suggest that in areas where chemicals in ground water are purely residual (that is, not affected by a current chemical source such as naturally occurring minerals), the additional time for remediation is likely to be on the order of 10 to 20 years. In these areas, one would expect to see systematic decreases in chemical concentration, which should eventually fall below regulatory levels.

As discussed in previous sections, a common situation observed at the site is chemical concentrations that are above ground water protection standards or corrective action levels, and which are either increasing or do not show a consistent downward trend. This suggests that mechanisms exist which are continuing to introduce chemical mass into the ground water aquifer. Where this occurs, the additional time for remediation is likely to be significantly longer than 20 years.

Two mechanisms can be envisioned for introducing chemical mass into the active ground water flow system. One possibility is that chemically affected water exists in low permeability strata that contain essentially stagnant ground water. Chemical transport out of the low permeability strata may occur by diffusion that slowly bleeds chemical mass from the stagnant zones and into the more permeable zones with active ground water flow induced by pumping. Although this “back-diffusion” process was first recognized decades ago, it has recently become an active topic in the technical literature and is the subject of current research. An important characteristic of this transport mechanism is that it is a very slow process that cannot be sped up by increasing the flow rate of ground water pumping systems. This is because pumping increases flow in the permeable zones, but does not have a significant effect on the low permeability zones with stagnant ground water.

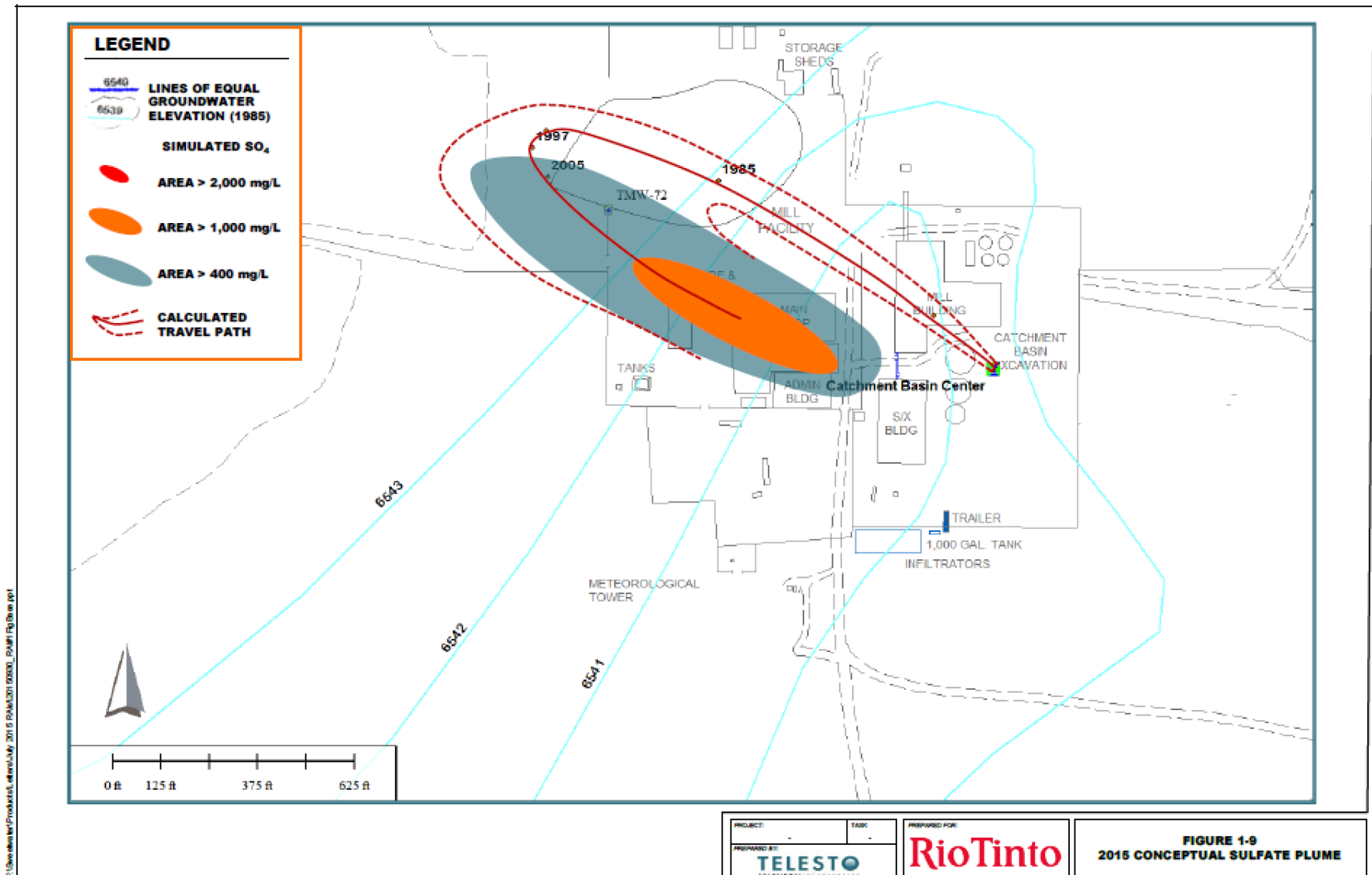
Another mechanism that may delay the introduction of chemical mass into ground water is the perched water body that historically existed north, east and west of the tailings impoundment. Having been fed by tailings leakage, the perched water contained high concentrations of regulated chemicals. After the tailings leak was mitigated, the perched water body would have drained slowly downward towards the water table. Even though saturated conditions in the historical perched water zone are largely gone, slow unsaturated flow to water table is probably ongoing and this can introduce chemicals to ground water at the water table. In addition, typical heterogeneity in the geologic system likely leads to non-uniform vertical drainage that causes more chemicals to enter the ground water at some locations compared to others. The result is chemical hotspots that do not correspond to expected lateral transport originating at or below the tailings. This mechanism likely operated in the vicinity of the Tailings Impoundment, within the area outlined by the historical maximum extent of the perched water body (see Figure 1).

This report was updated by a technical memorandum in 2014 which discussed this issue stating:

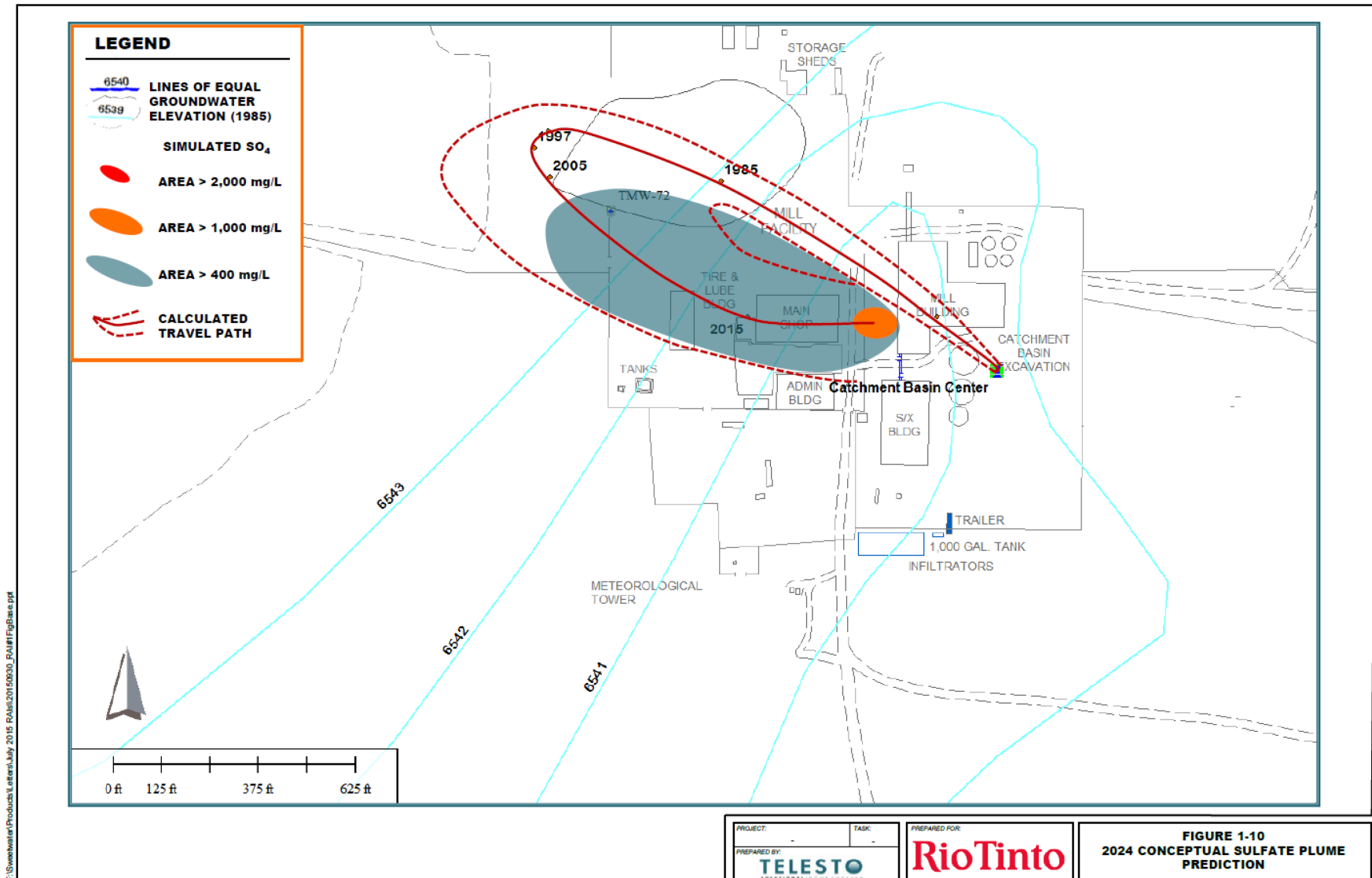
The extent of the source of uranium in ground water is not known at this time, as discussed in prior NRC-submitted documents (Corrective Action Program Reviews – Kennecott Uranium Company 2005 to 2013, inclusive). Because the amount of uranium that was deposited in the Catchment Basin is not known, the time to remediate ground water cannot be determined with any accuracy. The previous estimate of 10-20 years is a reasonable assumption. An estimate longer than 20 years would not affect surety costs, because of present worth costing. And at this time, continued operation of the pumping system is the best way to evaluate remediation progress.

(Please note that only the text from the Telesto Solutions, Inc. report has been included in this discussion. Any attachments of figures mentioned in the quoted text have not been included.)

In the responses to the July 13, 2015 Request for Additional Information (RAI) Telesto Solutions, Inc. shows how as of 2015 the pumpback system has begun to reverse the Western migration of the sulfate plume in the figure below:



The response to the July 13, 2015 Request for Additional Information (RAI) Telesto Solutions, Inc. predicts that at current pumping rates the plume should be further reversed and withdrawn by 2024 (within nine (9) years as depicted below:



The estimate of time required to obtain compliance will also be impacted by the final conclusions of the previously described characterization work conducted to date (only preliminary interpretations are presented in this report) as well as any additional characterization work to be conducted in the future.

Beginning in October 2017 characterization activities (specifically borehole drilling and well completion) were begun. This work was commenced absent the Nuclear Regulatory Commission's (NRC's) complete review or full approval of the characterization plan. It was begun based upon the approval to "... proceed forward..." in the June 1, 2017 e-mail from James Webb in Appendix 5 – Characterization Plan.

The work consisted of drilling and completing nine (9) monitor wells, one (1) East of the Tailings impoundment, one (1) North of the impoundment, five (5) West of the Mill Building, and two (2) Southwest of the facility (to gather downgradient water quality data) as shown in Figure 2 – 2017 Borehole Locations. These are the MAC and DAC wells shown in the figure. The figure also includes existing wells TMW's 1 to 6, North Camp Well, OW-1, DB-1, and 24-93-16BBB. Also five (5) boreholes that were not cased were drilled to the Southwest of the facility to collect one time downgradient water samples at the five (5) locations as well as samples of the aquifer material and materials overlying the aquifer for chemical and leachability testing. These are shown in Figure 2 – 2017 Borehole Locations as well. Data collected from these wells and boreholes including water and soil sampling data are included in this report.

Additional information on the estimate of time required to achieve compliance based upon the completed characterization plan drilling will be provided in the Corrective Action Program (CAP) Revision Report planned for submission in August 2018.

Aquifer Water Quality

Water quality (as judged by a decreasing trend in TDS values) in aquifer monitor wells TMWs 18, 36, 51, 52, 56, 59, 75, 78, 89, 94, 95, 99, 102 and 106 is improving. An increasing trend in TDS values is observed in TMWs 37 and 45. TMW-4 has shown anomalous total dissolved solids (TDS) concentrations, manganese, iron and nickel values, as well as a depressed pH. Total Dissolved Solids in TMW-4 have declined from 692 mg/L (1/4/05) to 353 mg/L (3/6/17). In the same time period nickel has declined from 0.16 mg/L to 0.02 mg/L, manganese has declined from 0.61 mg/L to 0.017 mg/L and iron declined from 28.1 mg/L to 3.68 mg/L. During the same time period, pH has increased from 6.34 to 7.14. The elevated TDS in this well is clearly due to factors other than the tailings impoundment plume, since wells with lower TDS values and no anomalous nickel values (TMW-2 and 53) lie between TMW-4 and the plume. The anomalous total dissolved solids values observed in TMW-6 in 2005 have declined from 608 mg/L (1/10/05) to 505 mg/L (3/7/17). TMW-48 (with lower TDS concentrations) lies between TMW-6 and the plume. The elevated total dissolved solids concentrations in these two wells and anomalous iron, manganese and nickel values in TMW-4 may be due to mobilization of materials used to complete the wells. Kennecott Uranium Company will continue to provide a specific discussion regarding these wells until it is clear that the situation is fully understood or resolved.

TMW-4 still exhibits nickel values that exceed the Groundwater Protection Standard (GPS) as seen in the March 6, 2017 sample, which has a nickel concentration of 0.02 mg/L. The concentration has been dropping since 2005. TMWs 35, 59, 98, 99, 108, 109, and 112 exhibited nickel values that exceed the GPS in 2017. These wells with the exception of TMW-35 and TMW-59 are in the vicinity of the Catchment Basin. TMWs 4, 7, 16, 18, 36, 58, 59, 63, 99, 108, 109 and 112 exhibited manganese concentrations that exceeded the GPS in 2017. TMWs 4, 7, 18, 35, 36, 58, 59, 63, 99, 108, 109 and 112 exhibited iron concentrations that exceeded the GPS in 2017. The groundwater plume is primarily a sulfate, natural uranium and combined Radium-226/228 plume, with some localized exceedances of other metals, primarily nickel, iron and manganese.

Kennecott Uranium Company believes that an increase in sulfate (a major component of TDS) followed by a decrease in pH is the first sign of seepage in a monitor well. An increase in sulfate appears because it was used in the process. Most metals will not migrate through these soils until the buffering capacity of the soil has been exhausted.

In the responses to the July 13, 2015 Request for Additional Information (RAI) Telesto Solutions, Inc. discusses the plume chemistry stating:

In addition, in the geochemical environment of the Battle Spring Aquifer, sulfate travels as a conservative element (i.e., it travels unimpeded with the groundwater flow). Uranium and manganese in an oxidized environment (e.g., top of the water table) can also be considered to travel as conservative elements, but the persistent and spotty natural presence of these constituents tends to make each an uncertain indicator parameter. Radium and iron tend to be more restricted in their transport due to geochemical and adsorption processes.

Therefore the term sulfate plume is used herein to describe the likely extents of mill-derived constituents released from the Catchment Basin.

Since sulfuric acid was used in the process, Sulfate remains a good indicator of the plume's location.

The Battle Spring Aquifer wells immediately around the Catchment Basin exhibit anomalous TDS, radium, uranium, iron and manganese values, with wells TMW's 98, 99, 108, 109, and 112 currently exhibiting anomalous nickel values. Two (2) of the wells in the vicinity of the Catchment Basin showed traces of organic contamination in 2017, they are as follows:

- TMW-99 – 1,1-Dichloroethane
- TMW-103 – Methylene chloride, chloroform

In 2012 some wells showed methylene chloride believed to be derived from a new sampling pump hose. A number of wells that are tested for hydrocarbons returned results for methylene chloride in 2012. At first these results were believed to some sort of laboratory error. It was discovered that:

- Wells that were not sampled with the sampling unit but rather via the downhole pump in them (pumpback wells) that included TMWs 96 and 97 showed no anomalous methylene chloride during 2012.
- Wells that were pumped with the sampling unit and did not previously show anomalous methylene chloride only began to show methylene chloride in samples collected on or after April 16, 2012 following installation of a new sampling hose. Following deployment of the new sampling unit on February 12, 2013 only a single well (TMW-103) yielded a result for methylene chloride in 2016 and this was only in the first two (2) quarters. The third and fourth quarter samples tested free of methylene chloride.
- The observed methylene chloride in the samples was clearly due to contamination from a new hose installed on the old sampling unit immediately prior to April 16, 2012. Once the new sampling unit with a new hose was deployed on February 12, 2013, the methylene chloride anomalies abated.

TMW-100 exhibited an anomalous Diesel Range Organic (DRO) result of 7 mg/L when sampled on August 8, 2016. The well never yielded a DRO result previously. The well was sampled on October 18 and November 9, 2016 and yielded DRO results of 6.6 and 1.9 mg/L respectively. It was resampled following thorough pre-sample pumping on December 19, 2016. The Diesel Range Organic (DRO) result was non-detect. It is believed that the anomalous result is due to some form of sample contamination and not the presence of Diesel Range Organics (DRO) in the aquifer around the well. The sample collected in February 28, 2017 exhibited 1.1 milligrams per liter of diesel range organics. The well was resampled on April 4, 2017 and the results were non-detect. Diesel range organics in subsequent samples collected on June 6, 2017, August 1, 2017 and November 7, 2017 were non-detect as well.

Appendix 1

Study, Charts, Tables in Support of Text

**Kennecott Uranium Company
Sweetwater Uranium Project
Diesel Contaminated Soil Excavation
South Pit Wall Uranium Study**

[illegible]

Gareth D. Mitchell
Consulting Geologist
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State College, PA 16803
Home: (814) 237-0868
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June 13, 2007

Mr. Steve Dobos
Energy Laboratories, Inc.
2393 Salt Creek Hwy.
Casper, WY 82602

RE: Petrographic Evaluation of Sample #C07051289-001A from P.O. # 1845

Dear Mr. Dobos,

Work requested in your purchase order of 5-29-07 for sample #C07051289-001A to perform carbon identification using reflected-light optical microscopy has been completed and the final report is attached.

If there are any questions or concerns, please call or e-mail me directly.

Thank you.

Sincerely,

Gareth Mitchell

Enclosure: Report

Final Report

To: Mr. Steve Dobos
From: Gareth D. Mitchell
Date: June 13, 2007
Subject: Petrographic Evaluation of Sample #C07051289-001A from P.O. # 1845

Request

A sample identified as #C07051289-001A was received 6-7-07 for petrographic evaluation. The sample had been shipped in a cooler containing bags of ice and was still cold when received. Consequently, the specimen was placed under refrigeration until sample preparation was initiated. As established from our email conversation of 5-24-07, optical microscopy was to be employed to determine the nature of the organic matter found in the sample and specifically to determine if “any naturally-occurring organic matter” (such as lignin, kerogen, bitumen, etc. that might have precipitated uranium at this location) was present.

Procedures

The sample was found to be composed of three fairly large angular particles (~10 g) and a coarse powder (~11 g). These components were separated and allowed to come to room temperature before they were inspected. The largest particle was soft, organic matter which had prominent bedding and considerable surface moisture, whereas the particulate matter ranged in particle size (0.5 – 3.0 mm), appeared to be a mixture of light and dark colored materials and was agglomerated with surface moisture. To prepare an optical mount suitable for reflected-light microscopy, the moisture content had to be reduced. The large particle was placed in a drying pan and a one-quarter split of the particulate sample retrieved by riffing was placed in second pan. Both samples were placed in a vacuum oven between 30-50°C for about 18 hrs with the result that the large particle had become swollen, desiccated and broken into smaller segments, while the particulate sample was composed of individual loose particles.

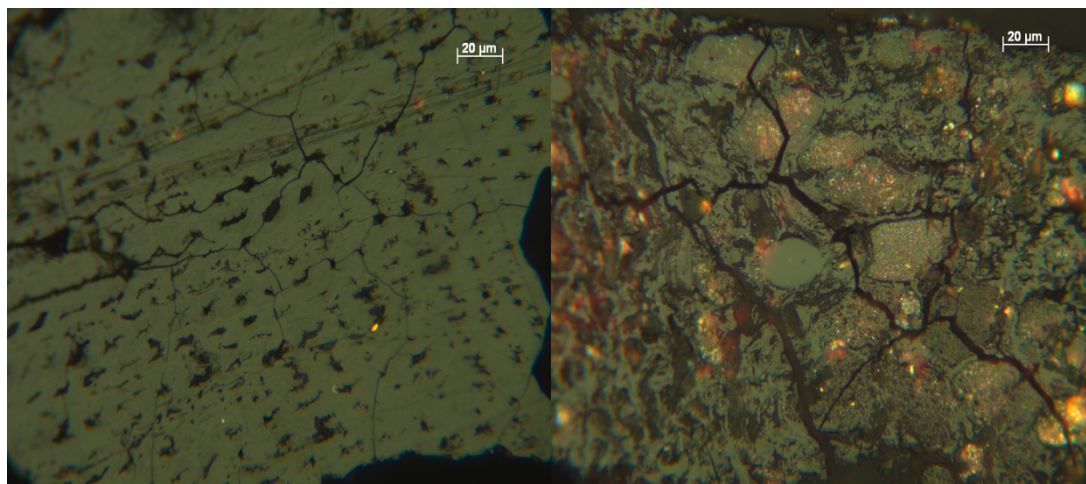
Remnants of the large particle were glued fast to the bottom of a 28 mm sample mold and embedded under vacuum with a cold-setting epoxy (EL01). The particulate sample (EL02) was vacuum impregnated in epoxy resin and placed in a centrifuge to establish a density/particle-size gradient. After hardening, the sample was cut longitudinally to expose the particle gradation and mounted 25 mm sample mold with additional epoxy. Both specimen surfaces were ground using 400 and 600 grit papers and polished using 0.3 and 0.05 micron alumina slurries on a high-nap cloth and silk, respectively. The sample was examined first in air using blue-light (436 nm) irradiation inspecting the 520 nm emission surface at 500X magnification and then using white light employing an oil immersion objective at 625X magnification using Zeiss research microscopes. In addition, a few reflectance readings were taken from the main organic

component identified in EL01. A Leitz MPV2 reflectance photometer system at 625 X magnification in oil immersion and polarized white-light was used to collect maximum reflectance values from 11 different areas and the mean value is provided below. Mean reflectance values are an acceptable procedure for determination of organic maturity.

Results

The organic matter observed in both specimens (EL01 and EL02) separated from sample #C07051289-001A is basically humified woody tissue of very low maturity (mean maximum reflectance in oil of 0.18 % \pm 0.01) that contains fluorescent and presumably resinous material within open cell lumens and along some open fractures. A few fluorescent bodies appearing to be amorphous organic matter were the only other organic matter observed in either sample.

As seen in the photomicrographs below, the regular alignment of cell wall and filled or open lumens taken from EL01 are compared with a fragment of humified and gelified woody tissue found in specimen EL02. The large particle separated as EL01 was composed entirely



EL01

EL02

of woody tissue that had gone through the biochemical stage of coalification in which the cell walls were gelified and converted to humic matter. The tissue observed in the EL01 photograph exhibits little detail within the remnant cell walls and most of the lumens were filled with amorphous humic material or a fluorescing resin (dark areas), suggesting that the tissue has gone beyond the peat stage. However, the very low mean reflectance suggests that it may not have reached the rank of lignite in terms of coal maturity.

The photograph of the dominant organic matter in specimen EL02 shows many rounded bodies which in brown coal terminology are referred to as gelinite. As the name implies the

humic matter from which they were derived were once gelatinous and have since formed into these amorphous bodies surrounded by the remnants of cell walls. In addition to organic matter, specimen EL02 contained mostly angular fragments of minerals and rocks composed of quartz, other silicates and carbonate. Furthermore, some of the organic material had been infilled and was in the early stage of being replaced by silica.

These observations demonstrate that the organic matter contained in sample #C07051289-001A were derived from terrestrial plants with secondary woody tissues that have gone through at least the initial stage of coalification. Depending upon stratigraphy and sample location in the field, the type and condition of organic matter and mineralization observed suggests that it is naturally occurring.

[illegible]

KENNECOTT URANIUM COMPANY
Groundwater Elevations

			Revised 11/96												
Well			Measuring												
No.	Northing	Easting	Point Elev.	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
TMW-1				105.60	106.00	105.90	105.41	105.60	105.79	106.20	105.85	105.70	105.85	106.25	106.80
TMW-1	150,107.66	324,536.42	6648.22	6,544.06	6,543.66	6,543.76	6,544.25	6,544.06	6,543.87	6,543.46	6,543.81	6,543.96	6,543.81	6,543.41	6,542.86
TMW-2				84.80	85.20	85.25	85.00	84.23	85.15	84.50	84.45	84.50	84.80	84.40	86.00
TMW-2	147,133.96	324,360.13	6627.09	6,542.29	6,541.89	6,541.84	6,542.09	6,542.86	6,541.94	6,542.59	6,542.64	6,542.59	6,542.29	6,542.69	6,541.09
TMW-3				84.35	84.52	84.82	84.61	84.55	84.55	84.55	84.70	85.00	84.95	84.90	84.95
TMW-3	145,984.03	324,361.03	6626.27	6,541.92	6,541.75	6,541.45	6,541.66	6,541.72	6,541.72	6,541.72	6,541.57	6,541.27	6,541.32	6,541.37	6,541.32
TMW-4				85.50	85.65	86.15	85.90	85.71	85.54	85.62	85.75	85.70	86.10	85.80	86.00
TMW-4	147,141.81	323,176.55	6626.89	6,541.39	6,541.24	6,540.74	6,540.99	6,541.18	6,541.35	6,541.27	6,541.14	6,541.19	6,540.79	6,541.09	6,540.89
TMW-5				110.68	109.38	110.93	110.81	110.56	110.80	111.00	111.00	111.10	111.20	111.10	111.00
TMW-5	149,053.50	328,102.80	6658.59	6,547.79	6,549.09	6,547.54	6,547.66	6,547.91	6,547.67	6,547.47	6,547.47	6,547.37	6,547.27	6,547.37	6,547.47
TMW-6				97.20	96.29	97.92	97.59	97.40	97.30	97.59	97.50	97.70	97.70	97.70	97.70
TMW-6	145,356.25	327,464.50	6641.66	6,544.46	6,545.37	6,543.74	6,544.07	6,544.26	6,544.36	6,544.07	6,544.16	6,543.96	6,543.96	6,543.96	6,543.96
TMW-7				115.03	115.40	115.79	115.59	115.50	117.19	117.20	117.38	117.40	117.00	116.00	116.20
TMW-7	149,339.65	325,014.01	6654.40	6,539.66	6,539.29	6,538.90	6,539.10	6,539.19	6,537.50	6,537.49	6,537.31	6,537.29	6,537.69	6,538.69	6,538.49
TMW-8				103.05	103.00	103.62	103.15	103.21	103.19	103.35	103.50	103.10	103.90	103.32	104.10
TMW-8	148,912.15	324,561.80	6646.47	6,543.42	6,543.47	6,542.85	6,543.32	6,543.26	6,543.28	6,543.12	6,542.97	6,543.37	6,542.57	6,543.15	6,542.37
TMW-10															
TMW-10	149,145.59	323,037.81	6556.92												
TMW-15				101.20	101.30	101.61	101.70	101.40	101.45	101.69	101.72	101.70	102.00	101.60	102.00
TMW-15	147,910.39	325,006.29	6643.26	6,542.06	6,541.96	6,541.65	6,541.56	6,541.86	6,541.81	6,541.57	6,541.54	6,541.56	6,541.26	6,541.66	6,541.26
TMW-16				113.29	113.30	113.59	113.10	113.42	113.55	113.80	113.70	113.60	113.80	114.00	113.70
TMW-16	149,397.99	325,023.08	6655.62	6,542.33	6,542.32	6,542.03	6,542.52	6,542.20	6,542.07	6,541.82	6,541.92	6,542.02	6,541.82	6,541.62	6,541.92
TMW-17				121.93	121.80	123.51	123.60	123.40	123.50	117.20	124.60	123.60	124.20	124.10	124.35
TMW-17	149,602.14	325,994.00	6660.87	6,538.94	6,539.07	6,537.36	6,537.27	6,537.47	6,537.37	6,543.67	6,536.27	6,537.27	6,536.67	6,536.77	6,536.52
TMW-18				127.80	128.00	127.85	128.00	128.05	127.55	127.60	127.70	128.55	128.55	128.20	128.30
TMW-18	148,922.42	325,018.57	6655.98	6,528.18	6,527.98	6,528.13	6,527.98	6,527.93	6,528.43	6,528.38	6,528.28	6,527.43	6,527.43	6,527.78	6,527.68
TMW-24				115.06	115.52	115.19	115.20	115.10	115.25	115.62	115.32	115.30	115.55	115.38	115.80
TMW-24	150,307.90	325,992.24	6661.21	6,546.15	6,545.69	6,546.02	6,546.01	6,546.11	6,545.96	6,545.59	6,545.89	6,545.91	6,545.66	6,545.83	6,545.41
TMW-29				110.78	115.65	110.92	110.80	110.39	111.15	111.00	111.00	110.80	110.00	111.00	111.60
TMW-29	150,108.27	326,786.49	6656.64	6,546.31	6,541.44	6,546.17	6,546.29	6,546.70	6,545.94	6,546.09	6,546.09	6,546.29	6,547.09	6,546.09	6,545.49
TMW-31				114.95	134.00	115.00	115.85	114.90	115.00	115.35	115.10	115.00	115.55	115.15	115.60
TMW-31	149,901.61	327,194.15	6661.09	6,546.14	6,527.09	6,546.09	6,545.24	6,546.19	6,546.09	6,545.74	6,545.99	6,546.09	6,545.54	6,545.94	6,545.49
TMW-35				112.00	112.59	112.25	112.35	112.00	112.15	112.45	112.20	112.00	112.40	113.30	113.60
TMW-35	149,509.35	327,198.92	6657.75	6,545.75	6,545.16	6,545.50	6,545.40	6,545.75	6,545.60	6,545.30	6,545.55	6,545.75	6,545.35	6,544.45	6,544.15
TMW-36				112.65	112.90	112.65	112.45	112.55	112.70	112.85	112.72	112.65	113.20	112.82	113.20
TMW-36	149,108.62	327,007.02	6657.75	6,545.10	6,544.85	6,545.10	6,545.30	6,545.20	6,545.05	6,544.90	6,545.03	6,545.10	6,544.55	6,544.93	6,544.55
TMW-37				105.51	107.00	105.80	105.82	105.60	105.70	105.90	105.90	105.80	106.00	106.00	106.40
TMW-37	148,455.68	326,999.77	6650.73	6,545.22	6,543.73	6,544.93	6,544.91	6,545.13	6,545.03	6,544.83	6,544.83	6,544.93	6,544.73	6,544.73	6,544.33
TMW-44				94.78	95.05	94.82	94.81	94.65	94.80	95.25	94.90	94.80	95.00	94.90	95.25
TMW-44	147,612.17	325,588.96	6637.52	6,542.74	6,542.47	6,542.70	6,542.71	6,542.87	6,542.72	6,542.27	6,542.62	6,542.72	6,542.52	6,542.62	6,542.27
TMW-45				97.50	98.27	97.30	97.53	97.30	97.60	97.75	97.70	97.60	98.00	97.75	98.00
TMW-45	147,619.66	326,196.14	6641.00	6,543.50	6,542.73	6,543.70	6,543.47	6,543.70	6,543.40	6,543.25	6,543.30	6,543.40	6,543.00	6,543.25	6,543.00
TMW-47				95.45	95.70	95.80	95.58	95.48	95.75	95.80	95.70	95.70	96.00	97.98	96.10
TMW-47	147,310.10	326,491.24	6640.35	6,544.90	6,544.65	6,544.55	6,544.77	6,544.87	6,544.60	6,544.55	6,544.65	6,544.65	6,544.35	6,542.37	6,544.25
TMW-48				95.52	97.92	95.63	95.65	95.70	95.70	95.80	95.70	95.85	96.05	95.70	96.00
TMW-48	147,312.58	326,482.99	6639.72	6,544.20	6,541.80	6,544.09	6,544.07	6,544.02	6,544.02	6,543.92	6,544.02	6,543.87	6,543.67	6,544.02	6,543.72
TMW-49				98.26	98.00	98.30	98.26	98.20	98.50	98.50	98.65	98.80	98.90	98.60	98.80
TMW-49	147,708.93	324,836.10	6640.19	6,541.93	6,542.19	6,541.89	6,541.93	6,541.99	6,541.69	6,541.69	6,541.54	6,541.39	6,541.29	6,541.59	6,541.39
TMW-50				106.25	106.18	106.30	106.50	106.40	106.59	106.50	107.10	106.80	106.90	106.55	106.60
TMW-50	148,198.81	324,697.71	6647.80	6,541.55	6,541.62	6,541.50	6,541.30	6,541.40	6,541.21	6,541.30	6,540.70	6,541.00	6,540.90	6,541.25	6,541.20
TMW-51				108.37	108.03	108.45	108.32	108.46	108.54	108.72	108.90	108.90	109.00	108.75	108.90
TMW-51	147,995.26	324,449.18	6650.00	6,541.63	6,541.97	6,541.55	6,541.68	6,541.54	6,541.46	6,541.28	6,541.10	6,541.10	6,541.00	6,541.25	6,541.10
TMW-52				103.14	103.20	105.35	103.81	103.45	103.60	106.35	103.70	103.65	104.25	104.00	103.80
TMW-52	148,316.56	324,221.64	6644.70	6,541.56	6,541.50	6,539.35	6,540.89	6,541.25	6,541.10	6,538.35	6,541.00	6,541.05	6,540.45	6,540.70	6,540.90
TMW-53				99.90	100.00	99.90	100.10	99.91	100.20	100.00	100.20	100.40	100.80	100.10	100.30
TMW-53	147,849.28	323,913.72	6641.47	6,541.57	6,541.47	6,541.57	6,541.37	6,541.56	6,541.27	6,541.47	6,541.27	6,541.07	6,540.67	6,541.37	6,541.17
TMW-54				58.30	58.32	58.28	57.89	57.78	57.40	57.40	57.30	56.85	57.10	57.00	57.20
TMW-54	149,122.85	324,827.05	6,652.06	6,593.76	6,593.74	6,593.78	6,594.17	6,594.28	6,594.66	6,594.66	6,594.76	6,595.21	6,594.96	6,595.06	6,594.86
TMW-55				57.00	57.62	56.60	56.80	56.40	56.20	56.00	55.70	55.50	55.60	55.60	56.00
TMW-55	149,098.35	324,587.76	6,649.48	6,592.48	6,591.86	6,592.88	6,592.68	6,593.08	6,593.28	6,593.48	6,593.78	6,593.98	6,593.88	6,593.88	6,593.48
TMW-56				105.60	105.90	105.71	105.95	106.20	106.55	107.20	106.80	106.50	107.10	106.55	106.15
TMW-56	149,105.02	324,418.67	6,647.72	6,542.12	6,541.82	6,542.01	6,541.77	6,541.52	6,541.17	6,540.52	6,540.92	6,541.22	6,540.62	6,541.17	6,541.57
TMW-57				106.27	106.00	105.20	106.20	109.96	112.24	112.40	112.50	112.40	111.90	106.70	106.05
TMW-57	149,296.82	324,590.47	6,649.86	6,543.59	6,543.86	6,544.66	6,543.66	6,539.90	6,537.62	6,537.46	6,537.36	6,537.46	6,537.96	6,543.16	6,543.81
TMW-58				105.36	105.20	105.90	110.15	110.20	110.85	110.70	110.74	110.38	110.80	106.25	105.80
TMW-58	148,915.74	324,570.92	6,646.96	6,541.60	6,541.76	6,541.06	6,536.81	6,536.76	6,536.11	6,536.26	6,536.22	6,536.58	6,536.16	6,540.71	6,541.

KENNECOTT URANIUM COMPANY
Groundwater Elevations

			Revised 11/96												
Well			Measuring												
No.	Northing	Easting	Point Elev.	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
TMW-61				107.90	106.80	107.90	108.00	108.00	108.20	108.38	108.90	108.50	108.95	108.31	108.20
TMW-61	148,422.32	324,592.68	6,649.36	6,541.46	6,542.56	6,541.46	6,541.36	6,541.36	6,541.16	6,540.98	6,540.46	6,540.86	6,540.41	6,541.05	6,541.16
TMW-62				104.92	104.74	105.05	105.36	105.85	105.50	107.11	106.20	106.20	106.25	105.70	105.60
TMW-62	148,789.00	324,277.11	6,646.13	6,541.36	6,541.54	6,541.23	6,540.92	6,540.43	6,540.78	6,539.17	6,540.08	6,540.08	6,540.03	6,540.58	6,540.68
TMW-63				119.38	119.69	119.18	119.89	120.00	119.82	120.00	120.10	120.00	120.35	119.20	119.40
TMW-63	148,924.39	325,009.90	6,654.77	6,535.39	6,535.08	6,535.59	6,534.88	6,534.77	6,534.95	6,534.77	6,534.67	6,534.77	6,534.42	6,535.57	6,535.37
TMW-64				108.84	109.00	108.74	108.90	108.81	108.95	109.45	109.00	108.95	109.40	109.20	109.65
TMW-64	149,797.71	324,991.71	6,652.25	6,543.38	6,543.22	6,543.48	6,543.32	6,543.41	6,543.27	6,542.77	6,543.22	6,543.27	6,542.82	6,543.02	6,542.57
TMW-67				71.78	82.05	71.92	71.85	71.88	72.10	72.11	72.28	73.00	73.00	72.20	68.90
TMW-67	150,003.26	325,192.80	6,656.63	6,584.85	6,574.58	6,584.71	6,584.78	6,584.75	6,584.53	6,584.52	6,584.35	6,583.63	6,583.63	6,584.43	6,587.73
TMW-69				112.10	112.02	111.85	111.95	112.28	112.45	112.60	112.40	112.15	112.80	112.40	112.75
TMW-69	149,649.27	324,659.43	6,654.47	6,542.37	6,542.45	6,542.62	6,542.52	6,542.19	6,542.02	6,541.87	6,542.07	6,542.32	6,541.67	6,542.07	6,541.72
TMW-70				108.88	108.80	108.58	108.90	109.20	109.70	109.80	109.60	109.30	109.55	109.60	109.45
TMW-70	149,309.09	324,369.82	6,651.06	6,542.18	6,542.26	6,542.48	6,542.16	6,541.86	6,541.36	6,541.26	6,541.46	6,541.76	6,541.51	6,541.46	6,541.61
TMW-71				111.44	111.88	111.25	111.24	111.61	111.70	111.65	111.65	111.65	111.85	111.75	111.75
TMW-71	149,835.18	324,420.67	6,654.52	6,543.08	6,542.64	6,543.27	6,543.28	6,542.91	6,542.82	6,542.87	6,542.87	6,542.87	6,542.67	6,542.77	6,542.77
TMW-72				98.97	98.60	93.43	99.48	99.00	99.25	99.30	99.24	99.30	99.45	99.40	99.60
TMW-72	149,020.47	322,997.15	6,641.41	6,542.44	6,542.81	6,547.98	6,541.93	6,542.41	6,542.16	6,542.11	6,542.17	6,542.11	6,541.96	6,542.01	6,541.81
TMW-73				100.81	101.20	101.01	100.71	100.82	100.80	100.88	100.85	100.80	101.00	101.00	101.25
TMW-73	149,055.70	322,896.82	6,644.85	6,544.04	6,543.65	6,543.84	6,544.14	6,544.03	6,544.05	6,543.97	6,544.00	6,544.05	6,543.85	6,543.85	6,543.60
TMW-75				117.21	117.28	118.26	118.30	117.19	117.62	117.55	117.40	118.00	117.70	117.30	117.40
TMW-75	149,801.01	325,992.80	6,660.18	6,542.97	6,542.90	6,541.92	6,541.88	6,542.99	6,542.56	6,542.63	6,542.78	6,542.18	6,542.48	6,542.88	6,542.78
TMW-78				114.44	114.68	114.30	114.32	114.60	114.81	115.05	114.85	114.75	115.00	114.90	115.00
TMW-78	149,900.26	325,592.38	6,658.50	6,544.06	6,543.82	6,544.20	6,544.18	6,543.90	6,543.69	6,543.45	6,543.65	6,543.75	6,543.50	6,543.60	6,543.50
TMW-82				115.25	116.00	115.62	115.30	115.30	115.52	115.60	115.45	115.30	115.65	115.50	115.90
TMW-82	150,302.15	325,987.47	6,660.64	6,545.39	6,544.64	6,545.02	6,545.34	6,545.34	6,545.12	6,545.04	6,545.19	6,545.34	6,544.99	6,545.14	6,544.74
TMW-83				64.11	65.52	64.41	64.20	64.21	64.38	64.21	64.10	64.35	64.55	64.55	64.35
TMW-83	150,307.20	326,379.40	6,658.87	6,594.76	6,593.35	6,594.46	6,594.67	6,594.66	6,594.49	6,594.66	6,594.77	6,594.52	6,594.32	6,594.32	6,594.52
TMW-84				115.90	120.00	115.74	115.90	116.10	116.00	116.30	116.10	116.00	116.20	116.00	116.40
TMW-84	150,506.27	326,376.61	6,661.86	6,545.96	6,541.86	6,546.12	6,545.96	6,545.76	6,545.86	6,545.56	6,545.76	6,545.86	6,545.66	6,545.86	6,545.46
TMW-87				102.05	90.13	115.31	115.31	90.40	90.40	90.15	90.10	90.22	90.20	90.10	99.20
TMW-87	150,200.92	325,789.12	6,660.60	6,660.60	6,558.55	6,570.47	6,545.29	6,570.20	6,570.20	6,570.45	6,570.50	6,570.38	6,570.40	6,570.50	6,561.40
TMW-89				114.70	115.28	114.50	114.45	114.75	114.58	114.90	114.88	114.70	115.20	114.95	114.95
TMW-89	150,809.67	326,137.13	6,660.75	6,546.05	6,545.47	6,546.25	6,546.30	6,546.00	6,546.17	6,545.85	6,545.87	6,546.05	6,545.55	6,545.80	6,545.80
TMW-91				102.85	102.60	98.08	103.20	103.68	104.09	105.10	104.41	104.25	104.30	103.40	103.40
TMW-91	148,518.42	323,956.85	6,639.61	6,541.54	6,541.79	6,546.31	6,541.19	6,540.71	6,540.30	6,539.29	6,539.98	6,540.14	6,540.09	6,540.99	6,540.99
TMW-92				103.04	103.00	103.78	104.00	104.10	104.50	104.70	104.70	104.60	104.75	103.70	103.85
TMW-92	148,504.47	323,951.33	6,640.15	6,541.67	6,541.71	6,540.93	6,540.71	6,540.61	6,540.21	6,540.01	6,540.01	6,540.11	6,539.96	6,541.01	6,540.86
TMW-93				99.50	99.63	99.50	99.89	100.01	100.65	100.70	100.88	100.62	100.20	100.00	100.00
TMW-93	148,399.92	324,099.96	6,641.02	6,541.52	6,541.39	6,541.52	6,541.13	6,541.01	6,540.37	6,540.32	6,540.14	6,540.40	6,540.82	6,541.02	6,541.02
TMW-94				99.46	99.03	99.30	99.89	100.05	100.70	100.60	100.70	100.75	100.80	99.90	101.00
TMW-94	148,400.13	324,000.02	6,640.53	6,541.07	6,541.50	6,541.23	6,540.64	6,540.48	6,539.83	6,539.93	6,539.83	6,539.78	6,539.73	6,540.63	6,539.53
TMW-95				99.60	99.80	99.60	99.23	100.80	101.00	100.70	101.00	101.16	101.00	101.10	100.40
TMW-95	148,399.94	323,900.08	6,640.57	6,540.97	6,540.77	6,540.97	6,541.34	6,539.77	6,539.57	6,539.87	6,539.57	6,539.47	6,539.57	6,539.47	6,540.17
TMW-96				98.64	98.64	99.44	99.60	102.55	103.30	103.40	103.10	103.15	102.65	98.80	99.20
TMW-96	148,500.01	323,820.25	6,640.36	6,541.47	6,541.47	6,540.67	6,540.51	6,537.56	6,536.81	6,536.71	6,537.01	6,536.96	6,537.46	6,541.31	6,540.91
TMW-97				100.04	100.20	102.29	102.40	102.42	104.10	104.20	104.18	104.18	104.30	100.03	100.50
TMW-97	148,599.86	323,805.93	6,641.54	6,541.27	6,541.11	6,539.02	6,538.91	6,538.89	6,537.21	6,537.11	6,537.13	6,537.13	6,537.01	6,541.28	6,540.81
TMW-98				99.48	99.00	99.90	99.80	99.82	100.30	100.35	100.45	100.35	100.45	99.90	100.05
TMW-98	148,699.84	323,822.69	6,643.60	6,541.43	6,541.91	6,541.01	6,541.11	6,541.09	6,540.61	6,540.56	6,540.46	6,540.56	6,540.46	6,541.01	6,540.86
TMW-99				99.01	99.82	99.02	99.50	99.75	100.38	100.40	100.80	100.50	100.20	99.70	99.50
TMW-99	148,707.32	323,908.85	6,643.84	6,541.48	6,540.67	6,541.47	6,540.99	6,540.74	6,540.11	6,540.09	6,539.69	6,539.99	6,540.29	6,540.79	6,540.99
TMW-100				99.30	99.60	102.31	101.58	99.78	101.60	100.48	100.44	100.05	100.30	99.89	99.90
TMW-100	148,799.77	324,016.92	6,639.85	6,543.90	6,543.60	6,540.89	6,541.62	6,543.42	6,541.60	6,542.72	6,542.76	6,543.15	6,542.90	6,543.31	6,543.30
TMW-101				102.40	102.40	102.31	102.80	103.10	103.81	103.45	103.70	103.40	103.70	102.90	103.10
TMW-101	148,800.10	324,100.06	6,641.64	6,541.46	6,541.46	6,541.55	6,541.06	6,540.76	6,540.05	6,540.41	6,540.16	6,540.46	6,540.16	6,540.96	6,540.76
TMW-102				103.27	103.29	101.51	108.20	104.80	106.53	104.30	105.40	104.55	104.40	105.20	104.00
TMW-102	148,600.02	323,968.63	6,639.74	6,540.96	6,540.94	6,542.72	6,536.03	6,539.43	6,537.70	6,539.93	6,538.83	6,539.68	6,539.83	6,539.03	6,540.23
TMW-103				101.10	101.10	102.00	101.00	101.05	101.08	101.10	101.25	103.05	101.85	101.60	101.60
TMW-103	149,144.44	323,576.50	6,642.87	6,541.77	6,541.77	6,540.87	6,541.87	6,541.82	6,541.79	6,541.77	6,541.62	6,539.82	6,541.02	6,541.27	6,541.27
TMW-104				102.08	103.60	100.60	102.61	102.75	103.30	103.50	103.48	103.00	103.30	102.90	102.80
TMW-104	148,508.55	324,122.60	6,639.71	6,541.86	6,540.34	6,543.34	6,541.33	6,541.19	6,540.64	6,540.44	6,540.46	6,540.94	6,540.64	6,541.04	6,541.14
TMW-106				100.46	100.49	98.10	107.70	101.00	100.65	100.58	100.70	100.70	100.00	101.00	100.90
TMW-106	149,120.61	323,577.45	6,642.25	6,541.79	6,541.76	6,544.15	6,534.55	6,541.25	6,541.60	6,541.67	6,541.55	6,541.55	6,542.25	6,541.25	6,541.35
TMW-107				97.44	98.33	99.70	98.50								

KENNECOTT URANIUM COMPANY
Groundwater Elevations

			Revised 11/96												
Well			Measuring												
No.	Northing	Easting	Point Elev.	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
TMW-109				99.99	99.42	97.91	100.03	99.95	100.00	100.35	100.61	100.25	100.45	100.20	100.30
TMW-109	148,563.38	323,651.83	6,641.21	6,541.22	6,541.79	6,543.30	6,541.18	6,541.26	6,541.21	6,540.86	6,540.60	6,540.96	6,540.76	6,541.01	6,540.91
TMW-110				97.37	97.03	101.92	98.40	97.89	97.75	98.31	98.00	98.00	98.30	98.00	98.00
TMW-110	148,088.65	323,625.57	6,638.71	6,541.34	6,541.68	6,536.79	6,540.31	6,540.82	6,540.96	6,540.40	6,540.71	6,540.71	6,540.41	6,540.71	6,540.71
TMW-111				102.39	103.01	101.14	102.80	102.82	103.69	103.32	103.53	103.60	103.50	103.10	103.00
TMW-111	148,800.06	324,188.03	6,643.95	6,542.00	6,541.38	6,543.25	6,541.59	6,541.57	6,540.70	6,541.07	6,540.86	6,540.79	6,540.89	6,541.29	6,541.39
TMW-112				103.60	99.80	102.20	104.58	104.10	104.65	104.90	104.80	104.60	104.65	104.40	104.25
TMW-112	148,700.09	324,188.95	6,643.24	6,541.98	6,545.78	6,543.38	6,541.00	6,541.48	6,540.93	6,540.68	6,540.78	6,540.98	6,540.93	6,541.18	6,541.33
TMW-113				102.59	102.03	103.14	103.70	103.15	103.80	103.68	103.90	103.60	103.75	103.25	103.15
TMW-113	148,600.06	324,192.45	6,643.51	6,541.78	6,542.34	6,541.23	6,540.67	6,541.22	6,540.57	6,540.69	6,540.47	6,540.77	6,540.62	6,541.12	6,541.22
TMW-115				102.25	102.00	103.45	103.10	103.00	103.26	103.30	103.50	103.00	103.40	102.95	103.00
TMW-115	148,499.96	324,199.79	6,642.92	6,540.32	6,540.57	6,539.12	6,539.47	6,539.57	6,539.31	6,539.27	6,539.07	6,539.57	6,539.17	6,539.62	6,539.57
M-1				147.41	147.30	147.70	148.00	148.75	147.90	148.10	107.95	148.00	147.95	148.00	148.00
M-1	159,190.56	323,580.63	6,711.30	6,563.89	6,564.00	6,563.60	6,563.30	6,562.55	6,563.40	6,563.20	6,603.35	6,563.30	6,563.35	6,563.30	6,563.30
M-2				66.06	66.26	66.42	80.52	66.15	60.10	66.85	66.40	66.25	66.30	67.35	66.40
M-2	145,731.13	317,919.02	6,607.29	6,541.23	6,541.03	6,540.87	6,526.77	6,541.14	6,547.19	6,540.44	6,540.89	6,541.04	6,540.99	6,539.94	6,540.89
PWW-1				100.40	100.00	100.20	102.00	101.00	100.10	100.30	100.40	101.00	100.00	100.20	100.30
PWW-1	149,023.15	323,779.27	6,643.08	6,542.68	6,543.08	6,542.88	6,541.08	6,542.08	6,542.98	6,542.78	6,542.68	6,542.08	6,543.08	6,542.88	6,542.78
PWW-2															
PWW-2	148,877.54	324,180.69	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85	6,646.85
MAC-1															118.15
MAC-1	151,067.49	326,075.57	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,663.46	6,545.31
MAC-2															113.20
MAC-2	149,059.70	327,566.36	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,658.49	6,545.29
MAC-3															110.30
MAC-3	150,510.10	321,513.33	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,650.75	6,540.45
MAC-4															95.30
MAC-4	148,949.17	322,282.40	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,635.68	6,540.38
MAC-5															
MAC-5	148,834.65	323,313.61	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17	6,642.17
MAC-6															102.40
MAC-6	149,429.94	322,701.41	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,642.92	6,540.52
MAC-7															96.70
MAC-7	148,599.15	322,911.14	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,637.18	6,540.48
DAC-2															
DAC-2	145,973.18	322,955.31	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52	6,620.52
DAC-4															
DAC-4	146,685.97	319,513.71	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20	6,618.20

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
04/25/83	0	6425.00	0.00
06/27/83	63	6440.00	15.00
07/04/83	70	6441.70	16.70
08/03/83	100	6450.00	25.00
01/16/84	266	6475.00	50.00
02/27/84	308	6481.00	56.00
05/07/84	378	6486.10	61.10
06/26/84	428	6488.60	63.60
08/28/84	491	6491.50	66.50
10/01/84	525	6492.80	67.80
11/19/84	574	6494.60	69.60
01/03/85	619	6497.30	72.30
02/26/85	673	6500.00	75.00
03/06/85	681	6500.40	75.40
05/14/85	750	6502.90	77.90
08/15/85	843	6505.39	80.39
04/14/86	1085	6513.19	88.19
06/23/86	1155	6514.87	89.87
09/26/86	1250	6515.93	90.93
04/14/87	1450	6520.42	95.42
06/23/87	1520	6521.80	96.80
09/16/87	1605	6522.33	97.33
11/01/87	1651	6523.41	98.41
11/19/87	1669	6523.41	98.41
03/08/88	1779	6525.00	100.00
06/06/88	1869	6526.31	101.31
07/25/88	1918	6526.54	101.54
08/30/88	1954	6526.55	101.55
10/10/88	1995	6526.88	101.88
10/31/88	2016	6526.88	101.88
04/03/89	2170	6529.29	104.29
07/24/89	2282	6529.77	104.77
08/28/89	2317	6529.51	104.51
09/25/89	2345	6529.63	104.63
04/23/90	2555	6531.67	106.67
06/11/90	2604	6531.48	106.48
07/02/90	2625	6531.99	106.99
10/08/90	2723	6532.02	107.02
11/11/90	2757	6531.98	106.98
04/17/91	2914	6531.44	106.44
07/02/91	2990	6533.64	108.64
08/14/91	3033	6534.17	109.17
09/05/91	3055	6533.49	108.49
10/07/91	3087	6533.36	108.36
12/10/91	3151	6533.84	108.84
04/29/92	3292	6535.24	110.24
05/26/92	3319	6534.96	109.96
09/14/92	3430	6533.70	108.70
11/05/92	3482	6535.34	110.34
05/04/93	3662	6536.93	111.93
06/30/93	3719	6536.51	111.51
08/18/93	3768	6536.55	111.55
10/11/93	3822	6536.38	111.38
06/06/94	4060	6537.20	112.20
07/05/94	4089	6537.69	112.69
09/21/94	4167	6536.90	111.90
10/10/94	4186	6536.80	111.80
04/05/95	4363	6538.23	113.23
05/01/95	4389	6538.37	113.37
06/10/95	4429	6538.86	113.86

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
07/06/95	4455	6538.78	113.78
08/02/95	4482	6538.57	113.57
09/07/95	4518	6538.31	113.31
10/03/95	4544	6538.24	113.24
11/02/95	4574	6538.21	113.21
05/13/96	4767	6539.40	114.40
08/09/96	4855	6538.90	113.90
09/03/96	4880	6538.70	113.70
10/03/96	4910	6538.50	113.50
10/08/96	4915	6538.60	113.60
12/03/96	4971	6538.66	113.66
03/31/97	5089	6539.44	114.44
04/25/97	5114	6539.43	114.43
05/29/97	5148	6539.55	114.55
06/11/97	5161	6539.70	114.70
07/28/97	5208	6539.30	114.30
09/01/97	5243	6539.20	114.20
09/22/97	5264	6539.16	114.16
10/15/97	5287	6539.01	114.01
11/25/97	5328	6539.00	114.00
12/03/97	5336	6538.99	113.99
05/04/98	5488	6540.25	115.25
05/18/98	5502	6540.40	115.40
06/11/98	5526	6540.38	115.38
07/01/98	5546	6540.40	115.40
07/29/98	5574	6540.26	115.26
08/20/98	5596	6540.10	115.10
09/29/98	5636	6539.92	114.92
10/06/98	5643	6539.84	114.84
11/05/98	5673	6539.80	114.80
11/10/98	5678	6539.78	114.78
11/30/98	5698	6539.72	114.72
12/03/98	5701	6539.72	114.72
12/16/98	5714	6539.71	114.71
03/31/99	5819	6540.43	115.43
04/02/99	5821	6540.40	115.40
04/28/99	5847	6540.56	115.56
05/22/99	5871	6540.70	115.70
06/09/99	5889	6540.72	115.72
06/27/99	5907	6540.64	115.64
07/19/99	5929	6540.41	115.41
08/08/99	5949	6540.32	115.32
08/29/99	5970	6540.17	115.17
09/08/99	5980	6540.12	115.12
09/19/99	5991	6540.01	115.01
10/21/99	6023	6539.82	114.82
10/27/99	6029	6539.80	114.80
11/10/99	6043	6539.76	114.76
11/17/99	6050	6539.81	114.81
11/22/99	6055	6539.76	114.76
12/06/99	6069	6539.76	114.76
12/14/99	6077	6539.76	114.76
12/23/99	6086	6539.67	114.67
04/28/00	6213	6540.15	115.15
05/03/00	6218	6540.82	115.82
05/26/00	6241	6540.17	115.17
06/01/00	6247	6540.12	115.12
06/30/00	6276	6539.79	114.79
07/17/00	6293	6539.54	114.54
07/30/00	6306	6539.37	114.37
08/10/00	6317	6539.24	114.24

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
06/17/00	6263	6539.18	114.18
08/28/00	6335	6539.03	114.03
08/30/00	6337	6539.04	114.04
09/03/00	6341	6539.03	114.03
09/17/00	6355	6538.88	113.88
10/04/00	6372	6538.86	113.86
10/22/00	6390	6538.83	113.83
11/13/00	6412	6538.75	113.75
04/05/01	6555	6540.07	115.07
04/16/01	6566	6540.13	115.13
04/24/01	6574	6540.30	115.30
05/10/01	6590	6540.22	115.22
05/16/01	6596	6540.20	115.20
06/21/01	6632	6539.89	114.89
07/02/01	6643	6539.83	114.83
07/03/01	6644	6539.84	114.84
07/16/01	6657	6539.78	114.78
07/20/01	6661	6539.68	114.68
08/21/01	6693	6539.35	114.35
09/06/01	6709	6539.22	114.22
09/26/01	6729	6539.11	114.11
10/18/01	6751	6538.98	113.98
11/05/01	6769	6538.84	113.84
11/11/01	6775	6538.90	113.90
11/27/01	6791	6538.98	113.98
12/03/01	6797	6538.98	113.98
03/31/02	6915	6539.75	114.75
04/04/02	6919	6539.75	114.75
04/08/02	6923	6539.77	114.77
04/15/02	6930	6539.77	114.77
04/29/02	6944	6539.82	114.82
05/16/02	6961	6539.76	114.76
05/28/02	6973	6539.74	114.74
06/27/02	7003	6539.53	114.53
07/03/02	7009	6539.44	114.44
07/08/02	7014	6539.40	114.40
07/09/02	7015	6539.40	114.40
07/17/02	7023	6539.28	114.28
07/29/02	7035	6539.13	114.13
08/06/02	7043	6539.07	114.07
09/03/02	7071	6538.51	113.51
09/29/02	7097	6538.63	113.63
10/09/02	7107	6538.65	113.65
10/14/02	7112	6538.61	113.61
11/06/02	7135	6538.43	113.43
03/16/03	7265	6539.42	114.42
04/21/03	7301	6539.54	114.54
05/29/03	7339	6539.61	114.61
06/17/03	7358	6539.49	114.49
06/26/03	7367	6539.55	114.55
07/16/03	7387	6539.34	114.34
07/17/03	7388	6539.33	114.33
08/31/03	7433	6538.91	113.91
09/30/03	7463	6538.74	113.74
10/07/03	7470	6538.75	113.75
10/20/03	7483	6538.63	113.63
11/16/03	7510	6538.49	113.49
12/03/03	7527	6538.57	113.57
03/21/04	7636	6539.65	114.65
03/24/04	7639	6539.65	114.65
03/28/04	7643	6539.75	114.75

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
04/05/04	7651	6539.65	114.65
04/18/04	7664	6539.80	114.80
05/20/04	7696	6539.84	114.84
06/15/04	7722	6539.70	114.70
06/21/04	7728	6539.73	114.73
07/04/04	7741	6539.76	114.76
07/07/04	7744	6539.70	114.70
07/26/04	7763	6539.52	114.52
08/10/04	7778	6539.40	114.40
08/24/04	7792	6539.26	114.26
09/13/04	7812	6539.26	114.26
09/20/04	7819	6539.17	114.17
10/04/04	7833	6539.15	114.15
11/07/04	7867	6539.16	114.16
11/11/04	7871	6539.18	114.18
11/22/04	7882	6539.20	114.20
12/13/04	7903	6539.21	114.21
03/16/05	7996	6539.78	114.78
03/27/05	8007	6539.82	114.82
04/05/05	8016	6539.82	114.82
05/18/05	8059	6539.95	114.95
06/08/05	8080	6539.82	114.82
06/25/05	8097	6539.70	114.70
07/06/05	8108	6539.58	114.58
07/18/05	8120	6539.47	114.47
08/17/05	8150	6539.18	114.18
09/19/05	8183	6538.90	113.90
10/17/05	8211	6538.86	113.86
04/02/06	8378	6539.37	114.37
04/03/06	8379	6539.27	114.27
04/12/06	8388	6539.45	114.45
04/18/06	8394	6539.45	114.45
05/10/06	8416	6539.40	114.40
06/19/06	8456	6539.14	114.14
07/12/06	8479	6538.94	113.94
07/26/06	8493	6538.84	113.84
08/30/06	8528	6538.50	113.50
09/13/06	8542	6538.40	113.40
10/08/06	8567	6538.26	113.26
03/26/07	8736	6539.18	114.18
04/30/07	8771	6539.26	114.26
05/31/07	8802	6539.20	114.20
06/26/07	8828	6539.06	114.06
07/25/07	8857	6538.85	113.85
08/30/07	8893	6538.66	113.66
09/11/07	8905	6538.59	113.59
10/03/07	8927	6538.45	113.45
10/15/07	8939	6538.39	113.39
04/01/08	9108	6539.11	114.11
05/30/08	9167	6539.21	114.21
06/04/08	9172	6539.09	114.09
06/27/08	9195	6538.97	113.97
07/31/08	9229	6538.73	113.73
08/19/08	9248	6538.38	113.38
09/08/08	9268	6538.26	113.26
10/20/08	9310	6538.17	113.17
03/31/09	9472	6539.26	114.26
04/20/09	9492	6539.07	114.07
05/27/09	9529	6539.21	114.21
06/16/09	9549	6539.29	114.29

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

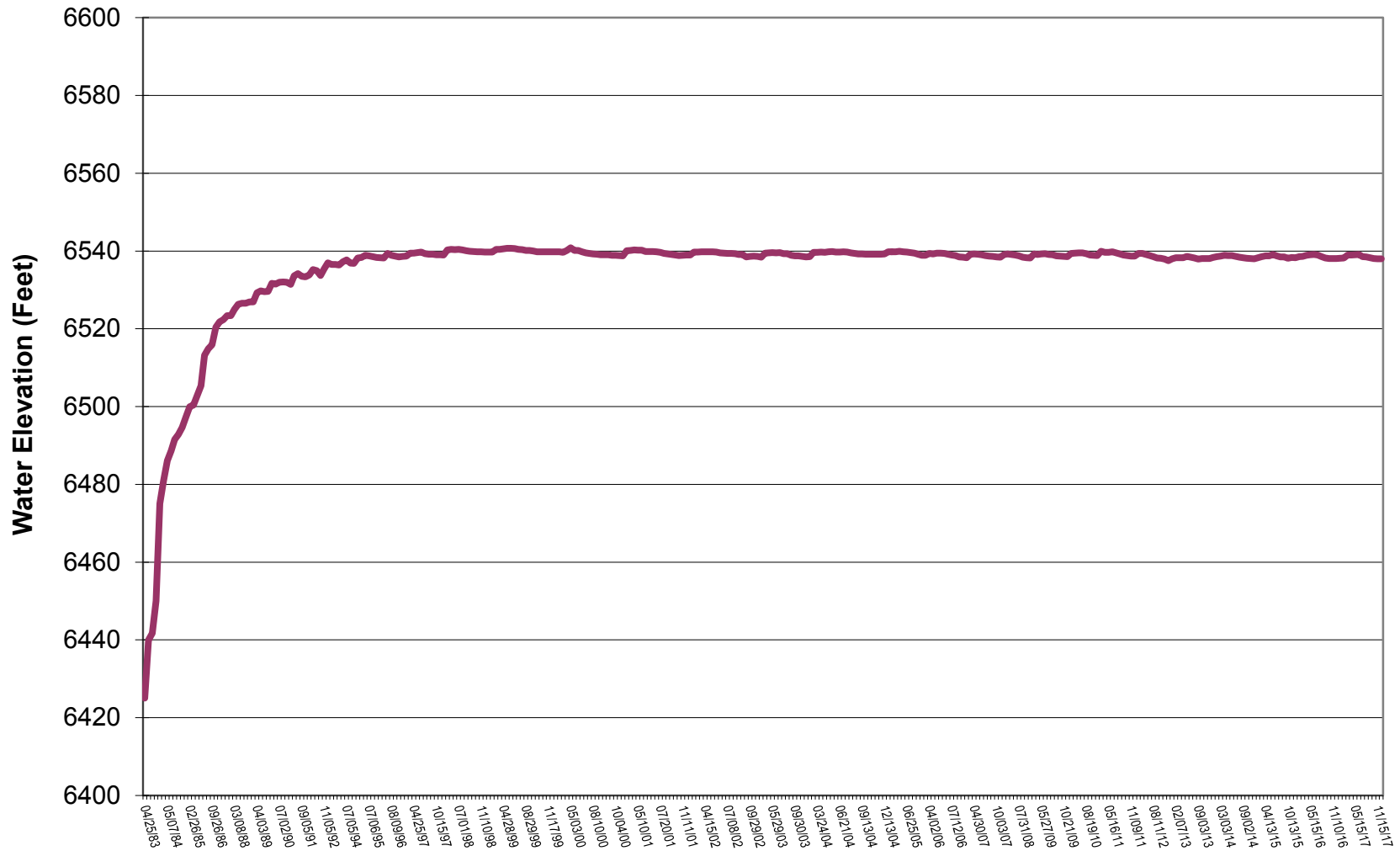
DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
07/16/09	9579	6539.13	114.13
08/12/09	9606	6539.04	114.04
09/09/09	9634	6538.78	113.78
09/23/09	9648	6538.67	113.67
10/21/09	9676	6538.63	113.63
11/09/09	9695	6538.56	113.56
04/20/10	9857	6539.40	114.40
05/27/10	9894	6539.48	114.48
06/10/10	9908	6539.51	114.51
07/09/10	9937	6539.53	114.53
08/19/10	9978	6539.29	114.29
09/14/10	10004	6538.98	113.98
10/13/10	10033	6538.90	113.90
11/02/10	10053	6538.79	113.79
12/06/10	10087	6539.93	114.93
04/12/11	10214	6539.64	114.64
05/16/11	10248	6539.66	114.66
06/07/11	10270	6539.77	114.77
07/21/11	10314	6539.50	114.50
08/16/11	10340	6539.27	114.27
09/15/11	10370	6538.96	113.96
10/10/11	10395	6538.85	113.85
11/09/11	10425	6538.70	113.70
12/06/11	10452	6538.70	113.70
04/22/12	10590	6539.40	114.40
05/02/12	10600	6539.36	114.36
06/05/12	10634	6539.09	114.09
07/03/12	10662	6538.80	113.80
08/11/12	10701	6538.55	113.55
09/11/12	10732	6538.21	113.21
10/01/12	10752	6538.11	113.11
11/28/12	10810	6537.94	112.94
12/17/12	10829	6537.52	112.52
01/02/13	10845	6538.02	113.02
02/07/13	10881	6538.28	113.28
03/12/13	10914	6538.28	113.28
04/03/13	10936	6538.28	113.28
06/10/13	11004	6538.61	113.61
07/02/13	11026	6538.38	113.38
08/01/13	11056	6538.19	113.19
09/03/13	11089	6537.93	112.93
10/07/13	11123	6538.07	113.07
11/04/13	11151	6538.03	113.03
12/02/13	11179	6538.04	113.04
01/14/14	11222	6538.37	113.37
02/11/14	11250	6538.57	113.57
03/03/14	11270	6538.70	113.70
04/01/14	11299	6538.88	113.88
05/12/14	11340	6538.84	113.84
06/02/14	11361	6538.85	113.85
07/02/14	11391	6538.61	113.61
08/05/14	11425	6538.40	113.40
09/02/14	11453	6538.26	113.26
10/06/14	11487	6538.13	113.13
11/06/14	11518	6538.06	113.06
12/08/14	11550	6538.01	113.01
01/14/15	11587	6538.26	113.26
03/02/15	11634	6538.57	113.57
04/13/15	11676	6538.72	113.72
05/05/15	11698	6538.78	113.78
06/01/15	11725	6539.07	114.07

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
Recovery of water level after suspension of dewatering
activities in May, 1983

DATE	ELAPSED TIME DAYS	WATER ELEVATION	WATER LEVEL CHANGE
07/21/15	11775	6538.78	113.78
08/12/15	11797	6538.46	113.46
09/01/15	11817	6538.46	113.46
10/13/15	11859	6538.16	113.16
12/15/15	11922	6538.31	113.31
01/15/16	11953	6538.27	113.27
02/15/16	11984	6538.53	113.53
03/15/16	12013	6538.62	113.62
04/15/16	12044	6538.90	113.90
05/15/16	12074	6539.02	114.02
06/15/16	12105	6539.13	114.13
07/15/16	12135	6538.97	113.97
08/15/16	12166	6538.53	113.53
09/15/16	12197	6538.20	113.20
10/12/16	12224	6538.07	113.07
11/10/16	12253	6538.07	113.07
12/15/16	12288	6538.06	113.06
01/15/17	12319	6538.12	113.12
02/15/17	12350	6538.22	113.22
03/15/17	12378	6538.95	113.95
04/15/17	12409	6538.99	113.99
05/15/17	12439	6539.02	114.02
06/15/17	12470	6539.08	114.08
07/15/17	12500	6538.56	113.56
08/15/17	12531	6538.47	113.47
09/15/17	12562	6538.25	113.25
10/15/17	12592	6538.07	113.07
11/15/17	12623	6537.97	112.97
12/15/17	12653	6537.97	112.97

*Blue color is updated levels with yearly QA/QC PVC Survey

KENNECOTT URANIUM COMPANY
Sweetwater Pit Water Levels
April 25, 1983 through December 12, 2016



KENNECOTT URANIUM COMPANY PIT LAKE																			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/9/2005	4/5/2005	4/11/2005	6/7/2005	8/3/2005	11/8/2005	4/10/2006	6/6/2006	8/28/2006	10/7/2006	4/18/2007	6/3/2007	8/16/2007	10/3/2007	4/21/2008	6/4/2008	8/25/2008	10/29/2008
TDS A/C Balance (dec. %)		1.06	1.01	1	1.01	1.04	0.98	0.98	1	0.9	1	0.96	0.98	0.94	1.12	2.62	2.96	1.01	2.44
Alk-CaCO3		99	102	94	96	88	98	99	94	90	89	100	98	98	96	93	88	92	94
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		121	125	115	117	107	117	120	115	109	106	122	120	119	117	114	107	112	115
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		113	116	96	110	112	109	119	109	111	114	113	116	120	99.6	122	117	117	117
Carbonate (CO3)		<1	<1	<1	<1	<1	1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		16	20	17	20	19	20	19	20	47	18	19	19	18	21	19	13	19	16
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		971	968	986	962	1000	993	968	985	1060	1000	1030	1120	1040	1080	1000	1050	1040	1060
Cond-Field (umhos/cm)				660	700	800	660	650	918	1014	982	969	989	1023	962	904	978	1042	980
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.2	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.3	0.4
Gross Alpha (pCi/L)	GPS (15)	2	<1	3.1	1.2	2.7	2.8	2.3	2.7	2.4	3.2	1.7	7.7	13	12.9	15.8	3.7	7.8	4.9
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	ND	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-3.8	1.7	4.4	<1
Lead (Pb)		<0.03	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		10.1	10.1	8.8	10.1	10.4	10.3	10.7	10.9	10	10.7	10.7	10.9	11.2	8.9	11.3	11.1	10.6	10.6
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.08	<0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.19	8.24	8.06	8.26	8.24	8.33	7.44	7.56	8.23	8.34	8.06	8.16	8.2	7.92	8.19	8.11	8.19	8.07
pH (Field) (Std. Units)				7.7	8	7.8	8.27	8.39	8.21	8.23	8.13	7.83	8.09	8	8.1	7.7	7.8	8.2	7.5
Potassium (K)		6.2	6.3	6.4	5.9	6.3	6.4	6.2	6.9	6	6.5	6.6	6.6	6.7	7.2	6.5	7	6.5	7.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.4	1.2	4.4	2.5	1.8	3.2	1.5	9.6	3.3	4.5	1.1	3.6	2.1	4.4	3.4	0.8	3.3	3.3
Radium 226 (pCi/L)		1.8	1.2	2.3	2.5	1.8	2	1.5	1.5	3.3	2.4	1.1	3.6	2.1	1.8	2.4	-0.2	2.5	2.4
Radium 228 (pCi/L)		2.6	<1	2.1	<1	<1	1.2	<1	2.2	<1	2.1	<1	<1	<1	2.6	1	0.8	0.8	0.9
Radon 222 (pCi/L)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Se)	GPS (.01)	0.009	0.01	0.01	0.009	0.01	0.009	0.01	0.01	0.01	0.01	0.01	0.01	0.011	0.01	0.009	0.009	0.01	0.01
Silica (SiO2)		<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		93.1	91.9	81.1	91.8	89.2	92.1	83.4	91.9	89	96.1	95.4	95.3	99.5	90.8	97.6	103	97	102
TDS @ 180° C.	GPS (500)	716	690	637	672	692	670	676	680	644	694	680	700	694	750	708	737	737	761
Sulfate (SO4)		376	374	367	372	372	386	394	386	401	398	403	407	425	382	404	415	409	407
Temperature (C)				8	14	26	8.2	7.6	25.1	22.5	15	10.2	15.6	20.2	13.5	7.9	12	20.6	15.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Uranium, natural (pCi/L)	GPS (36)	2850	2650	3090	2960	2920	3010	2720	3000	3050	2010	3040	2990	2920	2990	3120	3080	3190	3135
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY																				
PIT LAKE				2014					2015					2016				2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	8/6/2013	10/1/2013	4/14/2014	6/4/2014	8/12/2014	9/29/2014	10/20/2014	4/15/2015	6/8/2015	8/11/2015	11/3/2015	4/21/2016	6/8/2016	7/5/2016	10/10/2016	4/4/2017	6/13/2017	8/7/2017	10/9/2017
TDS A/C Balance (dec. %)		1.87	-4.73	1.49	0.99	1.51	3.63	1.84	2.4	1.28	1.59	0.11	1.38		3.15	1.06	2.67	1.53	0.52	5.1
Alk-CaCO3		93	93	94	93	92	91	90	89	93	85	84	83		92	86	89	88	90	87
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	ND	ND
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	ND	ND	ND	ND
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND	ND	ND
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	ND	ND
Bicarbonate (HCO3)		114	113	114	113	113	111	110	109	113	104		102	110	112	105	109	108	110	106
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		122	110	117	122	116	118	114	109	117	123	120	119	116	122	119	118	118	120	109
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		20	20	20	22	22	22	23	22	22	22	21	21	21	22	22	23	22	23	23
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1120	1090	1090	1100	1120	1120	1120	1120	1120	1160	1130	1130	1120	1140	1150	1180	1160	1170	1160
Cond-Field (umhos/cm)		1177	1146	1185	1102	1127	1130	1144	1137	1191	1128	1163	1201	1213	1346	1230	1224	1215	1225	1211
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4
Gross Alpha (pCi/L)	GPS (15)	2.9	2	2.8	2.1	2.1	2.9	3.2	8.8	3.2	3.1	8.1	3.7	3.8	3.9	17.8	3	3.2	3.1	4.9
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	0.7	-0.4	-0.3	-0.04	-0.4	<1	<1	<1	<1	<1	0.4	-0.2	0.6	-4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.56	3.3	-0.2	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		11.6	10	11.4	12	11.3	11.3	11.1	11	11.3	11.6	11.7	11.8	17.2	11.7	12	10.9	11.5	12.2	11.3
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.27	8.13	8.13	8.12	8.27	8.21	8.17	8.03	8.1	8.27	8.06	8.22	8.02	8.15	8.21	8.14	8.29	8.28	8.07
pH (Field) (Std. Units)		8.4	8.44	8.8	7	8.3	8.39	8.24	8.17	8.45	8.4	8.3	8.11	5.74	6.98	8.46	8.12	9.46	6.92	8.29
Potassium (K)		7.6	7.6	7.5	7.2	7.6	7.5	7.2	6.9	7.1	7.6	7.3	7.5	7.5	7.5	7.8	7.7	7.5	7.3	7
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.2	2.7	2.7	3.1	2.7	3.4	3.7	3.3	2.5	2.7	3.8	3.3	3.7	4.1	3.5	3.1	3.1	4.8	4.1
Radium 226 (pCi/L)		1.9	2	1.9	2.6	2	2.1	2.1	2	2	2.1	2.5	2.3	2.5	2.1	2.5	1.8	2.8	2.6	2.2
Radium 228 (pCi/L)		0.3	0.7	0.8	0.5	0.7	1.3	1.6	1.3	0.5	0.6	1.3	1	1.2	2	1	1.3	0.3	2.2	1.9
Radon 222 (pCi/L)		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium (Se)	GPS (.01)	0.008	0.008	0.007	0.008	0.008	0.007	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.007	0.007	0.008	0.007	0.006
Silica (SiO2)		0.9	0.8	1.1	1	0.8	1	1.2	1.2	1.1	1	1.3	1	1.9	0.9	0.6	<0.2	0.2	0.3	0.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		114	114	113	117	114	110	110	103	109	110	111	115	112	112	118	113	114	121	110
TDS @ 180° C.	GPS (500)	826	818	797	793	818	814	809	809	813	824	820					806	836	858	818
Sulfate (SO4)		448	469	436	462	469	491	459	439	456	484	464	456	425	427	487	484	478	460	487
Temperature (C)		19.3	15.3	9.1	15.2	18.2	18.1	14.2	7.5	18.3	19.3	12.4	10.8	17.7	20	15.7	7.9	15.7	19.3	11.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	0.2	<0.2	-0.006	0.1	0.08	0.05	0.05	0.06	0.1	0.02	0.1	-0.01	-0.05	0.1	0.007	0.03
Uranium, natural (pCi/L)	GPS (36)	3260	3120	2970	3190	3120	2950	2970	2810	3100	2830	2950	3040	2960	3000	3060	3000	2950	3180	2970
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01

Tailings Impoundment Fluid Levels

	WATER
	LEVEL
DATE	OF POND
	(Ft)
04/14/87	6639.52
04/27/87	6639.20
05/05/87	6638.95
05/11/87	6638.84
06/23/87	6638.32
07/06/87	6637.95
07/13/87	6637.98
08/03/87	6637.31
08/24/87	6636.96
08/30/87	6637.13
09/08/87	6637.05
09/21/87	6636.66
09/30/87	6636.51
10/12/87	6636.12
11/19/87	6636.32
06/07/88	6635.04
06/13/88	6635.16
06/28/88	6634.62
07/11/88	6634.14
07/25/88	6633.70
08/01/88	6633.44
08/08/88	6633.27
08/22/88	6633.02
08/30/88	6632.91
09/05/88	6632.50
09/30/88	6632.40
10/10/88	6632.37
10/31/88	6632.03
04/03/89	6632.45
04/17/89	6632.54
05/01/89	6631.88
06/01/89	6631.52
06/19/89	6630.83
06/26/89	6630.87
07/14/89	6630.49
07/24/89	6630.16
08/22/89	6629.60
08/28/89	6629.54
09/25/89	6629.02
11/20/89	6628.96
03/29/90	6629.27
04/10/90	6630.45
04/23/90	6629.67
05/02/90	6629.54
06/11/90	6628.71
07/02/90	6629.29
07/24/90	6628.83
10/08/90	6627.85
11/11/90	6626.58
04/07/91	6627.70
07/02/91	6626.55
08/14/91	6625.90
09/05/91	6625.06
10/07/91	6624.55
04/28/92	6626.10
05/26/92	6625.30
09/14/92	6623.62
11/05/92	6622.20
05/04/93	6623.58
06/30/93	6623.33
08/18/93	6621.25
10/11/93	6621.05
06/06/94	6620.90
07/05/94	6620.70
09/21/94	6619.40
10/10/94	6618.90
04/05/95	6620.20
05/01/95	6620.30
06/28/95	6621.10
07/31/95	6620.34
09/01/95	6619.42
10/03/95	6619.15

Tailings Impoundment Fluid Levels

	WATER
	LEVEL
DATE	OF POND
	(Ft)
05/13/96	6620.60
06/14/96	6620.90
08/09/96	6618.80
09/11/96	6618.20
10/03/96	6617.90
04/18/97	6619.40
05/29/97	6621.00
06/11/97	6619.00
06/25/97	6618.54
07/02/97	6618.22
07/09/97	6617.97
07/16/97	6617.80
07/30/97	6617.25
08/04/97	6617.36
08/11/97	6617.30
08/18/97	6617.66
08/26/97	6617.55
09/02/97	6617.40
09/08/97	6617.17
09/18/97	6616.93
09/29/97	6617.06
10/09/97	6616.90
10/16/97	6616.80
05/14/98	6619.12
06/22/98	6618.55
07/01/98	6618.30
07/14/98	6617.76
07/27/98	6617.84
08/11/98	6617.30
09/14/98	6616.55
03/17/99	6617.90
*04/19/99	6620.15
04/27/99	6620.39
05/20/99	6620.65
05/27/99	6620.45
06/03/99	6620.15
06/17/99	6619.35
06/30/99	6618.55
07/08/99	6618.02
07/27/99	6616.96
*07/28/99	6617.09
08/11/99	6616.64
08/23/99	6615.93
09/15/99	6615.42
09/23/99	6615.38
09/29/99	6615.38
10/06/99	6615.19
10/22/99	6614.48
11/17/99	6614.56
04/06/00	6617.60
05/04/00	6616.00
05/24/00	6615.76
06/07/00	6615.65
06/29/00	6615.62
06/30/00	6615.62
07/03/00	6615.07
07/13/00	6614.47
07/24/00	6614.67
08/08/00	6613.90
*10/2/00	6611.65
10/09/00	6610.94
11/09/00	6610.80
04/03/01	6617.80
04/15/01	6615.40
04/20/01	6618.10
05/16/01	6615.20
06/26/01	6614.60
07/18/01	6614.30
08/16/01	6613.70
09/17/01	6612.40
10/11/01	6611.80
11/19/01	6611.40

Tailings Impoundment Fluid Levels

	WATER
	LEVEL
DATE	OF POND
	(Ft)
12/22/01	6610.90
04/08/02	6615.90
05/13/02	6612.50
05/23/02	6611.10
06/20/02	6608.30
07/23/02	6609.50
08/19/02	6607.80
09/11/02	6608.90
10/08/02	6608.70
11/05/02	6607.10
04/17/03	6614.20
05/07/03	6613.00
05/14/03	6612.00
06/23/03	6611.20
07/14/03	6610.60
08/07/03	6609.90
09/10/03	6607.60
10/06/03	6606.80
04/05/04	6612.90
04/12/04	6611.50
04/21/04	6610.20
05/27/04	6609.75
06/17/04	6609.50
07/22/04	6608.20
08/11/04	6606.30
09/14/04	6609.20
10/14/04	6608.70
04/06/05	6613.40
05/10/05	6611.00
06/02/05	6610.80
07/15/05	6608.30
08/17/05	6606.95
09/20/05	6605.50
04/04/06	6613.30
04/25/06	6612.00
05/24/06	6610.50
06/26/06	6608.30
07/27/06	6609.70
08/23/06	6609.10
09/19/06	6608.70
03/13/07	6616.10
04/20/07	6609.30
05/29/07	6610.40
06/21/07	6608.70
07/25/07	6606.50
08/27/07	6608.30
09/24/07	6608.70
10/16/07	6609.30
12/14/07	6621.36
03/31/08	6625.60
04/14/08	6625.20
05/30/08	6625.70
06/27/08	6624.10
07/31/08	6624.00
08/29/08	6622.56
10/03/08	6621.30
10/31/08	6620.21
12/01/08	6618.61
12/29/08	6618.11
01/19/09	6619.30
02/25/09	6619.20
03/31/09	6619.00
04/30/08	6619.10
05/12/09	6619.10
05/18/09	6619.30
06/09/09	6619.70
06/18/09	6619.20
07/27/09	6619.12
08/31/09	6619.70
09/30/09	6619.70
10/27/09	6620.40
02/15/10	6621.50

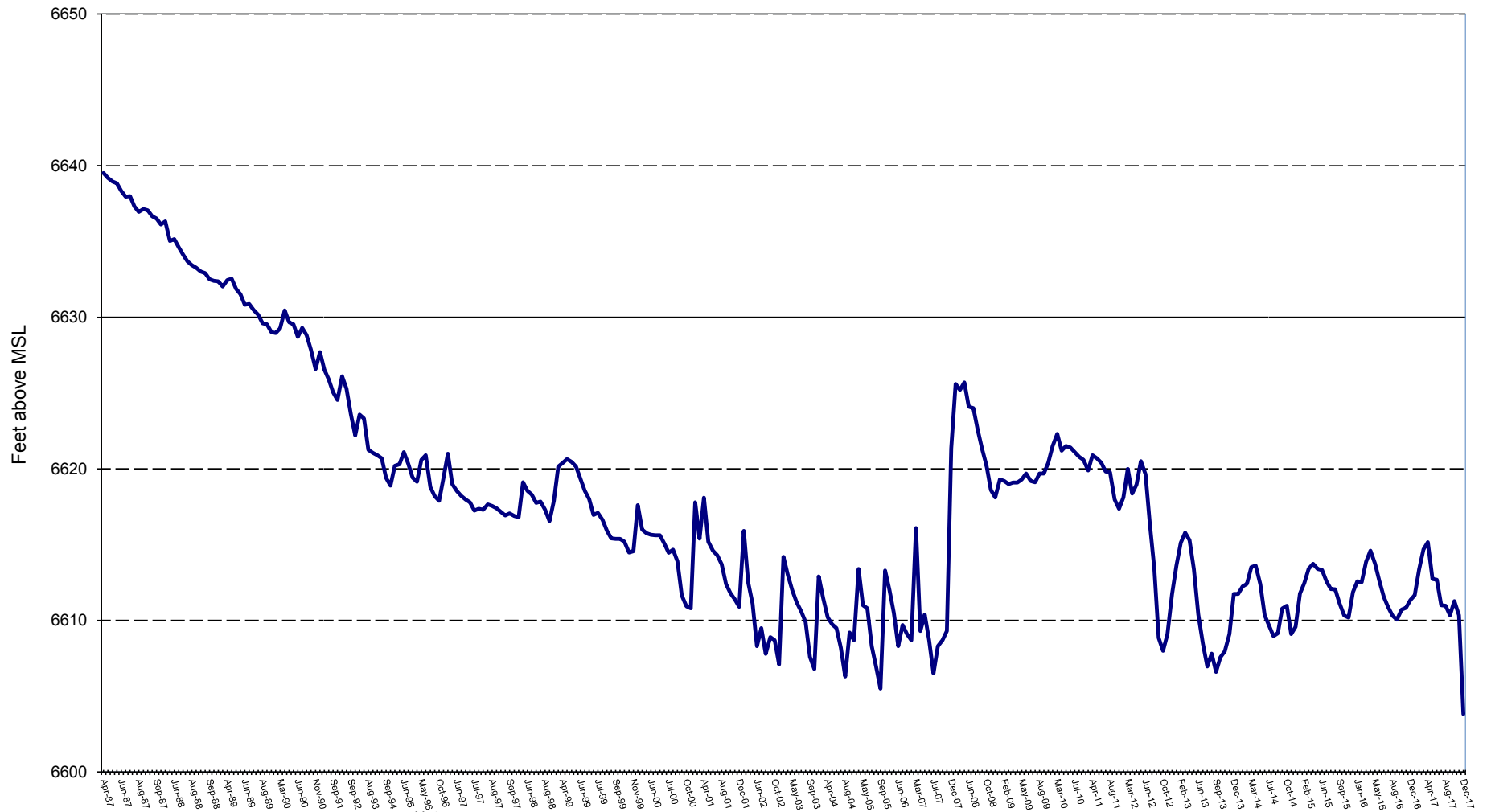
Tailings Impoundment Fluid Levels

	WATER
	LEVEL
DATE	OF POND
	(Ft)
03/15/10	6622.30
04/13/10	6621.20
05/20/10	6621.50
06/24/10	6621.40
07/24/10	6621.10
08/09/10	6620.80
09/15/10	6620.60
10/21/10	6619.90
04/07/11	6620.90
05/23/11	6620.70
06/22/11	6620.40
07/25/11	6619.83
08/08/11	6619.78
09/08/11	6617.98
10/03/11	6617.36
11/16/11	6618.12
03/14/12	6619.99
03/27/12	6618.37
04/16/12	6618.97
05/23/12	6620.51
06/19/12	6619.64
07/23/12	6616.34
08/23/12	6613.44
09/17/12	6608.84
10/09/12	6608.00
11/07/12	6609.08
12/05/12	6611.73
01/22/13	6613.62
02/27/13	6615.13
03/25/13	6615.79
04/29/13	6615.29
05/22/13	6613.36
06/17/13	6610.40
07/17/13	6608.45
07/26/13	6606.97
08/19/13	6607.81
09/04/13	6606.61
10/08/13	6607.58
11/04/13	6607.97
12/3/2013	6609.10
12/3/2013	6611.75
1/14/2014	6611.75
1/1/2014	6612.25
2/10/2014	6612.41
3/13/2014	6613.51
4/14/2014	6613.62
5/1/2014	6612.39
06/09/14	6610.34
07/09/14	6609.67
07/29/14	6608.97
08/26/14	6609.16
09/15/14	6610.78
10/14/14	6610.97
11/17/2014	6609.11
12/2/2014	6609.58
1/15/2015	6611.76
2/9/2015	6612.47
3/18/2015	6613.41
4/28/2015	6613.74
5/20/2015	6613.39
06/02/15	6613.32
07/15/15	6612.58
07/30/15	6612.07
08/18/15	6612.05
09/02/15	6611.13
10/15/2015	6610.33
11/9/2015	6610.19
12/16/2015	6611.87
1/20/2016	6612.59
2/8/2016	6612.53
3/3/2016	6613.87
4/4/2016	6614.60

Tailings Impoundment Fluid Levels

	WATER
	LEVEL
DATE	OF POND
	(Ft)
5/2/2016	6613.74
6/13/2016	6612.59
7/5/2016	6611.54
7/28/2016	6610.87
8/4/2016	6610.30
9/12/2016	6610.05
10/10/2016	6610.71
11/01/16	6610.83
12/12/16	6611.34
01/02/17	6611.66
02/15/17	6613.36

KENNECOTT URANIUM COMPANY
Sweetwater Tailings Impoundment Fluid Levels
April 14, 1987 through June 1, 2017



Notes:
 - Pool elevation measured by surveying fluid elevation in pool in impoundment's southeast corner.
 - Rise in pool elevation due to changes in size/configuration of pool caused by ongoing tailings regrading work.

KENNECOTT URANIUM COMPANY		CGL = Chemical & Geological Laboratories				ELI = Energy Laboratories, Inc.								Revised											
SWEETWATER TAILINGS CELL		CLI = Core Laboratories, Inc.				MEC = Minerals Exploration Company								08/22/97											
Surface Water Analysis																									
WYDEQ III Livestock Standard			1980	1981	1983	1984	1985	1986		1987	1988	1989	1990	1991	1992		1993		1994		1995				
	Std	12/30/80	12/17/81	8/16/83	6/4/84	8/1/85	4/11/86	7/10/86	7/6/87	7/12/88	3/29/89	6/12/90	10/31/91	4/14/92	8/11/92	10/22/92	7/1/93	9/23/93	3/24/94	7/28/94	3/31/95				
FIELD DATA mg/l:		(CGL)	(MEC)	(CGL)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)	(CLI)				
Temperature (C)				5				16.8	18.6	18.5	6.2	13.8				11.3	18.6	15.8	3.2	21.3	2				
pH (Std. Units)				0.9				1.76	1.72	2.16	2.18	2.19				2.4	2.2	2.1	3	2.4	2.33				
Cond (umho/cm)				15800				11300	9200	8009	3560	5290				13930	12450	13140	14700	12510	11310				
TDS								1000+	1000+	1000+	1000+	1000+				6980	6180	6590	8010	6210	5650				
MAJOR IONS mg/l:																									
Alk-CaCO3			0	50	0	-5	0	-1	0	1	-1	0	0	0	0	0	0	0	0	0	0				
Bicarbonate (HCO3)			0		0	-1	0	0	0			0	0	0	0	0	0	0	0	0	0				
Calcium (Ca)			158	126.7	370	420	472	519	502	497	510	320	478	580	588	726	529	445	449	423	348				
Carbonate (CO3)			0		0	-1	0	0	0			0	0	0	0	0	0	0	0	0	0				
Chloride (Cl)		2000	28	39.5	160	200	140	215	183	200	244	139	479	551	538	49.4	532	460	558	661	445				
Fluoride (F)			0.45	0.5	0.09	0.22	8	5.4	0.3	14.5	11.9	-0.1	-0.1	0.1	84.7	-0.1	0.18	-0.1	0.11	0.13	0.12				
Magnesium (Mg)			10		164	192	230	125	310	350	220	513	566	580	632	699	548	729	578	810	761				
Nitrate-N (NO2)		10	0.11	ND	23.33	17.5	29.3	11.6	25	24	0.5	1.12	5.09	-0.01	146	97.1	-0.1	-0.1	0.2	2.7	0.27				
Potassium (K)			3	1.4	42	44	45	96	53	61	63	29	41.2	10.8	14.3	9.17	5	2.9	0.9	1	0.87				
Silica (SiO2)			18.6	186.4	496	556	527	523	435	43	79	364	618	681	745	393	631	554	615	476	338				
Sodium (Na)			337	99.8	166	184	225	232	283	258	302	180	596	680	683	777	669	465	663	682	541				
Sulfate (SO4)		3000	1090	9529	7400	6200	9200	8880	10400	10400	12600	5743	12760	14084	13850	13300	14793	10701	12976	12145	11000				
NON-METALS:																									
Cyanide (CN)											-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005				
PHYSICAL PROPERTIES:																									
Cond (umho/cm)			3075	15800	11000	10870	10830	11360	11800		7872	13611	13752	1420	12449	13115	12560	13928	14313	13085	11823				
pH (units)		-2	2.3	0.9	1.4	1.8	1.7	1.82	1.9		2.3	1.97	2.57	2.23	2.24	2.34	2.58	2.46	2.43	2.48	2.7				
TDS @ 180°		5000	1322	12958	9640	10580	14178	13990	14100	14700	16600	8464	19352	20408	21061	19300	21140	15441	17532	16887	14566				
TRACE METALS mg/l:																									
Aluminum (Al)		5	15.7	151.4	312	360	375	378	423	567	320	485	818	874	979	906	676	854	863	912	800				
Arsenic (As)		0.2	-0.01	0.288	0.78	0.326	0.18	0.23	0.36	0.126	0.447	0.223	0.41	0.26	0.46	0.4	0.02	0.14	0.16	0.12	0.099				
Barium (Ba)					0.052	0.01	0.01				-0.1	-0.1	-0.1	-0.1	0.37	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1				
Beryllium (Be)											0.16	0.24	0.23	0.23	-0.01	0.26	0.23	-0.01	0.31	0.22	0.19				
Boron (B)		5	-1	0	0.19	0.13	0.15	-0.1	-0.1	3	0.75	-0.1	0.1	0.13	-0.1	0.15	-0.1	3.98	4.5	3.08	1.9				
Cadmium (Cd)		0.05	-0.01	-0.005	0.02	-0.01	0.23	-0.01	0.03	0.05	-0.005	0.024	0.093	-0.005	0.021	-0.005	-0.005	-0.005	-0.005	-0.01	0.07				
Chromium (Cr)		0.05	0.06	1.7	3.59	-0.05	1.7	3.1	0.56	2.48	35	1.5	2.45	3.65	2.86	3.79	3.36	3.75	3.3	3.08	2.25				
Cobalt (Co)		1														2.085	1.78	2.55	6.65	2.45	-				
Copper (Cu)		0.5	0.04	0.9	1.09	0.86	1.1	1.1	1.2	1.5	1.46	0.76	1.31	2.11	2.28	2.79	2.41	2.48	2.82	1.73	1.83				
Iron (Fe)			32.5		898	836	815	830	750	1290	1550		1297	1676	1703	638	1540	1256	1478	1125	991				
Lead (Pb)		0.1	-0.05	0.8	0.66	0.48	0.33	0.49	0.42	-0.05	0.4	0.05	0.11	0.39	-0.01	-0.01	-0.01	-0.01	0.41	-0.01	-0.01				
Manganese (Mn)			0.82	23.2	19	26.9	26	26.6	27.7	30	48.7	22	46.2	74.87	62.9	83.9	72.2	66.7	76	65.4	63.1				
Mercury (Hg)		0.005	-0.001	-0.005	-0.0004	-0.0004	0.0004	0.0043	-0.0004	-0.0004	-0.001	-0.001	-0.002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002				
Molybdenum (Mo)			-0.1	0.1	-0.1	-0.1	-0.02	-0.02	0.3	-0.5	-0.01	0.01	0.04	0.11	0.33	-0.01	-0.01	-0.01	-0.01	-0.1	-0.01				
Nickel (Ni)			0.07	1.3	1.91	0.93	1.1	1.2	1.8	2.33	2.1	2.68	3.93	3.69	5.08	4.14	4.95	5.73	4.35	4.06	3.6				
Selenium (Se)		0.05	-0.01	0.032	0.02	0.012	0.009	0.029	0.023	0.002	0.424	0.262	0.531	0.44	0.614	0.426	0.62	0.608	0.618	0.385	0.349				
Silver (Ag)						-0.02	-0.02				-0.01	0.01	0.02	2.05	-0.01	0.12	-0.01	-0.01	-0.01	-0.01	-0.01				
Thallium (Tl)											-0.015	0.49	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015	-0.015				
Vanadium (V205)		0.1	0.41	2.8	2.91	2.72	3.1	4.3	4.7	7.6	9.64	2.5	2.04	2.06	2.05	2.38	1.93	2.1	1.89	1.5	1.2				
Zinc (ZN)		25	1.11	31	1.7	1.72	3.1	2.1	2.2	3	4	1.9	4.03	6.02	5.72	7.02	6.45	6.38	7.71	6.67	5.95				
RADIOMETRIC pCi/l:																									
Uranium, natural		3385	3012.7	3100.1	3046.5	3047	44	2006	2832	5416	4690 (0.2)	2269	8023	7777 (0.2)	7212	8480	6177	9030	10507	9864	10311				
Radium 226			114	99.14	102	59	11.2	41.9	25	13	12.7	303	439	126	70.1	74.4	54.7	38.1	40.4	53.9	112				
Radium 226 Error Estimate			3	2.09	12	2	0.5	9	5.1	0.8	1	8.3	9.6	4.4	2.9	7.6	2.5	3.1	1.8	3.3	6				
Radium 228												15.1	-1	15.8	1.8	4.2	5.8	9	3.5	9.6	7.6				
Radium 228 Error Estimate												+/- 2.0	+/- 2.1	+/- 0.7	+/- 0.9	+/- 0.7	+/- 2.9	+/- 0.9	+/- 9.4	+/- 5.4					
Combined Ra226/228		5										318.1	439	141.8	71.9	78.6	60.5	47.1	43.9	63.5	119.6				
Radon 222																									
Radon 222 precision (±)																									
Thorium 230			1.24	3035	864	23567	6857	18461	39334	11000	15200	11521	2831	2820	19310	18700	5487	9880	3266	650	4136				
Thorium-230 Error Estimate			+/- 68	+/- 6.93	+/- 1195	+/- 1717	+/- 68		+/- 337	+/- 77	+/- 105	+/- 195	+/- 45.1	+/- 14	+/- 105	+/- 119	+/- 44	+/- 104	+/- 54	+/- 403	+/- 371				
Lead (Pb210)			394	1541	513	2850	2598.6	2134	1890	1440	2	76.9	90.9	-1	6.3	5.4	5	-1	-1	3.5	9				
Lead 210 Error Estimate			+/- 20	+/- 37	+/- 5	+/- 52	+/- 160	+/- 8	+/- 124	+/- 89	+/- 1.1	+/- 5.3	+/- 8.7		+/- 0.8	+/- 3.8	+/- 0.7		+/- 2.1	+/- 8.1					
Polonium (Po210)			64	361	640	1581	476	176	782	1.8	17.5														
Polonium 210 Error Estimate			+/- 11	+/- 25	+/- 7	+/- 40	+/- 8	+/- 14	+/- 29	+/- 0.6	+/- 1.1														
Gross Alpha		15										14093	3325	3000	20000	27300	5541	9919	3312	718	4276				
Gross Alpha Error Estimate												+/- 119	+/- 58	+/- 55	+/- 400	+/- 165	+/- 74.4	+/- 99	+/- 58	+/- 26.8	+/- 168				
QUALITY ASSURANCE DATA:																									
A/C Balance (±5) %					51.4	49.1	57.86	12.69				1.115	0.964	1.033	1.13	1.037	1.064	0.999	1.044	1	1.02				
(Energy Labs Inc unless noted)																									

KENNECOTT URANIUM COMPANY																								
SWEETWATER TAILINGS CELL																								
Surface Water Analysis																								
WYDEQ III Livestock Standard			1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	Std	6/22/96	6/3/97	6/2/98	6/2/99	6/6/00	6/5/01	6/12/02	6/4/03	6/15/04	6/7/05	6/6/06	6/4/07	5/13/08	6/9/09	6/7/10	6/7/11	4/16/12	5/20/13	6/1/14	6/2/15	6/8/16	6/19/17	
FIELD DATA mg/l:																								
Temperature (C)		17.1	18	14	14	16	10	12	14	16	14	27.2	4	4.2	12.3	14.8	16	8.3	13.9	18.1	19	20.9	18.6	
pH (Std. Units)		2.53		2.8	2.8	2.7	2.8	2.8	2.8	16.2	2.1	2.78	3.34	3.1	7.8	2.8	3.2	3	3.5	3.4	3.39	2.84	2.86	
Cond (umho/cm)		13400	11200	11600	13000	9000	1200	9600	10400	9000	8000	12550	10140	9860	11610	10950	12170	9130	5800	10160	10880	12650	12960	
TDS		6690																						
MAJOR IONS mg/l:																								
Alk-CaCO3		0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	
Bicarbonate (HCO3)		0	0	-0.1	-0.1	-0.1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	
Calcium (Ca)		707	389	378	431	410	469	410	459	470	436	501	549	486	436	419	447	406	456	477	397	522	477	
Carbonate (CO3)		0	0	-0.1	-0.1	-0.1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-5	-5	-5	-5	-5	
Chloride (Cl)	2000	628	502	503	574	607	610	680	678	820	651	683	649	695	786	704	828	754	644	699	730	962	870	
Fluoride (F)		26.5	24	24.1	25.1	30.4	36.5	42.4	43.7	38.4	16	44.9	13.5	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.1	24	
Magnesium (Mg)		1010	880	830	880	931	1130	992	1130	1300	1140	1290	1110	1080	1040	827	952	931	856	862	836	1000	1010	
Nitrate-N (NO2)	10	0.3	1.86	0.14	1.1	0.83	0.67	0.4	2.4	0.17	-0.1	0.3	0.5	0.3	0.3	0.6	-0.1	0.3	0.1	0.1	0.1	0.1	-0.1	
Potassium (K)		0.7	1.03	1	1.9	0.5	0.7	-1	1.5	1	-0.5	1.4	5.3	5.9	5	3.9	4.4	3.8	7.3	7.9	7.1	8.7	13	
Silica (SiO2)		364	252	237	232	188	175	151	138	130	119	117	105	48	103	77.4	167	76.3	81.6	92.3	78.7	91.1	90.4	
Sodium (Na)		870	606	607	651	657	733	724	801	810	726	725	743	829	998	846	1060	872	868	899	846	1010	1010	
Sulfate (SO4)	3000	14281	13120	12300	12200	11500	13100	12500	13400	14000	12500	13500	10300	9950	10600	8670	10600	9430	8240	8710	8320	10400	10100	
NON-METALS:																								
Cyanide (CN)		-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	
PHYSICAL PROPERTIES:																								
Cond (umho/cm)		12495	11800	12600	12900	14300	14000	14200	14100	14100	13600	13200	11500	12100	12700	10800	11700	11300	10700	10700	10900	12000	12800	
pH (units)	-2	2.55	2.61	2.82	2.81	2.83	2.81	2.83	2.88	2.95	2.94	3.09	3.37	3.55	3.01	3.19	3.16	3.1	3.49	3.47	3.36	3.38	3.54	
TDS @ 180°	5000	19167	15900	18700	18600	19900	19400	20400	20100	21000	19100	18100	13600	14800	15200	12900	13900	13300	12300	12000	12200	14500	14800	
TRACE METALS mg/l:																								
Aluminum (Al)	5	920	974	1000	1150	916	1220	1150	1250	1300	1230	1060	554	495	495	508	533	496	405	427	414	486	558	
Arsenic (As)	0.2	0.097	0.068	0.081	0.073	0.078	0.039	0.036	0.023	0.06	0.027	0.019	0.012	0.017	0.009	0.017	0.037	0.014	0.011	0.011	0.014	0.012	0.014	
Barium (Ba)		-0.1	-0.1	-0.1	-0.1	0.89	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	
Beryllium (Be)		0.3	0.24	0.24	0.26	0.27	0.2	0.32	0.18	0.25	0.33	0.35	0.2	0.18	0.15	0.17	0.34	0.15	0.15	0.13	0.14	0.16	0.17	
Boron (B)	5	-0.1	0.56	-0.1	0.75	-0.1	0.5	0.63	-0.22	-0.1	0.3	0.4	0.4	0.4	-0.1	-0.1	0.4	0.2	0.5	0.2	0.2	0.2	0.3	
Cadmium (Cd)	0.05	0.11	0.028	0.022	0.02	0.038	0.019	0.034	0.02	0.03	0.019	0.017	0.014	0.028	0.018	0.014	0.024	0.008	0.017	0.017	0.007	0.007	0.007	
Chromium (Cr)	0.05	3.21	2.38	2.12	2.23	2.35	1.83	2.47	1.31	2	1.7	1.44	0.55	0.24	0.31	0.25	0.44	0.19	0.18	0.16	0.13	0.21	0.18	
Cobalt (Co)	1	2.19	1.83	2.47	1.69	2.07	1.95	2.78	1.87	3	2.63	2.96	2.09	2.21	2.03	2.13	2.2	1.87	1.83	1.67	1.62	2.05	2.3	
Copper (Cu)	0.5	2.55	2	1.93	1.8	2.03	1.54	2.04	1.76	1.9	1.64	1.54	0.58	0.44	0.49	0.43	0.71	0.3	0.26	0.18	0.13	0.13	0.12	
Iron (Fe)		874	722	573	418	348	313	250	232	230	139	115	59.5	135	134	108	171	174	300	265	240	309	366	
Lead (Pb)	0.1	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.02	-0.01	-0.01	-0.01	0.02	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.01	
Manganese (Mn)		82.4	80	76	78.6	79.5	61.7	94	70.4	110	84.4	94.4	67.4	79.6	80.2	67.8	72.1	64.7	60.9	60	51.3	71.7	79.6	
Mercury (Hg)	0.005	-0.0002	-0.0002	-0.0002	-0.0002	0.0006	-0.0002	0.0005	-0.0004	0.0005	-0.0002	-0.0002	-0.0002	-0.0004	-0.0004	-0.0002	0.0007	-0.0002	-0.0002	0.0008	-0.0002	-0.0002	0.0002	
Molybdenum (Mo)		-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.04	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.02	
Nickel (Ni)		5.37	4.3	5.7	4	6.16	4.6	7.01	5.79	7.2	6.8	6.92	4.39	4.97	5.52	4.69	4.89	4.01	3.58	3.56	3.68	4.65	5.2	
Selenium (Se)	0.05	0.608	0.888	0.655	0.641	0.706	0.591	0.618	0.579	0.24	0.534	0.461	0.414	0.287	0.256	0.198	0.327	0.132	0.101	0.109	0.078	0.104	0.08	
Silver (Ag)		-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.05	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
Thallium (Tl)		-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	0.16	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	
Vanadium (V205)	0.1	1.37	1.4	0.87	0.75	0.57	0.4	0.5	0.3	0.2	0.2	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.2	0.1	0.2	0.2		
Zinc (ZN)	25	0.79	6.68	7.48	6.99	7.65	5.8	9.19	11.6	9.5	8.25	7.48	5.72	4.75	6	5.07	5.18	4.47	3.78	3.28	3.68	3.67	3.98	
RADIOMETRIC pCi/l:																								
Uranium, natural	3385	8973	8400	10800	11200	12000	12300	12321.4	12000	11000	10300	11100	8530	6350	7980	6420	10900	5660	5740	4940	4180	4800	4360	
Radium 226		55.3	60.6	45.8	567	83.1	59.8	55.9	69.8	46.2	23.8	1.5	20.2	25.2	10	7.6	5.7	5.3	6.9	8.3	14	25	25.8	
Radium 226 Error Estimate		1.9	2.6	2	2.3	3	2.3	2.3	2.5	2.2	1.8	0.4	1.7	0.9	0.68	0.55	0.61	0.52	0.71	0.88	2.8	4.8	5	
Radium 228		6.7	-1	1.9	2.9	3.6	1.9	-1	-1	-1	-1	8.9	-1	2.3	1.3	1.6	0.8	0.3	1	3.7	1.5	4.2	3.7	
Radium 228 Error Estimate		+/- 0.5		+/- 1.1	+/- 0.5	+/- 0.2	+/- 1.0					+/-1.1		0.7	0.9	0.8	1	1.1	1.6	2	0.8	1.3	2.2	
Combined Ra226/228	5	62	60.6	47.7	569.9	86.7	61.7	55.9	69.8	46.2	23.8	10.4	20.2	27.5	11.3	9.2	6.5	5.6	7.9	12	15.5	29.2	29.5	
Radon 222																								
Radon 222 precision (±)																								
Thorium 230		7550	4526	6360	2340	11500	9440	3250	1890	2110	1650	1620	671	216	361	283	214	179	99.4	115				

Tables 1 and 2

TABLE 1

GALLONS PUMPED TO TAILINGS IMPOUNDMENT

WELL:	TYPE:	April 1, 1986 to April 1, 1987	April 1, 1987 to April 1, 1988	April 1, 1988 to April 1, 1989	April 1, 1989 to April 1, 1990	April 1, 1990 to January 1, 1991	January 1, 1991 to December 1, 1991	December 1, 1991 to December 31, 1992	December 31, 1992 to December 31, 1993	December 31, 1993 to December 31, 1994
TMW 7	Aquifer									
TMW 16	Aquifer		973,474.00	1,669,570.00	1,012,740.00	824,139.00	375,942.00	825,270.00	1,202,150.00	976,840.00
TMW 17	Aquifer	3,652,911.00	3,699,987.00	3,096,627.00	2,289,813.00	2,526,771.00	5,248,474.00	5,988,820.00	4,284,690.00	4,387,290.00
TMW 18	Aquifer	743,540.00	1,612,795.00	3,125,776.00	4,329,036.00	4,286,378.00	5,905,911.00	5,262,910.00	5,019,830.00	5,307,990.00
TMW 55	Perch				101,875.00					
TMW 57	Aquifer									
TMW 58	Aquifer									2,713,490.00
TMW 59	Aquifer			277,190.00	1,035,242.00	1,262,117.00	2,237,358.00	2,478,090.00	1,528,780.00	2,356,260.00
TMW 65	Perch		*							
TMW 75	Aquifer			2,296,870.00	1,898,236.00	1,161,418.00	2,228,506.00	6,747,830.00	2,031,570.00	2,761,170.00
TMW 76	Perch	43,293.00	*							
TMW 79	Perch	39,875.00								
TMW 80	Perch	56,675.90	*	53,655.00						
TMW 83	Perch		241,028.00	*	*					
TMW 85	Perch	2,266.30								
TMW 91	Aquifer									
TMW 96	Aquifer									
TMW 97	Aquifer									
Bison Basin	Disposal				561,120.00					
GMIX	Disposal									
Subtotal:		4,538,561.20	6,527,284.00	10,519,688.00	11,228,062.00	10,060,823.00	15,996,191.00	21,302,920.00	14,067,020.00	18,503,040.00
Cumulative Gallons Pumped:			11,065,845.20	21,585,533.20	32,813,595.20	42,874,418.20	58,870,609.20	80,173,529.20	94,240,549.20	112,743,589.20

* **Bold** number is combined total of this well plus wells marked by asterisk.

TABLE 1

GALLONS PUMPED TO TAILINGS IMPOUNDMENT

WELL:	TYPE:	December 31, 1994 to December 31, 1995	December 31, 1995 to December 31, 1996	December 31, 1996 to December 31, 1997	December 31, 1997 to December 31, 1998	December 31, 1998 to December 31, 1999	December 31, 1999 to December 31, 2000	December 31, 2000 to December 31, 2001	December 31, 2001 to December 31, 2002
TMW 7	Aquifer								
TMW 16	Aquifer	1,916,500.00	2,114,160.00	1,821,300.00	1,819,410.00	1,500,750.00	1,234,950.00	1,939,100.00	955,970.00
TMW 17	Aquifer	3,875,680.00	3,534,560.00	2,406,940.00	1,882,910.00	1,597,310.00	3,436,750.00	1,530,080.00	991,590.00
TMW 18	Aquifer	3,760,740.00	4,577,190.00	3,945,330.00	5,361,630.00	5,454,370.00	5,449,610.00	5,669,760.00	6,099,470.00
TMW 55	Perch								
TMW 57	Aquifer							1,958,380.00	2,165,880.00
TMW 58	Aquifer	3,853,980.00	3,450,330.00	3,680,030.00	2,558,000.00	3,081,960.00	2,854,470.00	2,312,330.00	1,738,740.00
TMW 59	Aquifer	2,307,730.00	2,048,600.00	2,099,550.00	2,236,360.00	2,148,390.00	2,231,660.00	1,953,690.00	1,654,000.00
TMW 65	Perch								
TMW 75	Aquifer	2,434,410.00	2,837,230.00	2,211,080.00	2,076,280.00	1,792,490.00	2,782,610.00	2,734,650.00	2,551,680.00
TMW 76	Perch								
TMW 79	Perch								
TMW 80	Perch								
TMW 83	Perch								
TMW 85	Perch								
TMW 91	Aquifer								
TMW 96	Aquifer								
TMW 97	Aquifer								
Bison Basin	Disposal								
GMIX	Disposal							15,000.00	
Subtotal:		18,149,040.00	18,562,070.00	16,164,230.00	15,934,590.00	15,575,270.00	17,990,050.00	18,112,990.00	16,157,330.00
Cumulative Gallons Pumped:		130,892,629.20	149,454,699.20	165,618,929.20	181,553,519.20	197,128,789.20	215,118,839.20	233,231,829.20	249,389,159.20

TABLE 1

GALLONS PUMPED TO TAILINGS IMPOUNDMENT

WELL:	TYPE:	December 31, 2002 to December 31, 2003	December 31, 2003 to December 31, 2004	January 1, 2005 to December 31, 2005	January 1, 2006 to December 31, 2006	January 1, 2007 to December 31, 2007	January 1, 2008 to December 31, 2008	January 1, 2009 to December 31, 2009	January 1, 2010 to December 31, 2010	January 1, 2011 to December 31, 2011
TMW 7	Aquifer	262,880.00	3,371,090.00	2,638,080.00	2,011,900.00	2,807,610.00	2,679,730.00	1,651,640.00	1,889,200.00	2,525,220.00
TMW 16	Aquifer	1,008,140.00								
TMW 17	Aquifer	1,440,200.00	2,196,440.00	2,121,860.00	1,475,180.00	2,602,950.00	4,433,800.00	3,234,660.00	2,986,020.00	2,939,940.00
TMW 18	Aquifer	5,356,710.00	4,085,050.00	4,150,670.00	4,326,090.00	4,450,800.00	3,663,220.00	3,816,850.00	5,506,955.00	4,199,450.00
TMW 55	Perch									
TMW 57	Aquifer	1,364,700.00	1,907,680.00	2,066,070.00	2,619,800.00	2,963,350.00	1,532,830.00	1,705,610.00	1,574,480.00	1,982,620.00
TMW 58	Aquifer	2,122,770.00	2,705,370.00	1,776,710.00	2,170,120.00	821,270.00	508,430.00	2,316,780.00	2,545,390.00	2,053,320.00
TMW 59	Aquifer	1,754,410.00	1,741,170.00	2,233,710.00	2,312,760.00	2,829,940.00	2,577,980.00	4,056,297.00	4,489,890.00	3,823,495.00
TMW 65	Perch									
TMW 75	Aquifer	2,249,480.00	2,175,390.00	2,351,240.00	1,088,240.00	945,160.00	1,597,030.00	1,893,450.00	1,792,330.00	2,147,530.00
TMW 76	Perch									
TMW 79	Perch									
TMW 80	Perch									
TMW 83	Perch									
TMW 85	Perch									
TMW 91	Aquifer			4,702.00						
TMW 96	Aquifer			1,490,620.00	3,969,900.00	3,108,420.00	2,908,420.00	1,505,790.00	1,452,580.00	2,068,750.00
TMW 97	Aquifer			1,606,540.00	4,374,660.00	3,067,380.00	4,132,580.00	1,922,030.00	1,629,010.00	2,715,420.00
Bison Basin	Disposal									
GMIX	Disposal									
Subtotal:		15,559,290.00	18,182,190.00	20,440,202.00	24,348,650.00	23,596,880.00	24,034,020.00	22,103,107.00	23,865,855.00	24,455,745.00
Cumulative Gallons Pumped:		264,948,449.20	283,130,639.20	303,570,841.20	327,919,491.20	351,516,371.20	375,550,391.20	397,653,498.20	421,519,353.20	445,975,098.20

TABLE 1

GALLONS PUMPED TO TAILINGS IMPOUNDMENT

WELL:	TYPE:	January 1, 2012 to December 31, 2012	January 1, 2013 to December 31, 2013	January 1, 2014 to December 31, 2014	January 1, 2015 to December 31, 2015	January 1, 2016 to December 31, 2016	January 1, 2017 to December 31, 2017	
TMW 7	Aquifer	1,535,260.00	2,876,020.00	2,710,550.00	1,816,340.00	1,573,930.00	1,977,580.00	32,327,030.00
TMW 16	Aquifer							22,170,405.00
TMW 17	Aquifer	2,334,240.00	4,090,830.00	4,786,830.00	4,313,330.00	4,789,240.00	5,295,860.00	103,472,583.00
TMW 18	Aquifer	5,560,280.00	6,124,520.00	5,993,400.00	5,664,960.00	5,848,500.00	6,238,060.00	150,897,781.00
TMW 55	Perch							101,875.00
TMW 57	Aquifer	1,703,700.00	1,580,290.00	980,710.00	1,793,390.00	1,799,210.00	1,320,010.00	31,018,710.00
TMW 58	Aquifer	2,838,710.00	2,836,830.00	2,273,690.00	2,188,540.00	2,921,950.00	2,637,590.00	58,960,800.00
TMW 59	Aquifer	4,456,745.00	4,551,430.00	5,482,490.00	4,440,160.00	4,095,790.00	4,231,530.00	80,932,814.00
TMW 65	Perch							-
TMW 75	Aquifer	2,324,390.00	2,096,450.00	1,823,250.00	2,578,490.00	1,910,870.00	1,293,590.00	66,812,920.00
TMW 76	Perch							43,293.00
TMW 79	Perch							39,875.00
TMW 80	Perch							110,330.90
TMW 83	Perch							241,028.00
TMW 85	Perch							2,266.30
TMW 91	Aquifer							4,702.00
TMW 96	Aquifer	1,608,821.00	832,530.00	1,291,290.00	1,297,880.00	1,090,440.00	1,667,940.00	24,293,381.00
TMW 97	Aquifer	2,294,550.00	1,218,170.00	1,303,460.00	2,302,910.00	2,781,970.00	2,085,480.00	31,434,160.00
Bison Basin	Disposal							561,120.00
GMIX	Disposal							15,000.00
Subtotal:		24,656,696.00	26,207,070.00	26,645,670.00	26,396,000.00	26,811,900.00		603,440,074.20
Cumulative Gallons Pumped:		470,631,794.20	496,838,864.20	523,484,534.20	549,880,534.20	576,692,434.20		

KENNECOTT URANIUM COMPANY

TABLE 2																			
MASS OF SALTS AND OTHER CONSTITUENTS REMOVED FROM THE PERCHED AND BATTLE SPRINGS AQUIFERS																			
AND PUMPED BACK INTO THE TAILINGS CELL																			
AS OF DECEMBER 31, 2017																			
SALTS	TMW-7	TMW-16	TMW-17	TMW-18	TMW-55	TMW-57	TMW-58	TMW-59	TMW-65	TMW-75	TMW-76	TMW-79	TMW-80	TMW-83	TMW-85	TMW-91	TMW-96	TMW-97	TAILS CELL
(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)	(KG)
MAJOR IONS																			
Bicarbonate	23,378.44	27,851.82	57,889.33	291,465.71	-	14,425.14	45,574.97	104,029.99	-	44,010.02	-	-	-	-	-	2.49	12,740.09	13,690.21	635,058.22
Calcium	20,315.18	33,391.21	43,649.00	313,008.49	-	12,479.64	51,006.33	148,500.31	-	40,668.42	-	-	-	-	-	6.33	16,376.23	17,106.44	696,507.58
Carbonate	594.55	576.92	-	-	-	-	-	33.71	-	-	-	-	-	-	-	-	3.01	4.70	1,212.89
Chloride	4,085.44	5,014.43	6,635.12	49,599.41	-	1,359.91	6,659.67	23,154.05	-	5,809.70	-	-	-	-	-	1.01	2,535.49	2,456.32	107,310.55
Fluoride	7.89	2.42	43.44	6.59	-	14.96	19.12	45.23	-	32.20	-	-	-	-	-	-	8.84	13.09	193.79
Magnesium	2,087.63	2,572.42	2,713.91	22,248.84	-	940.97	3,944.13	18,792.95	-	3,135.65	-	-	-	-	-	0.49	1,211.99	1,261.59	58,910.57
Nitrate(NO3)	-	29.88	118.86	173.01	-	-	4.52	15.74	-	34.27	-	-	-	-	-	-	7.58	1.04	384.91
Potassium	434.29	481.94	1,219.44	3,629.77	-	354.06	926.87	2,054.10	-	877.93	-	-	-	-	-	0.08	345.91	387.68	10,712.08
Silica	1,923.69	1,430.36	5,273.16	12,367.21	-	1,522.63	3,246.13	5,539.65	-	3,729.88	-	-	-	-	-	0.23	1,213.08	1,536.24	37,782.27
Sodium	6,418.44	7,454.19	15,587.28	50,095.85	-	4,274.89	11,720.72	26,553.63	-	12,046.10	-	-	-	-	-	1.28	4,547.55	5,085.14	143,785.08
Sulfate	47,414.58	76,973.64	98,341.25	649,940.70	281.43	29,638.50	118,172.65	390,812.81	424.26	90,597.58	2,509.88	274.72	966.02	848.22	18.02	16.37	40,928.98	41,559.15	1,589,718.75
TDS	96,734.14	148,300.36	202,531.49	1,300,456.75	456.46	58,673.51	225,562.31	709,582.31	701.63	185,911.03	4,529.50	531.92	1,651.65	1,423.79	33.85	28.12	75,487.80	78,609.24	3,091,205.85
TRACE METALS																			
Aluminum	-	1.04	-	59.53	-	0.41	-	1.93	-	0.44	-	-	-	-	-	-	-	-	63.35
Arsenic	0.01	0.03	0.00	0.08	-	0.00	0.02	0.05	-	0.07	-	-	-	-	-	-	0.01	0.00	0.26
Barium	-	0.22	1.53	1.52	-	-	-	0.94	-	-	-	-	-	-	-	-	-	-	4.21
Beryllium	-	-	-	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08
Boron	0.19	0.57	0.40	3.52	-	0.25	2.09	6.80	-	1.23	-	-	-	-	-	-	0.38	-	15.43
Cadmium	-	0.01	-	0.12	-	-	-	0.03	-	0.08	-	-	-	-	-	-	-	-	0.23
Chromium	0.03	0.43	0.59	1.90	-	0.04	0.22	0.22	0.04	0.01	0.03	-	-	-	-	-	-	-	3.51
Cobalt	0.03	0.03	0.00	0.59	-	0.61	0.32	3.06	-	0.02	-	-	-	-	-	-	0.01	-	4.67
Copper	-	0.22	0.70	0.75	-	-	-	0.19	-	0.08	-	-	-	-	-	-	0.00	-	1.93
Cyanide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	429.59	51.35	30.53	3,744.69	-	25.22	94.72	10,730.83	-	34.72	-	-	-	-	-	-	3.67	10.38	15,155.69
Lead	-	-	-	1.57	-	-	-	0.12	-	-	-	-	-	-	-	-	-	-	1.69
Manganese	73.73	35.54	25.47	621.35	-	13.22	43.57	1,051.14	-	27.83	-	-	-	-	-	-	9.71	11.99	1,913.55
Mercury	0.00	-	-	0.00	-	-	0.00	0.00	-	-	-	-	-	-	-	-	0.00	-	0.01
Molybdenum	-	0.02	0.17	0.06	-	-	-	0.26	-	0.26	-	-	-	-	-	-	-	-	0.76
Nickel	0.13	0.32	0.81	2.64	-	0.65	0.30	3.12	-	0.45	-	-	-	-	-	-	0.02	-	8.45
Selenium	0.00	0.06	0.12	0.45	0.07	0.01	0.19	0.19	0.18	0.12	0.41	0.03	0.25	0.22	-	-	0.63	0.01	2.94
Silver	-	0.27	0.56	0.48	-	-	-	0.06	-	0.02	-	-	-	-	-	-	-	-	1.39
Thallium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	0.25	-	0.55	2.36	-	-	0.10	0.03	-	-	-	-	-	-	-	-	-	-	3.30
Zinc	0.27	2.94	7.49	8.08	-	0.99	4.53	3.45	-	2.64	-	-	-	-	-	-	0.49	0.18	31.06
RADIOMETRICS																			
Uranium (mg/l)	2.09	24.09	4.50	2.26	-	0.72	3.30	2.86	-	12.23	-	-	-	-	-	-	6.31	4.78	63.14

TABLE 2

TMW-7												
CONTAMINANTS REMOVED												
(Started pumping 12/01/03)	2017											
DATE FS:	11-Jan-17			19-Apr-17			31-Jul-17			16-Oct-17		
		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		357,020	29,132,540		427,370	29,559,910		670,840	30,230,750		522,350	30,753,100
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
MAJOR IONS	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
Bicarbonate	188.00	254.08	22344.41	183.00	296.05	22640.47	145.00	368.21	23008.68	187.00	369.76	23378.44
Calcium	159.00	214.88	19448.23	156.00	252.37	19700.60	126.00	319.97	20020.56	149.00	294.62	20315.18
Carbonate	0.00	0.00	579.31	0.00	0.00	579.31	6.00	15.24	594.55	0.00	0.00	594.55
Chloride	45.00	60.82	3850.38	46.00	74.42	3924.80	29.00	73.64	3998.44	44.00	87.00	4085.44
Fluoride	0.10	0.14	7.28	0.10	0.16	7.44	0.10	0.25	7.69	0.10	0.20	7.89
Magnesium	25.70	34.73	1959.73	24.30	39.31	1999.04	16.90	42.92	2041.96	23.10	45.68	2087.63
Nitrate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potassium	3.70	5.00	413.73	3.60	5.82	419.56	3.00	7.62	427.18	3.60	7.12	434.29
Silica	15.70	21.22	1831.43	15.60	25.24	1856.67	13.70	34.79	1891.46	16.30	32.23	1923.69
Sodium	64.50	87.17	6074.21	62.50	101.11	6175.32	48.40	122.91	6298.22	60.80	120.22	6418.44
Sulfate	451.00	609.51	45072.44	455.00	736.09	45808.52	328.00	832.93	46641.45	391.00	773.13	47414.58
TDS	860.00	1162.26	91881.86	905.00	1464.08	93345.94	716.00	1818.21	95164.15	794.00	1569.98	96734.14
TRACE METALS												
Aluminum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03
Cobalt	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.01	0.02	0.00	0.01	0.03
Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	9.86	13.33	383.24	8.25	13.35	396.59	5.91	15.01	411.60	9.10	17.99	429.59
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	1.27	1.72	67.21	1.19	1.93	69.13	0.86	2.18	71.32	1.22	2.41	73.73
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.13	0.00	0.00	0.13	0.00	0.00	0.13	0.00	0.00	0.13
Selenium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25
Zinc	0.01	0.01	0.27	0.00	0.00	0.27	0.00	0.00	0.27	0.00	0.00	0.27
RADIOMETRICS												
U mg/l	0.02	0.03	1.95	0.03	0.06	2.01	0.02	0.04	2.05	0.02	0.04	2.09

TMW-17												
BATTLE SPRING AQUIFER												
CONTAMINANTS REMOVED	2017											
DATE FS	11-Jan-17			19-Apr-17			31-Jul-17			24-Oct-17		
(Started pumping 7/1/86)		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		1,259,910	94,647,393		1,317,680	95,965,073		1,331,380	97,296,453		1,386,890	98,683,343
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS												
Bicarbonate	147.00	701.08	55,763.78	142.00	708.29	56,472.07	126.00	635.02	57,107.09	149.00	782.24	57,889.33
Calcium	81.60	389.17	42,390.76	82.30	410.51	42,801.27	80.60	406.21	43,207.48	84.10	441.52	43,649.00
Carbonate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloride	9.00	42.92	6,502.66	9.00	44.89	6,547.55	8.00	40.32	6,587.87	9.00	47.25	6,635.12
Fluoride	0.10	0.48	41.91	0.10	0.50	42.41	0.10	0.50	42.92	0.10	0.52	43.44
Magnesium	5.10	24.32	2,636.43	5.10	25.44	2,661.87	4.70	23.69	2,685.56	5.40	28.35	2,713.91
Nitrate(NO3)	0.00	0.00	118.86	0.00	0.00	118.86	0.00	0.00	118.86	0.00	0.00	118.86
Potassium	2.90	13.83	1,176.14	2.90	14.47	1,190.61	2.70	13.61	1,204.22	2.90	15.22	1,219.44
Silica	15.30	72.97	5,037.77	16.10	80.31	5,118.08	14.00	70.56	5,188.63	16.10	84.52	5,273.16
Sodium	38.60	184.09	15,024.26	37.60	187.55	15,211.81	34.50	173.87	15,385.68	38.40	201.60	15,587.28
Sulfate	185.00	882.32	95,739.52	176.00	877.88	96,617.40	166.00	836.61	97,454.01	169.00	887.24	98,341.25
TDS	410.00	1955.40	196,191.34	401.00	2000.17	198,191.51	408.00	2056.25	200,247.76	435.00	2283.73	202,531.49
TRACE METALS												
Aluminum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barium	0.00	0.00	1.53	0.00	0.00	1.53	0.00	0.00	1.53	0.00	0.00	1.53
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.00	0.40
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.59	0.00	0.00	0.59	0.00	0.00	0.59	0.00	0.00	0.59
Cobalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Copper	0.00	0.00	0.70	0.00	0.00	0.70	0.00	0.00	0.70	0.00	0.00	0.70
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.10	0.48	29.36	0.08	0.40	29.76	0.08	0.40	30.16	0.07	0.37	30.53
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.05	0.24	24.81	0.05	0.25	25.06	0.04	0.20	25.26	0.04	0.21	25.47
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.17	0.00	0.00	0.17	0.00	0.00	0.17	0.00	0.00	0.17
Nickel	0.00	0.00	0.81	0.00	0.00	0.81	0.00	0.00	0.81	0.00	0.00	0.81
Selenium	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12
Silver	0.00	0.00	0.56	0.00	0.00	0.56	0.00	0.00	0.56	0.00	0.00	0.56
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.55	0.00	0.00	0.55	0.00	0.00	0.55	0.00	0.00	0.55
Zinc	0.00	0.00	7.49	0.00	0.00	7.49	0.00	0.00	7.49	0.00	0.00	7.49
RADIOMETRICS												
Uranium (mg/l)	0.01	0.03	4.41	0.01	0.03	4.45	0.01	0.03	4.48	0.01	0.03	4.50

TMW-18												
BATTLE SPRING AQUIFER												
CONTAMINANTS REMOVE	2017											
DATE FS	11-Jan-17			19-Apr-17			31-Jul-17			16-Oct-17		
(Started pumping 10/8/86)		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		1,520,040	140331261		1,567,800	141,899,061		1,535,410	143,434,471		1,614,810	145,049,281
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS												
Bicarbonate	438.00	2520.24	284254.35	421.00	2498.54	286752.88	346.00	2011.01	288763.89	442.00	2701.82	291465.71
Calcium	464.00	2669.85	305252.89	416.00	2468.86	307721.76	450.00	2615.47	310337.23	437.00	2671.26	313008.49
Carbonate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloride	85.00	489.09	48158.77	82.00	486.65	48645.42	80.00	464.97	49110.39	80.00	489.02	49599.41
Fluoride	0.00	0.00	6.59	0.00	0.00	6.59	0.00	0.00	6.59	0.00	0.00	6.59
Magnesium	42.70	245.69	21492.62	41.30	245.11	21737.73	42.40	246.44	21984.16	43.30	264.68	22248.84
Nitrate(NO3)	0.00	0.00	173.01	0.00	0.00	173.01	0.00	0.00	173.01	0.00	0.00	173.01
Potassium	6.20	35.67	3520.77	6.10	36.20	3556.97	5.90	34.29	3591.26	6.30	38.51	3629.77
Silica	21.00	120.83	11999.31	21.50	127.60	12126.91	20.10	116.82	12243.74	20.20	123.48	12367.21
Sodium	95.80	551.23	48401.71	94.40	560.24	48961.96	93.60	544.02	49505.97	96.50	589.88	50095.85
Sulfate	1090.00	6271.84	632645.50	1010.00	5994.12	638639.62	940.00	5463.43	644103.05	955.00	5837.65	649940.70
TDS	2010.00	11565.49	1265462.63	1970.00	11691.49	1277154.13	1990.00	11566.20	1288720.32	1920.00	11736.42	1300456.75
TRACE METALS												
Aluminum	0.00	0.00	59.53	0.00	0.00	59.53	0.00	0.00	59.53	0.00	0.00	59.53
Arsenic	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08
Barium	0.00	0.00	1.52	0.00	0.00	1.52	0.00	0.00	1.52	0.00	0.00	1.52
Beryllium	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08
Boron	0.00	0.00	3.52	0.00	0.00	3.52	0.00	0.00	3.52	0.00	0.00	3.52
Cadmium	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12
Chromium	0.00	0.00	1.90	0.00	0.00	1.90	0.00	0.00	1.90	0.00	0.00	1.90
Cobalt	0.00	0.01	0.59	0.00	0.00	0.59	0.00	0.00	0.59	0.00	0.00	0.59
Copper	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.75	0.00	0.00	0.75
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	9.10	52.36	3584.80	8.72	51.75	3636.56	8.53	49.58	3686.13	9.58	58.56	3744.69
Lead	0.00	0.00	1.57	0.00	0.00	1.57	0.00	0.00	1.57	0.00	0.00	1.57
Manganese	1.48	8.52	593.94	1.53	9.08	603.02	1.47	8.54	611.57	1.60	9.78	621.35
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.06
Nickel	0.00	0.00	2.64	0.00	0.00	2.64	0.00	0.00	2.64	0.00	0.00	2.64
Selenium	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00	0.45
Silver	0.00	0.00	0.48	0.00	0.00	0.48	0.00	0.00	0.48	0.00	0.00	0.48
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	2.36	0.00	0.00	2.36	0.00	0.00	2.36	0.00	0.00	2.36
Zinc	0.00	0.00	7.91	0.00	0.00	7.91	0.02	0.12	8.02	0.01	0.06	8.08
RADIOMETRICS												
Uranium (mg/l)	0.00	0.01	2.24	0.00	0.01	2.25	0.00	0.01	2.26	0.00	0.01	2.26

TMW-57												
CONTAMINANTS REMOVED												
PERCHED AQUIFER WELL	2017											
DATE FS	2/22/17			4/19/17			7/31/17			10/24/17		
(Started pumping May 2001)		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		0	27,899,490		603,080	28,502,570		535,800	29,038,370		181,130	29,219,500
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
MAJOR IONS	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
Bicarbonate	107.00	0.00	13,824.16	125.00	285.36	14109.53	112.00	227.16	14336.69	129.00	88.45	14425.14
Calcium	53.00	0.00	12,096.70	74.60	170.30	12267.01	78.30	158.81	12425.82	78.50	53.82	12479.64
Carbonate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloride	7.00	0.00	1,324.94	7.00	15.98	1340.92	7.00	14.20	1355.11	7.00	4.80	1359.91
Fluoride	0.10	0.00	14.46	0.10	0.23	14.69	0.10	0.20	14.89	0.10	0.07	14.96
Magnesium	3.50	0.00	914.15	5.30	12.10	926.25	5.30	10.75	937.00	5.80	3.98	940.97
Nitrate(NO3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Potassium	2.40	0.00	341.00	2.60	5.94	346.94	2.60	5.27	352.21	2.70	1.85	354.06
Silica	14.90	0.00	1,455.77	13.80	31.50	1487.27	12.60	25.56	1512.83	14.30	9.80	1522.63
Sodium	27.80	0.00	4,108.10	33.50	76.48	4184.58	33.00	66.93	4251.51	34.10	23.38	4274.89
Sulfate	111.00	0.00	28,747.46	187.00	426.90	29174.37	169.00	342.77	29517.14	177.00	121.36	29638.50
TDS	265.00	0.00	56,666.13	396.00	904.03	57570.16	401.00	813.32	58383.48	423.00	290.03	58673.51
TRACE METALS												
Aluminum	0.00	0.00	0.41	0.00	0.00	0.41	0.00	0.00	0.41	0.00	0.00	0.41
Arsenic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25	0.00	0.00	0.25
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.04
Cobalt	0.00	0.00	0.60	0.00	0.00	0.60	0.00	0.00	0.61	0.00	0.00	0.61
Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.08	0.00	25.14	0.00	0.00	25.14	0.00	0.00	25.14	0.11	0.08	25.22
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.04	0.00	12.92	0.06	0.14	13.05	0.06	0.12	13.17	0.06	0.04	13.22
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.65	0.00	0.00	0.65	0.00	0.00	0.65	0.00	0.00	0.65
Selenium	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc	0.00	0.00	0.93	0.01	0.02	0.95	0.02	0.04	0.99	0.00	0.00	0.99
RADIOMETRICS												
Uranium (mg/l)	0.00	0.00	0.69	0.01	0.01	0.70	0.01	0.01	0.71	0.01	0.00	0.72

TMW-58 Sheet 2												
BATTLE SPRING AQUIFER												
CONTAMINANTS REMOVED	2017											
DATE FS	22-Feb-17			19-Apr-17			31-Jul-17			16-Oct-17		
(Started pumping 6/20/94)		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		-	53,401,260		1,042,610	54,443,870		1,098,250	55,542,120		496,730	56,038,850
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
MAJOR IONS	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
Bicarbonate	129.00	0.00	43,745.02	179.00	706.46	44451.49	173.00	719.22	45170.70	215.00	404.27	45574.97
Calcium	120.00	0.00	48,983.30	190.00	749.87	49733.18	209.00	868.88	50602.06	215.00	404.27	51006.33
Carbonate	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloride	16.00	0.00	6,342.64	31.00	122.35	6464.98	31.00	128.88	6593.86	35.00	65.81	6659.67
Fluoride	0.10	0.00	18.71	0.00	0.00	18.71	0.10	0.42	19.12	0.00	0.00	19.12
Magnesium	8.40	0.00	3,782.89	15.00	59.20	3842.09	16.90	70.26	3912.35	16.90	31.78	3944.13
Nitrate(NO3)	0.00	0.00	4.52	0.00	0.00	4.52	0.00	0.00	4.52	0.00	0.00	4.52
Potassium	3.30	0.00	887.14	3.90	15.39	902.53	4.00	16.63	919.16	4.10	7.71	926.87
Silica	13.70	0.00	3,096.57	14.70	58.02	3154.59	15.10	62.78	3217.37	15.30	28.77	3246.13
Sodium	42.50	0.00	11,182.65	51.90	204.83	11387.48	55.10	229.07	11616.55	55.40	104.17	11720.72
Sulfate	299.00	0.00	113,207.02	501.00	1977.30	115184.32	480.00	1995.52	117179.84	528.00	992.81	118172.65
TDS	574.00	0.00	215,883.37	934.00	3686.23	219569.60	991.00	4119.91	223689.51	996.00	1872.81	225562.31
TRACE METALS												
Aluminum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	2.09	0.00	0.00	2.09	0.00	0.00	2.09	0.00	0.00	2.09
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.22
Cobalt	0.00	0.00	0.32	0.00	0.00	0.32	0.00	0.00	0.32	0.00	0.00	0.32
Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.13	0.00	89.30	0.48	1.89	91.19	0.61	2.54	93.73	0.53	1.00	94.72
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.08	0.00	41.70	0.18	0.71	42.41	0.19	0.79	43.20	0.20	0.38	43.57
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.30	0.00	0.00	0.30	0.00	0.00	0.30	0.00	0.00	0.30
Selenium	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19
Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.10
Zinc	0.00	0.00	4.23	0.00	0.00	4.23	0.00	0.00	4.23	0.16	0.30	4.53
RADIOMETRICS												
Uranium (mg/l)	0.01	0.00	3.17	0.01	0.05	3.22	0.01	0.05	3.27	0.01	0.02	3.30

TMW-59													
CONTAMINANTS REMOVED		2017											
DATE FS		11-Jan-17			19-Apr-17			31-Jul-17			9-Oct-17		
(Started pumping 9/1/88)	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE	45,361,284		1,179,160	73,784,654		1,175,260	74,959,914		989,440	75,949,354		887,670	76,837,024
CONSTITUENTS	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS													
Bicarbonate	65596.81	319.00	1423.89	100642.01	304.00	1352.45	101994.46	251.00	940.10	102934.57	326.00	1095.42	104029.99
Calcium	94351.65	426.00	1901.50	144053.48	393.00	1748.40	145801.88	393.00	1471.96	147273.83	365.00	1226.47	148500.31
Carbonate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00	33.71	33.71	0.00	0.00	33.71
Chloride	13896.08	72.00	321.38	22351.70	72.00	320.32	22672.02	65.00	243.45	22915.47	71.00	238.57	23154.05
Fluoride	20.24	0.30	1.34	42.21	0.20	0.89	43.10	0.30	1.12	44.22	0.30	1.01	45.23
Magnesium	11279.09	57.60	257.10	18154.25	56.30	250.47	18404.72	55.30	207.12	18611.84	53.90	181.11	18792.95
Nitrate(NO3)	15.74	0.00	0.00	15.74	0.00	0.00	15.74	0.00	0.00	15.74	0.00	0.00	15.74
Potassium	1193.71	6.80	30.35	1979.24	7.00	31.14	2010.38	6.20	23.22	2033.60	6.10	20.50	2054.10
Silica	3354.26	17.60	78.56	5347.83	16.90	75.19	5423.01	15.80	59.18	5482.19	17.10	57.46	5539.65
Sodium	15502.81	90.10	402.17	25564.28	89.00	395.95	25960.22	84.60	316.86	26277.09	82.30	276.54	26553.63
Sulfate	242066.63	1140.00	5088.51	378333.08	1140.00	5071.68	383404.76	1000.00	3745.44	387150.20	1090.00	3662.61	390812.81
TDS	438312.33	2050.00	9150.39	686275.87	2020.00	8986.66	695262.53	2020.00	7565.78	702828.32	2010.00	6753.99	709582.31
TRACE METALS													
Aluminum	1.48	0.00	0.00	1.93	0.00	0.00	1.93	0.00	0.00	1.93	0.00	0.00	1.93
Arsenic	0.01	0.00	0.00	0.03	0.00	0.01	0.04	0.00	0.00	0.04	0.00	0.00	0.05
Barium	0.94	0.00	0.00	0.94	0.00	0.00	0.94	0.00	0.00	0.94	0.00	0.00	0.94
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	5.95	0.00	0.00	6.80	0.00	0.00	6.80	0.00	0.00	6.80	0.00	0.00	6.80
Cadmium	0.03	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03
Chromium	0.22	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.22
Cobalt	2.16	0.01	0.03	3.00	0.01	0.02	3.02	0.00	0.01	3.03	0.01	0.02	3.06
Copper	0.19	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19	0.00	0.00	0.19
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	5579.27	36.90	164.71	10340.16	36.40	161.94	10502.10	32.00	119.85	10621.96	32.40	108.87	10730.83
Lead	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12
Manganese	611.97	3.11	13.88	1014.87	3.34	14.86	1029.73	3.08	11.54	1041.27	2.94	9.88	1051.14
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.26	0.00	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.26
Nickel	2.73	0.01	0.04	2.99	0.03	0.13	3.12	0.00	0.00	3.12	0.00	0.00	3.12
Selenium	0.16	0.00	0.00	0.18	0.00	0.00	0.18	0.00	0.00	0.18	0.00	0.01	0.19
Silver	0.06	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.06	0.00	0.00	0.06
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.03	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.03
Zinc	2.82	0.05	0.22	3.35	0.00	0.00	3.35	0.01	0.04	3.38	0.02	0.07	3.45
RADIOMETRICS													
Uranium (mg/l)	1.54	0.01	0.05	2.71	0.01	0.06	2.77	0.01	0.05	2.82	0.01	0.05	2.86

TMW-75												
CONTAMINANTS REMOVED	2017											
DATE FS	11-Jan-17			19-Apr-17			31-Jul-17			24-Oct-17		
(Started pumping 5/1/88)		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		267,070	63,875,530		323,560	64,199,090		302,090	64,501,180		400,870	64,902,050
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS												
Bicarbonate	150.00	151.65	43451.49	146.00	178.82	43630.31	133.00	152.09	43782.40	150.00	227.62	44010.02
Calcium	109.00	110.20	40250.00	107.00	131.05	40381.05	104.00	118.93	40499.98	111.00	168.44	40668.42
Carbonate	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloride	15.00	15.16	5751.70	16.00	19.60	5771.30	15.00	17.15	5788.45	14.00	21.24	5809.70
Fluoride	0.10	0.10	31.81	0.10	0.12	31.94	0.10	0.11	32.05	0.10	0.15	32.20
Magnesium	8.60	8.69	3102.75	8.30	10.17	3112.91	8.20	9.38	3122.29	8.80	13.35	3135.65
Nitrate(NO3)	0.00	0.00	34.27	0.00	0.00	34.27	0.00	0.00	34.27	0.00	0.00	34.27
Potassium	3.10	3.13	865.99	3.20	3.92	869.91	2.90	3.32	873.22	3.10	4.70	877.93
Silica	14.30	14.46	3674.62	14.80	18.13	3692.74	13.10	14.98	3707.72	14.60	22.15	3729.88
Sodium	43.00	43.47	11884.90	42.30	51.81	11936.71	38.60	44.14	11980.85	43.00	65.25	12046.10
Sulfate	269.00	271.95	89595.14	266.00	325.80	89920.94	252.00	288.17	90209.11	256.00	388.47	90597.58
TDS	541.00	546.93	183745.67	546.00	668.75	184414.41	563.00	643.81	185058.22	562.00	852.81	185911.03
TRACE METALS												
Aluminum	0.00	0.00	0.44	0.00	0.00	0.44	0.00	0.00	0.44	0.00	0.00	0.44
Arsenic	0.00	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.07
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	1.23	0.00	0.00	1.23	0.00	0.00	1.23	0.00	0.00	1.23
Cadmium	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08
Chromium	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Cobalt	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02
Copper	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08	0.00	0.00	0.08
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.20	0.20	34.08	0.15	0.18	34.26	0.20	0.23	34.49	0.15	0.23	34.72
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.09	0.09	27.47	0.09	0.11	27.58	0.10	0.11	27.70	0.09	0.14	27.83
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.26	0.00	0.00	0.26
Nickel	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00	0.45	0.00	0.00	0.45
Selenium	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12
Silver	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc	0.00	0.00	2.58	0.05	0.06	2.64	0.00	0.00	2.64	0.00	0.00	2.64
RADIOMETRICS												
Uranium (mg/l)	0.01	0.01	12.17	0.02	0.02	12.19	0.02	0.02	12.21	0.01	0.02	12.23

TMW-96												
CONTAMINANTS REMOVED	2017											
DATE FS	8-Mar-17			18-Apr-17			31-Jul-17			17-Oct-17		
Started pumping June 30, 2005		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		0	21,535,001		568,910	22,103,911		799,790	22,903,701		299,240	23,202,941
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS												
Bicarbonate	153.00	0.00	11833.78	149.00	320.88	12154.66	135.00	408.72	12563.38	156.00	176.71	12740.09
Calcium	328.00	0.00	15210.78	188.00	404.87	15615.64	185.00	560.09	16175.74	177.00	200.50	16376.23
Carbonate	0.00	0.00	3.01	0.00	0.00	3.01	0.00	0.00	3.01	0.00	0.00	3.01
Chloride	96.00	0.00	2352.51	30.00	64.61	2417.11	29.00	87.80	2504.91	27.00	30.58	2535.49
Fluoride	0.10	0.00	8.21	0.10	0.22	8.42	0.10	0.30	8.73	0.10	0.11	8.84
Magnesium	50.40	0.00	1132.04	13.80	29.72	1161.76	12.10	36.63	1198.39	12.00	13.59	1211.99
Nitrate(NO3)	2.70	0.00	7.58	0.00	0.00	7.58	0.00	0.00	7.58	0.00	0.00	7.58
Potassium	5.30	0.00	322.84	3.90	8.40	331.24	3.50	10.60	341.83	3.60	4.08	345.91
Silica	12.30	0.00	1128.97	14.40	31.01	1159.99	12.60	38.15	1198.13	13.20	14.95	1213.08
Sodium	99.10	0.00	4229.20	53.50	115.22	4344.41	49.10	148.65	4493.07	48.10	54.49	4547.55
Sulfate	1010.00	0.00	38010.93	463.00	997.10	39008.02	468.00	1416.89	40424.91	445.00	504.07	40928.98
TDS	1680.00	0.00	69874.10	867.00	1867.14	71741.24	906.00	2742.95	74484.18	886.00	1003.61	75487.80
TRACE METALS												
Aluminum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	0.38	0.00	0.00	0.38	0.00	0.00	0.38	0.00	0.00	0.38
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cobalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.00	0.00	3.33	0.00	0.00	3.33	0.07	0.21	3.54	0.11	0.12	3.67
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.06	0.00	8.93	0.12	0.26	9.19	0.13	0.39	9.59	0.11	0.12	9.71
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.02
Selenium	0.17	0.00	0.60	0.01	0.01	0.61	0.00	0.01	0.63	0.00	0.00	0.63
Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc	0.00	0.00	0.28	0.08	0.17	0.46	0.01	0.03	0.49	0.00	0.00	0.49
RADIOMETRICS												
Uranium (mg/l)	0.62	0.00	6.11	0.04	0.09	6.21	0.02	0.07	6.28	0.03	0.03	6.31

TMW-97												
CONTAMINANTS REMOVED	2017											
DATE FS	8-Mar-17			6-Jun-17			13-Sep-17			1-Nov-17		
Started pumping 9/6/05		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE		VOLUME 2017	CUMULATIVE
GALLONAGE		0	26,566,710		880,610	27,447,320		909,800	28,357,120		295,070	28,652,190
CONSTITUENTS	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED	ANALYSIS	QUANTITY REMOVED	QUANTITY REMOVED
	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)	(PPM)	(KG)	(KG)
MAJOR IONS												
Bicarbonate	152.00	0.00	12703.62	126.00	420.02	13123.63	123.00	423.61	13547.24	128.00	142.97	13690.21
Calcium	316.00	0.00	15807.25	162.00	540.02	16347.28	164.00	564.81	16912.09	174.00	194.35	17106.44
Carbonate	0.00	0.00	4.70	0.00	0.00	4.70	0.00	0.00	4.70	0.00	0.00	4.70
Chloride	63.00	0.00	2228.50	29.00	96.67	2325.17	29.00	99.88	2425.04	28.00	31.27	2456.32
Fluoride	0.00	0.00	12.31	0.10	0.33	12.64	0.10	0.34	12.98	0.10	0.11	13.09
Magnesium	38.00	0.00	1167.87	11.70	39.00	1206.87	11.90	40.98	1247.85	12.30	13.74	1261.59
Nitrate(NO3)	0.00	0.00	1.04	0.00	0.00	1.04	0.00	0.00	1.04	0.00	0.00	1.04
Potassium	5.00	0.00	359.16	3.70	12.33	371.49	3.50	12.05	383.55	3.70	4.13	387.68
Silica	14.80	0.00	1425.76	14.10	47.00	1472.76	13.60	46.84	1519.60	14.90	16.64	1536.24
Sodium	80.80	0.00	4686.00	50.30	167.67	4853.67	50.80	174.95	5028.62	50.60	56.52	5085.14
Sulfate	917.00	0.00	38181.70	442.00	1473.39	39655.10	416.00	1432.69	41087.79	422.00	471.36	41559.15
TDS	1490.00	0.00	72378.42	800.00	2666.78	75045.20	778.00	2679.41	77724.61	792.00	884.63	78609.24
TRACE METALS												
Aluminum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arsenic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Beryllium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cadmium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cobalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Copper	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyanide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron	0.67	0.00	9.00	0.13	0.43	9.43	0.20	0.69	10.12	0.23	0.26	10.38
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese	0.26	0.00	11.08	0.11	0.37	11.44	0.12	0.41	11.86	0.12	0.13	11.99
Mercury	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Selenium	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Silver	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thallium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanadium	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zinc	0.02	0.00	0.12	0.00	0.00	0.12	0.00	0.00	0.12	0.05	0.06	0.18
RADIOMETRICS												
Uranium (mg/l)	0.29	0.00	4.47	0.04	0.13	4.60	0.04	0.14	4.74	0.04	0.04	4.78

Appendix 2

Inspection of Diversion Channel



July 13, 2017

Via Electronic Mail

Oscar Paulson
Sweetwater Uranium Company
P.O. Box 1500
Rawlins, Wyoming 82301-1500

Subject: 2017 Inspection of Diversion Channel

Dear Oscar:

OVERVIEW AND OBJECTIVE

On June 2, 2017, I inspected the Sweetwater Uranium Project diversion channel, located east of the tailings impoundment. The diversion channel was designed to divert Battle Spring Draw runoff around the impoundment during facility operations and standby. It will be modified, or a new channel constructed, during site reclamation to divert Probable Maximum Precipitation runoff around the tailings impoundment. I have performed the annual inspections since 1994, with the exception of 2014, and have documented the characteristics of the diversion channel, observing processes in bed and bank erosion or deposition. The objective of the annual inspection is to determine whether the channel is performing as designed and whether any maintenance is required to allow continued functioning as designed. The attached Figure 1 is an aerial image from Google Earth from June 2014, depicting the location of the diversion channel relative to the tailings impoundment.

The discussion below is organized by five identifiable channel reaches observed to have formed within the channel since its 1980 construction. The berm located to the west of the channel is comprised of soil material excavated from the channel. The berm is a stable feature—erosion from the sides of the berm is negligible and native vegetation is growing across the entire berm.

REACH 1

This most upstream reach is approximately 350 feet in length and is characterized by the deposition of sand on the channel's bed (see the attached Photograph 1). The sand is derived from headcutting that has occurred at the entrance to the channel (Photograph 2). The extent of headcutting does not appear to have progressed northward since my last

Colorado Office (Corporate)

3801 Automation Way, Suite 201
Fort Collins, Colorado 80525
970-484-7704 / 970-484-7789 (FAX)

Grand Junction

751 Horizon Court, Suite 109
Grand Junction, Colorado 81506
970-697-1550

New Mexico Office

1303 Pope Street
Silver City, New Mexico 88061
575-538-5620 / 575-538-5625 (FAX)

observations in 2016. The banks of the channel in this reach are stable, with the exception of the entrance headcutting at the north and northeast margins of the channel.

REACH 2

The second reach, progressing downstream, is approximately 150 feet in length. Sand from Reach 1 has been transported to the upper portion of Reach 2 (Photograph 3). It has a shallow low-flow channel, approximately 3 to 4 feet in width, which meanders across the channel bottom. This reach has more vegetation on the bed than the first reach, which provides some control against erosion (Photograph 3). The banks in this reach exhibit very little erosion.

REACH 3

This middle reach is approximately 470' long, has the greatest percentage of channel bed covered by vegetation, and has no observable low flow channel (see Photograph 4). The banks of this reach have two to three specific locations where stormwater or snowmelt runoff enters the channel from the side, creating rill erosion with consequent local fan deposition of bank sediments (Photograph 5). These localized influences have little impact on the overall functioning of the channel to convey storm flow.

REACH 4

Reach 4 is approximately 460 feet in length. It has less bed vegetation than Reaches 2 and 3, and has a shallow low flow channel. A sandstone outcrop is visible along the bed of the diversion channel near the downstream end of the reach (Photograph 6). The bed in the vicinity of the outcrop has not changed over the course of my inspections; it is neither experiencing sedimentation that might bury the outcrop nor is it experiencing erosional scour which would expose more of the outcrop. Reach 4 has also experienced some minor, localized rill erosion along the banks where runoff enters the channel (Photograph 7).

REACH 5

This most downstream reach, about 470 feet in length, begins near the location of the sandstone outcrop. Reach 5 has more grass in its bed than Reach 4 and little evidence of a low flow channel (Photograph 8). The bed material is more clayey than elsewhere, which may be evidence of some minor deposition as the channel transitions to its outlet. The banks are shorter in this reach, and exhibit localized, minor rill erosion.

SUMMARY

Bank erosion throughout the length of the diversion channel occurs as localized rilling where runoff enters the channel. Where bank erosion occurs, a sandy, localized alluvial fan of bank soils deposits on the bed. However, bank erosion effects do not impact the overall functioning of the channel. Larger scale bank erosion, which might produce lateral migration of the channel, is not occurring.

Little evidence of change in the channel's overall form has been observed from the May 2016 inspection to the June 2, 2017 inspection, either in terms of vertical adjustment of the channel bed or in terms of lateral movement of the channel's banks. The diversion channel's capacity has not decreased measurably since its construction, and the channel is expected to continue to operate as designed.

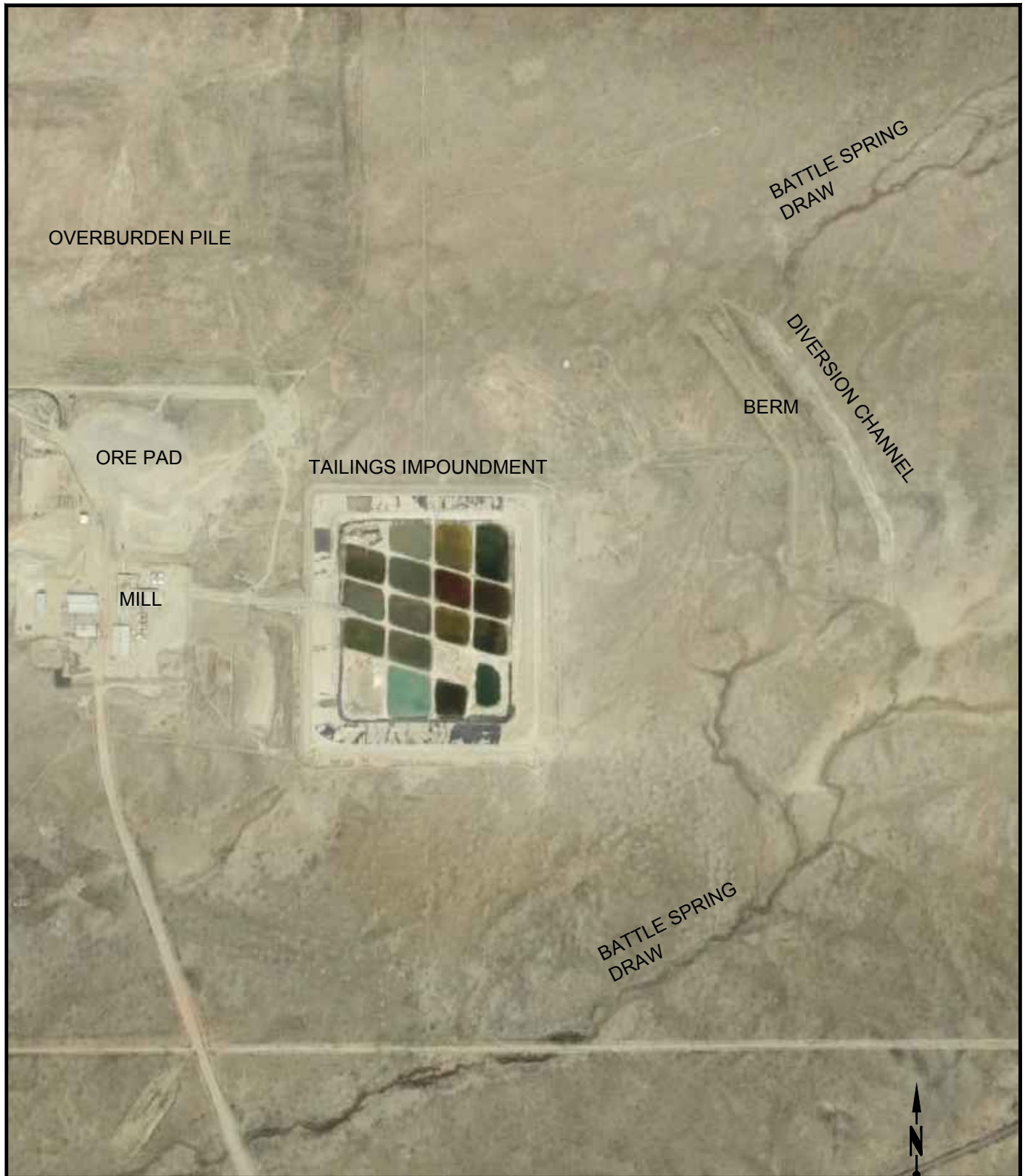
If you have any questions, please do not hesitate to contact me.

Sincerely,
Telesto Solutions, Inc.

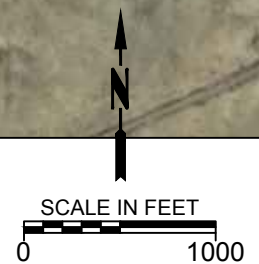


Kent Bruxvoort, P.E.
Senior Engineer

KJB



REFERENCE INFORMATION:
AERIAL PHOTO PER GOOGLE
EARTH- JUNE 2014



PROJECT: 451101	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 1
AERIAL IMAGE OF FACILITY (6/2014)

PREPARED FOR:
SWEETWATER
URANIUM
FACILITY



PLACE PATH AND FILE NAME OF POWERPOINT FILE HERE

PROJECT: -	TASK: -
PREPARED BY:	
TELESTO <small>SOLUTIONS INCORPORATED</small>	

PHOTO 1, REACH 1, LOOKING UPSTREAM
PHOTO 2, REACH 1, ENTRANCE

PREPARED FOR:
RioTinto



PLACE PATH AND FILE NAME OF POWERPOINT FILE HERE

PROJECT: -	TASK: -
PREPARED BY:	
TELESTO <small>SOLUTIONS INCORPORATED</small>	

PHOTO 3, REACH 2, LOOKING DOWNSTREAM
PHOTO 4, REACH 3, LOOKING DOWNSTREAM

PREPARED FOR:
RioTinto



PLACE PATH AND FILE NAME OF POWERPOINT FILE HERE

PROJECT: -	TASK: -
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<p>PHOTO 5, REACH 3, BANKS</p> <p>PHOTO 6, REACH 4, BED, LOOKING DOWNSTREAM</p>

<p>PREPARED FOR:</p> <p>RioTinto</p>



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PROJECT: -	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

PHOTO 7, REACH 4, BANKS
PHOTO 8, REACH 5, BED, LOOKING DOWNSTREAM

PREPARED FOR: RioTinto

Appendix 3

**Inspection of Tailings
Impoundment Embankment**



July 13, 2017

Via Electronic Mail

Oscar Paulson
Sweetwater Uranium Company
P.O. Box 1500
Rawlins, Wyoming 82301-1500

Subject: 2017 Inspection of Tailings Impoundment Embankments

Dear Oscar:

OVERVIEW

On June 2, 2017 I inspected the tailings impoundment embankments at the Sweetwater Uranium Facility, both inside and outside the impoundment. These observations were performed so that any conditions adversely affecting performance of the embankments could be noted. Figure 1 presents the impoundment as seen in 2014 aerial photography.

EMBANKMENTS OBSERVATIONS

I observed the interior of the embankments by walking along the entire crest. I observed the exterior of the four tailings embankments by driving slowly around its exterior perimeter and walking to portions of the embankments for closer observation.

The tailings regrading effort that occurred from 2006 - 2008 lowered the formerly elevated beach portions of the tailings and created a number of evaporation lagoons internal to the impoundment. This enhanced the evaporation of tailings fluid and water from the Battle Spring Aquifer which is being pumped into the impoundment as part of the facility's Corrective Action Program. This effort also resulted in a lowering of the water levels within the impoundment. The native ground elevation at the outside perimeter of the tailings impoundment varies from 6,636 feet above mean sea level at the impoundment's southwest corner to 6,658 feet at its northeast corner. Water levels in the various evaporation lagoons vary from approximately 6,629 in the southwest corner inside the impoundment to approximately 6,632 feet in the north-central portion of the impoundment. Figure 2 depicts key elevations within and outside the impoundment. The elevation of the free water within pool at the southeast corner of the impoundment was measured at 6,615.66 feet (NAVD88) on June 1, 2017 (Sweetwater spreadsheets that record elevations with time use the NGVD29 datum to be consistent with the first elevation data collected by Minerals Exploration Company, but ground elevations shown on Figure 2 are based on the NAVD88

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New Mexico Office

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datum). Consequently, given observed fluid elevation data within the impoundment and surrounding ground elevations outside the impoundment, there is almost no potential for tailings fluid to escape through the embankments, even in the event of a hypothetical, catastrophic failure of an embankment.

The embankment ranges in height at its exterior perimeter from about 30 feet at its northeast corner to about 50 feet at its southwest corner. No significant evidence of either settlement or displacement of the embankment was observed during the June 2017 field visit. No erosion of the outer surface of the embankments has occurred that might extend to the crest. Kennecott Uranium Company has continued to monitor and repair as necessary significant rill erosion along the outside of the embankments.

Photograph 1 was taken of the north embankment, the shortest of the four. Little erosion and no settlement is observable for this embankment. Photographs 2 and 3 show the east embankment, including recent repair of rill erosion as depicted in Photograph 3. Photograph 4 was taken of the south embankment, and depicts the overall acceptable condition of the embankment. Photographs 5 and 6 are of the west embankment, depicting the general acceptable condition of the embankment and specific maintenance performed where necessary.

SUMMARY

In summary, embankment conditions were noted to be of a generally acceptable nature; no conditions of concern were noted in the June 2017 observations. No settlement of the crest was observed. No erosional rilling was observed that would extend to the crest. The extent of rilling should continue to be monitored and repaired at any point at which a rill may extend to the crest. Water levels continue to be maintained at a level below the surrounding ground surface.

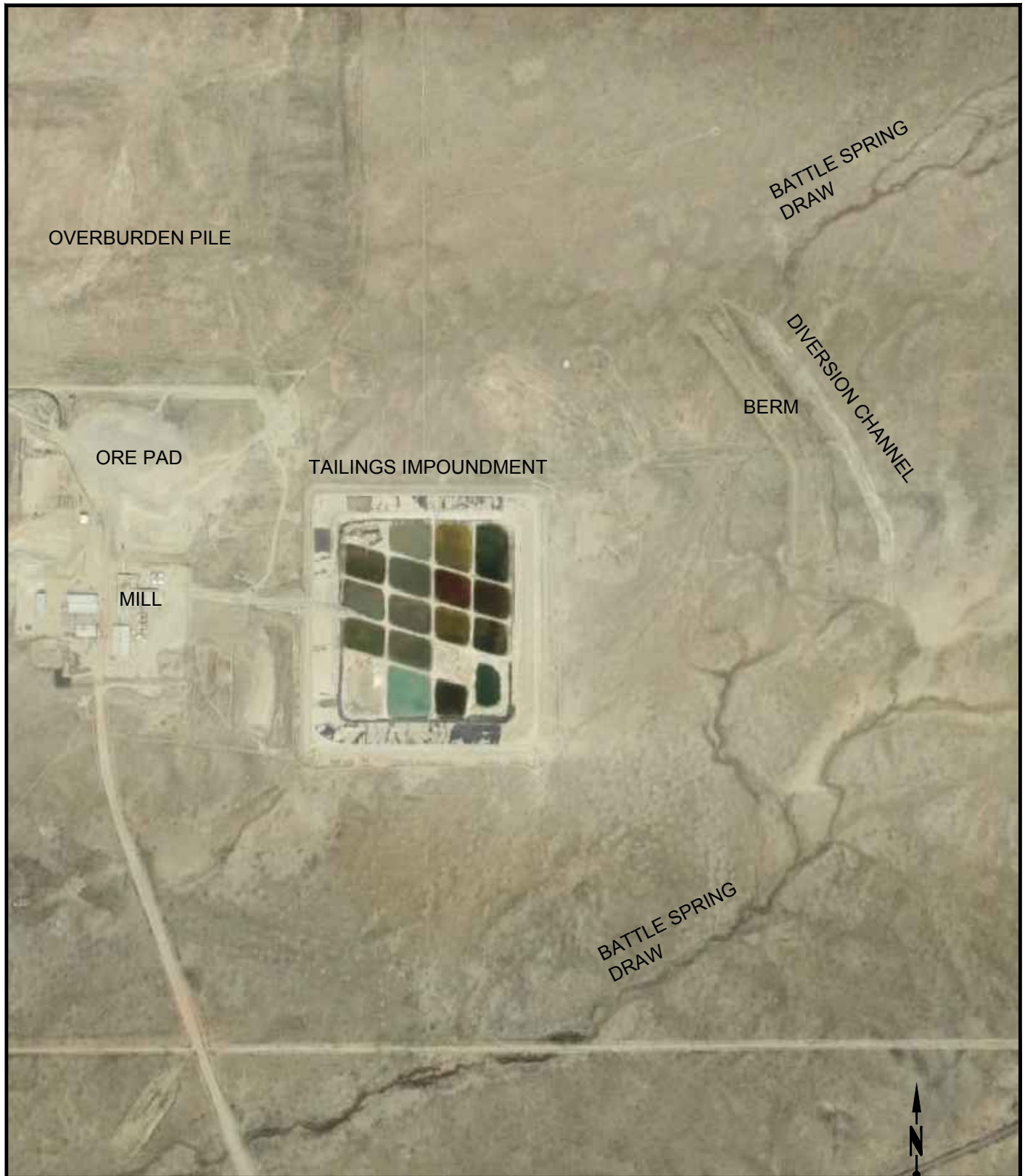
If you have any questions, please do not hesitate to contact me.

Sincerely,
Telesto Solutions, Inc.

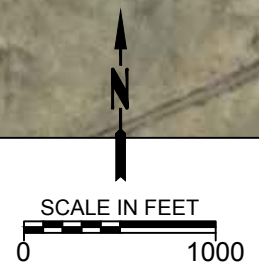


Kent Bruxvoort, P.E.
Senior Engineer

KJB



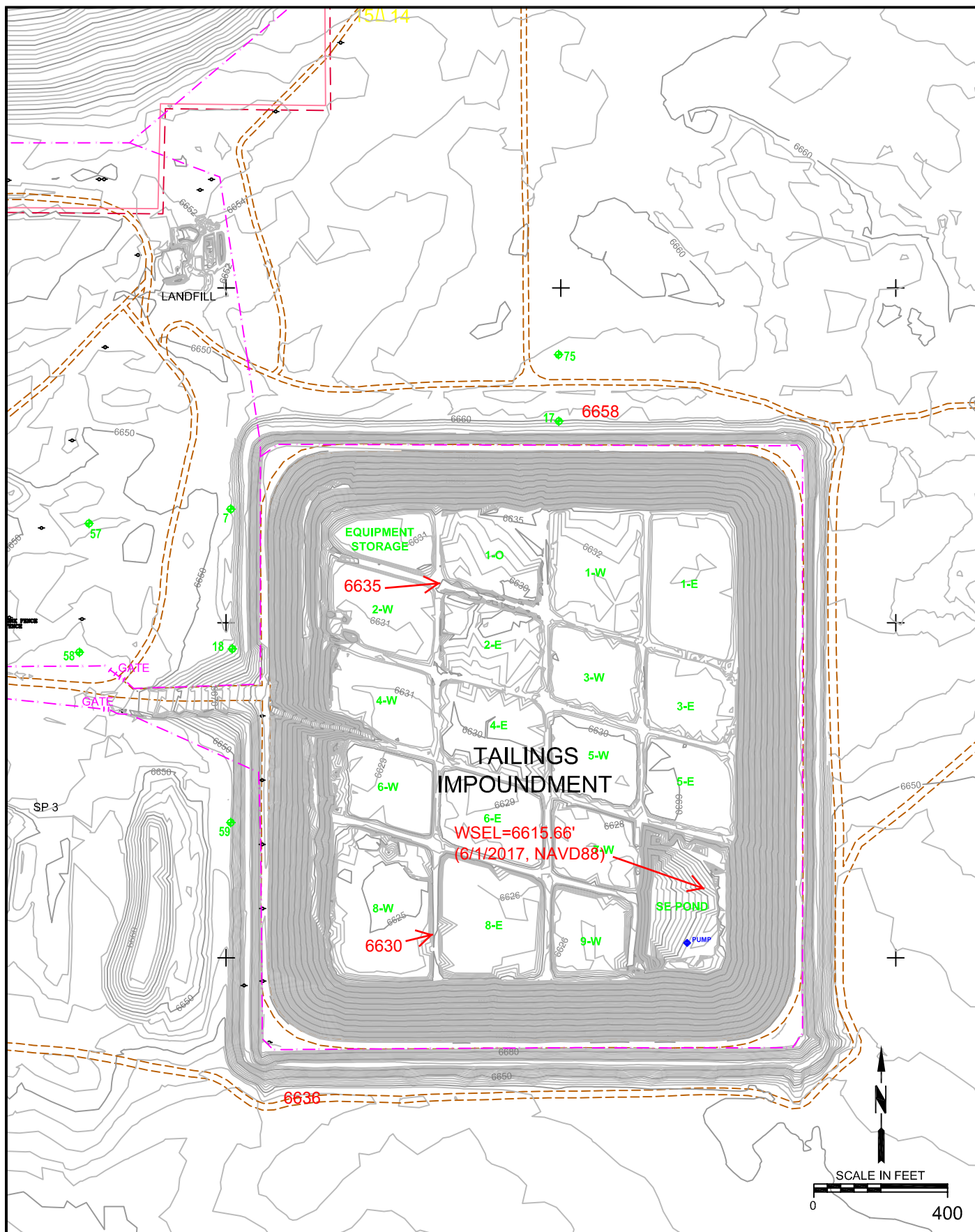
REFERENCE INFORMATION:
AERIAL PHOTO PER GOOGLE
EARTH- JUNE 2014



PROJECT: 451101	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 1
AERIAL IMAGE OF FACILITY (6/2014)

PREPARED FOR: SWEETWATER URANIUM FACILITY
--



PROJECT: 451101	TASK: -
PREPARED BY: TELESTO SOLUTIONS • INCORPORATED	

FIGURE 2
JULY 2009 TAILINGS AREA SURVEY

PREPARED FOR:
SWEETWATER
URANIUM
FACILITY



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PROJECT: -	TASK: -
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PHOTO 1, NORTH EMBANKMENT
PHOTO 2, EAST EMBANKMENT

PREPARED FOR: RioTinto



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PHOTO 3, EAST EMBANKMENT CLOSE-UP
PHOTO 4, SOUTH EMBANKMENT

PREPARED FOR: RioTinto



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PROJECT: -	TASK: -
PREPARED BY:	
TELESTO <small>SOLUTIONS INCORPORATED</small>	

PHOTO 5, WEST EMBANKMENT
PHOTO 6, WEST EMBANKMENT CLOSE-UP

PREPARED FOR:
RioTinto

Appendix 4

Inspection of Tailings Impoundment Liner



July 26, 2017

Via Electronic Mail

Oscar Paulson
Sweetwater Uranium Company
P.O. Box 1500
Rawlins, Wyoming 82301-1500

Subject: 2017 Inspection of Tailings Impoundment

Dear Oscar:

OVERVIEW AND OBJECTIVE

On June 2, 2017 I inspected specific details of the Sweetwater Uranium Project's tailings impoundment liner, per recommendations in a July 13, 1979 letter report from D'Appolonia Consulting Engineers, Inc. D'Appolonia's letter report recommended inspection as follows:

"Annual inspection (by a registered engineer and by a person not involved with the daily inspection) should be made to assess the soil cover at the top of the dike (and at the bench until it is covered by water), assure that the membrane is not being pulled from the trenches, assure that chemical or physical action is not exposing the scrim in the Hypalon, and evaluate the general character of the Hypalon, particularly significant decrease in membrane plyability."

Management activities within the tailings impoundment consist of primarily two objectives: 1) assuring that the existing Hypalon® liner is maintained within five vertical feet of tailings, and 2) assuring that the impoundment receives and evaporates ground water pumped from the Battle Spring Aquifer under the facility's Corrective Action Program (CAP). Evaporation lagoons have been created inside the impoundment to cover tailings and to enhance evaporation of water within the impoundment.

Most of the liner material from within five feet of the tailings upward to the embankment crest has been lost; liner failure at the facility has been documented elsewhere and noted in annual inspection letters since the mid-1990s. Thus, a portion of the original intent of the above D'Appolonia recommendation is no longer applicable. The only operable portions of the key trench at the crest of the embankments are approximate 200-foot segments of

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trench at the west end of the north embankment and north end of the west embankment. Similarly, the only operable portion of the liner at the bench occurs below these two segments of intact liner (see Photograph 1—intact liner can be seen in the middle of the photo and in the back, far left). These segments of liner can also be seen in the aerial photograph of Figure 1. The twofold focus of this letter thus regards the maintenance of the liner within five feet of the tailings or tailings fluid and general management activities within the impoundment.

BACKGROUND

From February 2006 through May 2007 an estimated total of 230,000 cubic yards of additional 11(e).2 soils from the vicinity of the Mill's Catchment Basin were placed near the northeast portion of the impoundment. A ramp was constructed from the west embankment in the center of the impoundment to the tailings surface. During the latter half of 2007 and in 2008 the tailings surface and the additional 11(e).2 soils were regraded. Beach sands were moved from the elevated western edge of the impoundment to the lower eastern portion of the impoundment. Substantial progress was thereby achieved toward meeting tailings management objectives: 1) regrading the tailings to a more regular surface in anticipation of either reclamation or future tailings storage; 2) leveling the tailings to create a surface that is entirely below the bench and essentially below the elevation of the surrounding native ground, more sheltered from wind, and easier to keep moistened; 3) covering the tailings to limit wind erosion potential and radon emanation; and 4) creating stable, flat, bermed areas as evaporation lagoons for tailings dewatering and CAP pumpback water evaporation.

The attached Figure 1 is an aerial photograph of the site (June 2014 aerial image) and Figure 2 presents the existing topography of the tailings impoundment, as surveyed in July 2009. These figures indicate the location of evaporation lagoons. To date, 15 lagoons are being maintained (1-0, 1-W & 1-E, 2-W & 2-E, 3W & 3E, 4W & 4E, 5W & 5E, 6W & 6E, 8-E, and 9-W). Each lagoon is lined with a single polyethylene liner to limit the amount of water that could infiltrate into the tailings which would have to be pumped from the free pool back into the lagoons. Tailings have been placed over the liners to limit wind exposure and related wind damage. Because these lagoons are for fluid management purposes, and are within the impoundment and below the level of maintained Hypalon® liner, temporary loss of lagoon liners is of relatively minor concern. Groundwater protection is provided by the existing Hypalon® liner below the entire tailings impoundment. The free water pool is located in the southeast corner of the impoundment, as seen in Figure 2, and the northwestern corner is dedicated to storage of equipment classified as 11(e).2 byproduct material.

In regrading the tailings, the surface has been everywhere lowered to elevations below the surrounding native ground. The surfaces of the lagoons range in elevation from 6,625 feet

to 6,630 feet, with berm elevations up to approximately 6,635 feet. At the southwest corner of the impoundment, the nearest lagoon berm elevation of approximately 6,630 feet is four feet lower than the elevation of the native ground adjacent to the outside impoundment toe. At the northeast corner, the berm elevation of about 6,635 feet is 23 feet lower than the elevation of the adjacent native ground.

FLUID LEVELS

Fluid into the impoundment includes precipitation and groundwater pumped as part of the CAP. Evaporation from the impoundment has helped to offset these fluid inputs, as shown in Table 1 below. The tailings regrading effort of 2006/2007 also raised the elevation of the tailings surface below the free pool, displacing much of the pool volume. Consequently, elevations of the pool surface measured prior to 2007 cannot be compared to post-2007 elevations without taking into account the tailings regrading; note in Table 1 how the water surface of the pool rose in 2008. The pool elevation on June 1, 2017 was at an elevation of 6,615.66 feet (NAVD88; = 6,612.69 NGVD29). The free pool can be seen in the center of Photograph 2.

During 2016 a total of 26,811,900 gallons of groundwater were pumped into the impoundment. Table 2 presents pumpback volume data from 1986 through May 9, 2017. During each year the pumpback system is monitored and managed to limit the volume of pumpback water to a maximum defined by the CAP. This maximum was raised from 25,000,000 to 27,000,000 gallons by Safety and Environmental Evaluation (SEE) #23, "Establishment of Annual Pumpback Volume Based upon Tailings Impoundment Evaporative Capacity." The rationale for this increase is the additional evaporative capacity afforded by the 15 lined lagoons, and the increase became effective on June 1, 2013.

INSPECTION OVERVIEW

Photographs 1 through 8 depict the condition of the impoundment observed on June 2, 2017. The visual inspection was performed by driving slowly around the crest of the impoundment, by walking along the entire crest, and by walking along the bench where it could be safely walked.

TAILINGS/FLUID SURFACE TO BENCH

The liner has been damaged below the bench along the east, north, and west embankments. However, the liner within five vertical feet of the tailings or tailings fluid surface has been maintained intact. The liner remains, by observation, plyable. There is no evidence of exposed scrim by either physical or chemical means. Photograph 1 shows an example of liner repair within five vertical feet of the tailings or tailings fluid surface. The liner along the southern embankment was covered with sandbag weights in Spring 2015 as a

preventive measure against buffeting in windy conditions, and these sandbag weights remain as of the June 2, 2017 observation date (Photograph 2). Photograph 3 shows the liner below the bench along the southern embankment, looking east, in the lower left portion of the photograph, and shows sections of damaged liner above the bench. Photograph 4 shows the east embankment and the maintained liner within five vertical feet of the tailings, with the non-existent liner above that.

Geomembrane testing was performed by Golder Associates, Inc. (Golder) and TRI Environmental in June 2016, which was also reported in Telesto's 2016 inspection letter. At that time, I photographed and observed the condition of the liner section prior to shipment for testing. I noted that the liner section was observed to be plyable and that scrim was not exposed. Testing results and trend analysis as plotted by Golder with the 2016 testing are attached to this letter for reference. Results may be summarized as follows:

- The 2016 testing reflected the first period of testing in which less than 100% of the samples passed the test for low temperature bend
- Hardness tested slightly lower than the standard
- Tear resistance continues to track lower than the standard
- Breaking strength remains above the standard
- Hydrostatic resistance remains above the standard
- Thickness measures above the standard

Tests of liner properties indicate that the liner does not currently meet standards for low temperature bend, hardness, and tear resistance; and does meet standards for breaking strength, hydrostatic resistance, and thickness. The testing results show the liner's increasing susceptibility to tear due to opposing kinetic forces (as can occur during very windy conditions when the liner may billow), to brittleness during extreme cold weather, and to indentation from point source loads. The testing results also show that the liner has retained its original thickness, and remains resistant to leakage due to high pressure forces, and to breakage due to longitudinal loading.

Kennecott Uranium Company (KUC) performs daily and weekly inspections of the liner in accordance with License Condition 10.6, which states in part, "*during any period of mill standby at least a weekly inspection of the tailings area shall be performed and documented.*" Given KUC's active program to inspect and maintain the liner, the liner should be expected to continue to function as intended. Nonetheless, we recommend that Kennecott Uranium Company continue to protect the liner against billowing during high winds by maintaining the sandbag weights program. We note that cold weather brittleness is generally mitigated by the absence of vehicle traffic and by minimizing foot traffic at all times, especially during extremely cold days.

BENCH TO CREST

The bench, after tailings regrading, is everywhere exposed (except where under the ramp). The bench is observed to be functioning as designed only along the southern embankment. Elsewhere the key trench along the bench is rendered as non-functioning due to liner tears.

Between the bench and the crest of the impoundment, the liner is essentially no longer functional along any of the four sides of the embankment. Photographs 5 through 8 show much of that portion of the impoundment between the bench and the crest, demonstrating that the liner exists between the bench and the crest only discontinuously along the northern and western embankments. Everywhere around the perimeter of the impoundment, the liner above the bench has been significantly torn and is in most areas non-existent. Photograph 5 shows the portion of the west embankment between the bench and the crest over which an intact section of liner remains, with the key trench at the crest visible in the foreground of the photograph. Photograph 6 shows the remaining two portions of intact liner between the bench and the crest. Photographs 7 and 8 show water in the evaporation lagoons from two different angles.

The key trench at the crest is no longer functioning as designed due to liner loss between the bench and the crest. The crest is graded as needed and is relatively smooth for safe vehicle traffic and is unimpacted by erosion from the outside edges of the embankments.

SUMMARY

Above the bench, the liner is no longer functional, and the key trench at the crest thus no longer provides a function. The liner along the bench and the seam at the bench is functional only along the south embankment and a portion of the west embankment. The liner is fully maintained and repaired as necessary within five vertical feet of the tailings or tailings fluid around the entire perimeter of the impoundment. The liner remains, by observation, plyable. There is no evidence of exposed scrim by either physical or chemical means. Semi-annual laboratory testing of liner properties indicates that the liner does not meet standards for tear resistance, hardness, and low temperature bend; and does meet standards for thickness, breaking strength, and hydrostatic resistance. We recommend that the sandbag weights program continue to be maintained to limit the liner's opportunity to billow in high winds.

Ongoing maintenance of the impoundment allows Kennecott Uranium Company to meet its operational objectives. Specific maintenance completed or ongoing during 2016-2017 includes 1) repair of the liner to keep it functional within five feet of the tailings; 2) ongoing maintenance of the water management system including activities such as pump repair and/or replacement; 3) maintenance of the sandbag weights along the west and south embankments to limit liner buffeting under windy conditions; and 4) maintenance and

repair of the outer surfaces of the embankments against erosion effects.

Kennecott Uranium Company continues to effectively manage the tailings impoundment through as-needed maintenance of the liner within five vertical feet of the tailings or tailings fluid and keeping the tailings covered with filled evaporation lagoons. Potential for fluid to escape through the remaining Hypalon® liner is limited, potential for windblown tailings is decreased, potential for radon emissions is decreased, the surface of the tailings has been lowered to a level everywhere below the surrounding native ground surface, tailings consolidation throughout the impoundment is promoted, and evaporation over a large surface area within the impoundment is enhanced.

If you have any questions, please do not hesitate to contact me.

Sincerely,
Telesto Solutions, Inc.



Kent Bruxvoort, P.E.
Senior Engineer

KJB

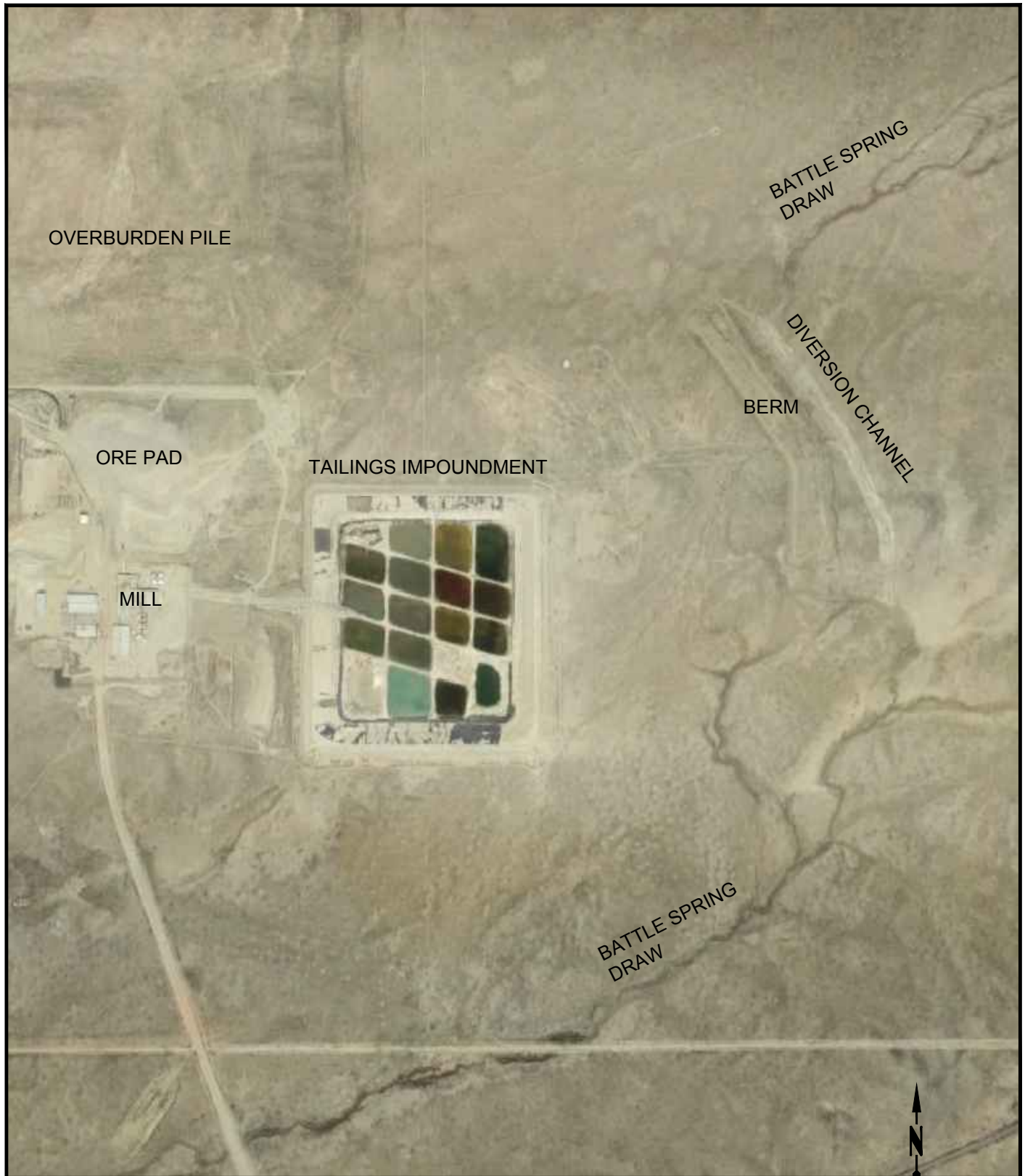
Table 1 Summary of Tailings Impoundment Fluid Levels

End-of-Year Measurement Date	Fluid Elevation, Pool Surface
November 19, 1987	6636.3
October 31, 1988	6632.0
November 20, 1989	6629.0
November 11, 1990	6626.6
October 7, 1991	6624.6
November 5, 1992	6622.2
October 11, 1993	6621.1
October 10, 1994	6618.9
October 3, 1995	6619.2
October 3, 1996	6617.9
October 16, 1997	6616.8
September 14, 1998	6616.6
November 17, 1999	6614.6
November 9, 2000	6610.8
November 19, 2001	6611.4
November 5, 2002	6607.1
October 6, 2003	6606.8
October 14, 2004	6608.7
September 5, 2005	6605.5
September 19, 2006	6608.7
October 16, 2007	6609.3
October 31, 2008	6620.2
October 27, 2009	6620.4
October 21, 2010	6619.9
October 3, 2011	6617.4
November 12, 2012	6609.1
November 4, 2013	6608.0
November 17, 2014	6609.1
November 9, 2015	6610.2
November 1, 2016	6610.8
June 1, 2017	6612.7

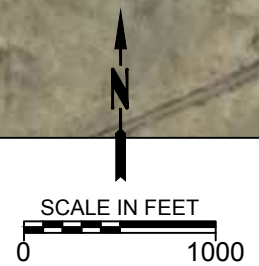
Note: Elevations are normalized to the facility datum originally established by Minerals Exploration Company for control point TLT-203.

Table 2 Summary of Corrective Action Program Pumpback Volumes

Dates	Pumpback Volume, gallons
April 1, 1986 to April 1, 1987	4,538,561
April 1, 1987 to April 1, 1988	6,527,284
April 1, 1988 to April 1, 1989	10,519,688
April 1, 1989 to April 1, 1990	11,228,062
April 1, 1990 to January 1, 1991	10,060,823
January 1, 1991 to December 1, 1991	15,996,191
December 1, 1991 to December 31, 1992	21,302,920
December 31, 1992 to December 31, 1993	14,067,020
December 31, 1993 to December 31, 1994	18,503,040
December 31, 1994 to December 31, 1995	18,149,040
December 31, 1995 to December 31, 1996	18,562,070
December 31, 1996 to December 31, 1997	16,164,230
December 31, 1997 to December 31, 1998	15,934,590
December 31, 1998 to December 31, 1999	15,575,270
December 31, 1999 to December 31, 2000	17,990,050
December 31, 2000 to December 31, 2001	18,112,990
December 31, 2001 to December 31, 2002	16,157,330
December 31, 2002 to December 31, 2003	15,559,290
December 31, 2003 to December 31, 2004	18,182,190
January 1, 2005 to December 31, 2005	20,440,202
January 1, 2006 to December 31, 2006	24,348,650
January 1, 2007 to December 31, 2007	23,596,880
January 1, 2008 to December 31, 2008	24,034,020
January 1, 2009 to December 31, 2009	22,103,107
January 1, 2010 to December 31, 2010	23,865,855
January 1, 2011 to December 31, 2011	24,455,745
January 1, 2012 to December 31, 2012	24,656,696
January 1, 2013 to December 31, 2013	26,207,070
January 1, 2014 to December 31, 2014	26,645,670
January 1, 2015 to December 31, 2015	26,396,000
January 1, 2016 to December 31, 2016	26,811,900
January 1, 2017 to May 9, 2017	9,930,630



REFERENCE INFORMATION:
AERIAL PHOTO PER GOOGLE
EARTH- JUNE 2014

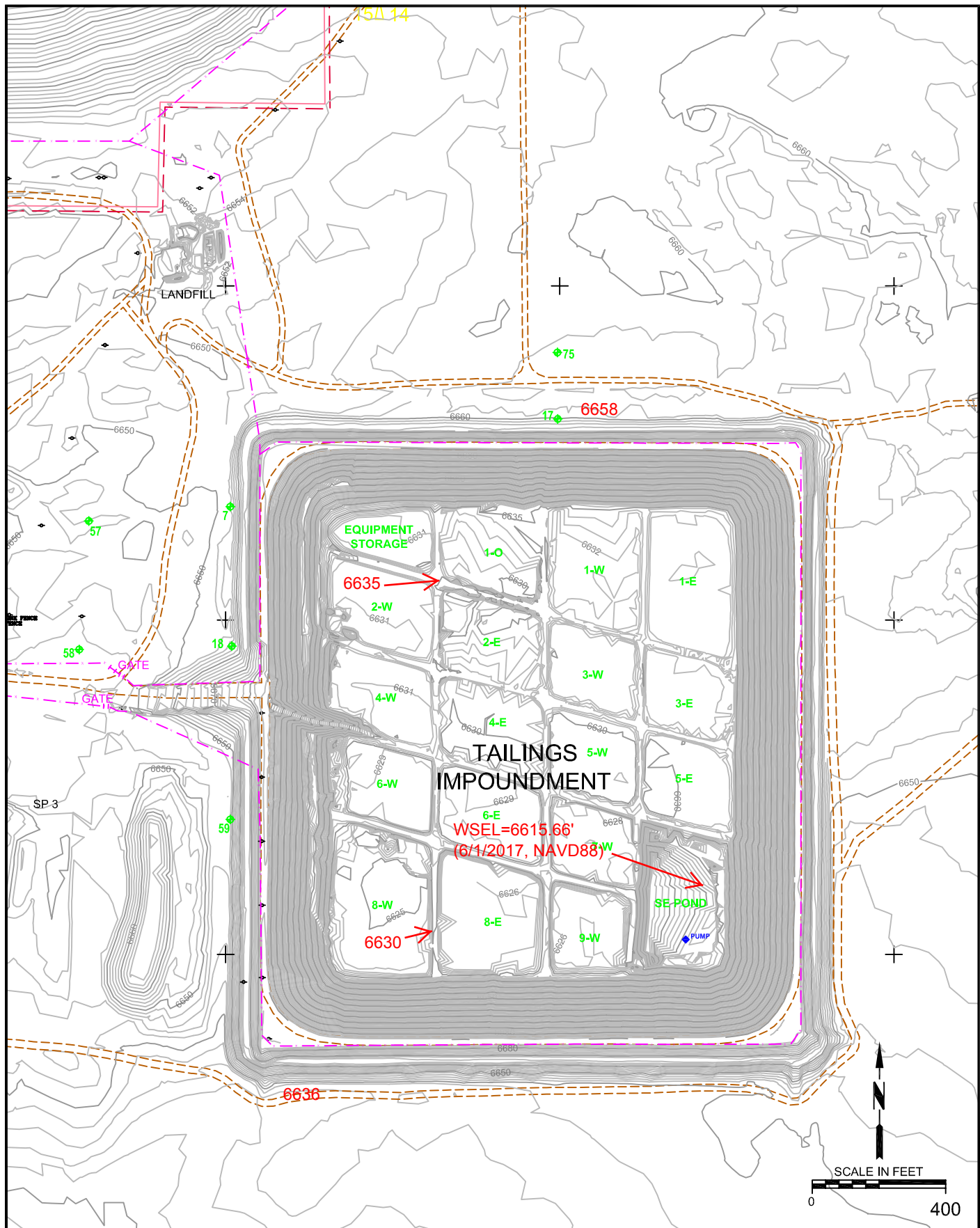


PROJECT: 451101	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

FIGURE 1
AERIAL IMAGE OF FACILITY (6/2014)

PREPARED FOR: SWEETWATER URANIUM FACILITY
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7/8/2010 P:\Sweetwater\Uranium\Calculations\AutoCad\TOPO2009-JUL_Telesto exhibits.dwg



PROJECT: 451101
TASK: -
PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED

FIGURE 2
JULY 2009 TAILINGS AREA SURVEY

PREPARED FOR:
**SWEETWATER
URANIUM
FACILITY**



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**PHOTO 1, LINER REPAIR
PHOTO 2, LINER WEIGHTS**

PREPARED FOR: RioTinto



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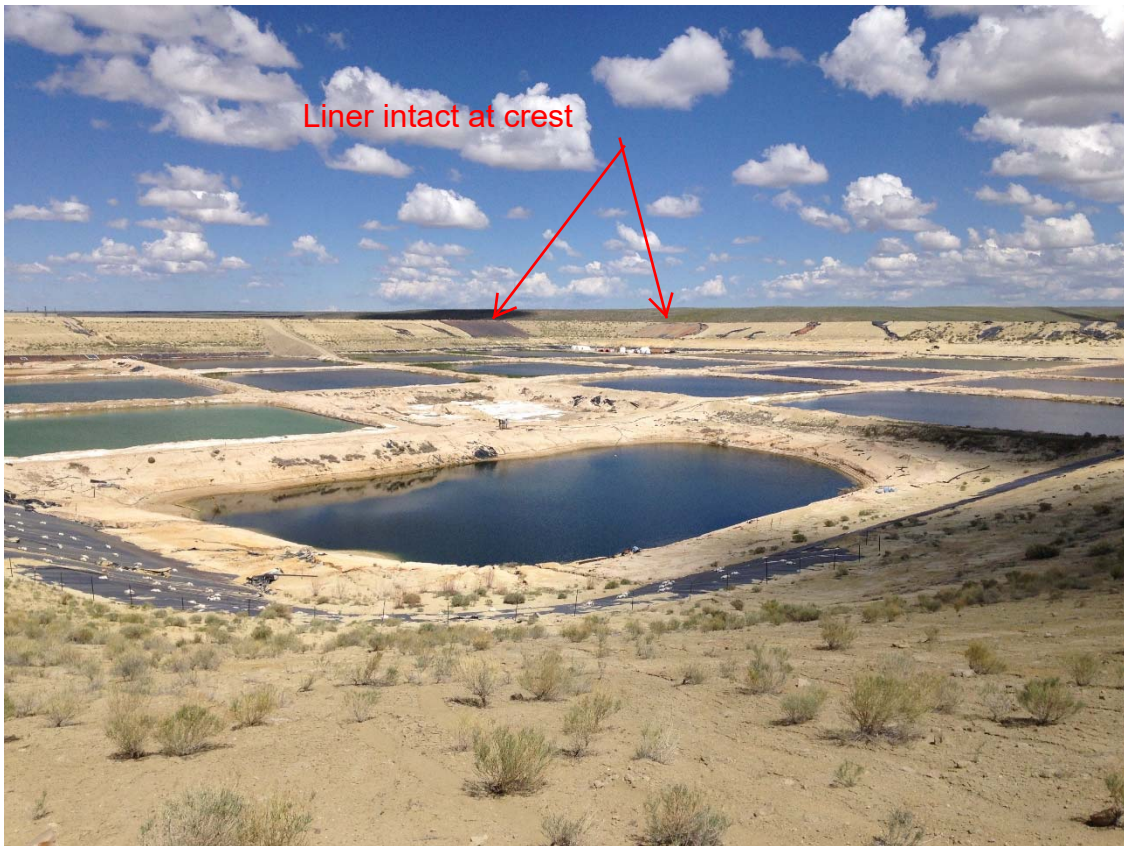
PROJECT: -	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

PHOTO 3, SOUTH EMBANKMENT, LOOKING WEST
PHOTO 4, LINER ALONG EAST EMBANKMENT

PREPARED FOR: RioTinto



Key trench at crest



Liner intact at crest

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PROJECT: -	TASK: -
PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

PHOTO 5, SECTION OF INTACT LINER
PHOTO 6, FREE WATER POOL

PREPARED FOR: RioTinto



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PREPARED BY: TELESTO SOLUTIONS INCORPORATED	

PHOTO 7, LOOKING TOWARD THE SOUTHWEST
PHOTO 8, LOOKING TOWARD THE SOUTHEAST

PREPARED FOR: RioTinto

Appendix 5

Characterization Plan

Kennecott Uranium Company
Sweetwater Uranium Project
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PO Box 1500
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September 1, 2016

Via Electronic Mail

Ms. Andrea Kock, Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852-2738

Dear Ms. Kock:

**Subject: Sweetwater Uranium Project – Docket Number: 40-8584
Source Material License SUA-1350 - Responses to Public Conference Call of August 18,
2016 Specific to License Condition 11.3**

The U.S. Nuclear Regulatory Commission (NRC) is conducting a review of the Kennecott Uranium Company (Kennecott) Sweetwater Uranium Project request for a ten-year renewal of Source Material License SUA-1350 that was submitted on July 24, 2014. The NRC provided Requests for Additional Information (RAIs) in letters dated July 13, 2015 and February 12, 2016. On August 18, 2016, a public conference call involving Kennecott and the agency was held to discuss specific license conditions that will be modified as part of the license renewal process. One condition that is planned to be modified is License Condition 11.3 that defines the site's Corrective Action Program (CAP). This letter provides a commitment and a schedule for providing a plan to better characterize the existing plume along its western margin (License Condition 11.3) and modify the site's CAP in accordance with characterization data to be acquired in the future.

With this letter, Kennecott commits to a characterization plan. Facility operations by the previous site licensee (Minerals Exploration Company (MEC)) resulted in fluids from mill operations entering the Battle Spring Aquifer via the unlined catchment basin and via leaks in the tailing impoundment's single Hypalon® liner. These process fluid-influenced waters have resulted in a plume, that is, a small area of the Battle Spring aquifer with discrete water quality parameters measurably above background levels but which in cases do not exceed drinking water standards or are not listed as National Primary Drinking Water Standards. Kennecott operates a CAP to control the extent of the plume. The CAP includes pumpback wells to recapture mill-influenced fluids, and monitoring wells which allow evaluation of the efficacy of the CAP. Questions exist regarding the extents of the western margin of this plume. The following steps will be implemented by Kennecott to address issues regarding the plume:

1. Prepare a plan to better characterize the western margins of the plume. The plan will address the phasing, number, locations, depth(s), and completion interval(s) of monitoring wells, as well as sampling quality assurance/quality control, and sampling/testing parameters. The plan will reference the recommendations made in the responses to the above-mentioned RAIs prepared by Telesto Solutions, Inc. on behalf of Kennecott Uranium Company.
2. Submit the plan to the agency for review and comment
3. Implement the plan as proposed and modified following agency comment. Implementation will consist of monitoring well completion, sampling, and data analysis
4. Submit to the agency, the data and analysis/characterization for review and comment

5. Continue characterization plan phasing as applicable
6. Modify the CAP as necessary based on the results of the analysis of the characterization data and the agency's comments. In submitting the modified CAP, Kennecott will request that the ability to add or remove pumpback wells from service with the goal of improving the performance of the CAP be retained in License Condition 11.3.

The timeline to implement these six steps is presented in Table 1.

If you have any questions please do not hesitate to contact me.

Sincerely yours,



Oscar Paulson
Facility Supervisor

Cc: James Webb – Project Manager – (2)
Director – USNRC DNMS – Region IV (w/o enc.)
Rich Atkinson

Table 1 Anticipated Schedule for Characterizing the Plume's Western Margin

Step	Anticipated Date	Comment
1. Prepare characterization plan	September 16, 2016	Submittal date to NRC
2. NRC review/comment	Begin September 16, 2016	Anticipate 30 days for review and comment
3. Implement characterization plan (drilling, sampling, and data analysis)	Completed within seven (7) months following NRC's review of the characterization plan.	Arrange for drilling in advance of receipt of NRC comments; collect and analyze 3 months of data. Timeframe initiation dependent on NRC review schedule.
4. Submit characterization data and analysis	Completed within seven (7) months following NRC's review of the characterization plan.	Submit at completion of step 3. Timeframe dependent on NRC review schedule for step 2.
5. Continue characterization plan phasing, depending upon NRC comments and further review of data as applicable	Completed within four (4) months following NRC's review of characterization data.	
6. Modify CAP as necessary	Completed within four (4) months following completion of NRC's review of characterization data.	

ATTACHMENT 1

CHARACTERIZATION PLAN

EXTENT OF GROUNDWATER CONTAMINATION

OVERVIEW

This attachment presents a plan for Kennecott Uranium Company (Kennecott) to characterize the extent of groundwater contamination at the Sweetwater Uranium Project. The contaminated groundwater is in the Battle Spring Aquifer and is the result of releases of mill process fluids, from the catchment basin and/or the existing tailings impoundment, which occurred during operations (1981 to 1983) prior to Kennecott's acquisition of the facility,

In a letter dated August 25, 2016, the NRC stated,

“NRC staff is therefore requiring the licensee to fully characterize the current extent of groundwater contamination and provide a revised corrective action plan (CAP) to bring the groundwater into compliance with the groundwater standards.” ... “The revised CAP shall propose acceptable methods to achieve and demonstrate compliance for those parameters in exceedance of the corresponding groundwater protection standard and also include a time limit to reach compliance.”

BACKGROUND

Facility operations by the previous site licensee (Minerals Exploration Company, a wholly owned subsidiary of Union Oil Company of California (UNOCAL)) resulted in fluids from mill operations entering the Battle Spring Aquifer through the unlined bottom of the catchment basin and from leaks in the tailings impoundment's single Hypalon® liner. These process fluid-influenced waters have resulted in a relatively small portion of the aquifer with water quality parameters measurably above background levels.

Kennecott operates the CAP to contain, control and monitor the extent of the groundwater contaminants as well as to remove contaminants from the aquifer. Every year Kennecott monitors and reports on the mass of salts removed from the aquifer above expected background levels. This analysis shows that considerable mass has been removed from the aquifer. The CAP includes pumpback wells to recapture mill-influenced fluids and maintain a cone of depression containing the plume, and monitoring wells which allow evaluation of the groundwater (including water levels and quality) and efficacy of the CAP.

The areal extent of the groundwater contamination has been influenced by local and regional groundwater flow paths, which have changed over time. Prior to site operations, the long-term regional groundwater gradient was toward the southwest. During mill operations the open pit mine was dewatered via a ring of wells creating a large cone of depression and a localized groundwater gradient. This artificial gradient influenced the groundwater flow direction to the northwest in the mill vicinity.

When the mill ceased operation and went into standby on April 15, 1983, pit dewatering ceased on April 25, 1983, and the localized groundwater gradient to the northwest began to dissipate. The open pit slowly filled, reaching steady state as an evaporative sink by 1998. The water elevation in the pit annually fluctuates between approximately 6539 to 6540 feet above mean sea level (NGVD 29). The flooded open pit remains an evaporative sink with the elevation of the water being approximately 1.5 to 2.0 feet below the elevation of the water in the surrounding Battle Spring Aquifer.

Additionally, operation of the pumpback wells under the CAP, which has been ongoing since 1986, has formed a capture cone that creates short-term localized effects on groundwater flow paths. This capture cone creates a localized flow path in the vicinity of the tailings impoundment and mill toward the pumpback wells shown in Figure 1.

Mill process fluids were first introduced into the Battle Spring Aquifer in 1981 from the catchment basin and in 1983 to 1984 from the tailings impoundment. Flow paths in the mill and tailings impoundment vicinity have changed over time, from the natural southwest flow direction, to a northwesterly influence during pit dewatering and for some time thereafter, and then toward pumpback wells over the last 30 years. Monitoring wells are numerous near the tailings impoundment and immediately east of the mill building around the now remediated catchment basin. However, monitoring wells west of the mill are fewer in number. Plots of constituent concentrations in the groundwater (combined radium-226/228, natural uranium, and sulfate, for example) based on existing wells including TMWs-108 and 109 indicate that elevated levels of these constituents persist to the west of the mill building.

The Sweetwater Pit is located in a natural uranium deposit, and thus naturally high levels of natural uranium, radium-226, selenium and other associated constituents to the west of the mill are to be expected. Pit closure and reclamation (including bioremediation of the 1.2 billion gallons of water in the pit lake) has resulted in a lake with a stable water surface elevation resulting in a local groundwater sink. As a result, groundwater flow paths near the pit point toward the pit lake. It is essential that any characterization plan consider the various local and regional influences on groundwater flow and quality in the mill and tailings impoundment vicinity. This is especially true west of the mill because of the presence of naturally high background concentrations of radionuclides.

Telesto completed a groundwater characterization report in 2009 which interpreted the groundwater hydrology and geochemistry in the vicinity of the groundwater plume. Telesto has also assisted Kennecott in the preparation of annual groundwater contour and constituent concentration mapping, and has prepared responses to two NRC Requests for Additional Information regarding the groundwater contamination and plume characteristics. These documents will be referenced in the characterization plan.

CHARACTERIZATION PLAN

This document provides an approach to locate and complete monitoring wells and/or borings west of the mill facility, and north and east of the tailings impoundment. Groundwater and formation samples will be used to fully characterize the extent of groundwater contamination, and help determine influences of naturally occurring mineralization.

Plan for Installation of Monitoring Wells

Task 1 Data Review

A preliminary review of existing groundwater quality data has been conducted to identify where the margins of existing groundwater contamination are not well defined. Three general areas have been identified (Figure 1):

- north of well TMW-89
- east of well TMW-36 between TMW-36 and TMW-5
- northwest, west and south of TMW 73

A more detailed review of groundwater quality data will be conducted to better locate drilling sites before drilling begins. This more detailed review will include additional groundwater sampling data gathered from project files or from recent sampling efforts by Kennecott including:

- sample data from dewatering wells operated between September 1979 and April 25, 1983
- other well samples from recently located data not previously included in the site groundwater database
- additional groundwater elevation data including data collected from the dewatering wells and the pit lake in fall 2015

Prior to conducting drilling operations, existing core will be examined for signs of natural uranium presence and movement in the Battle Spring Formation. This core was collected in 1996 by Shepherd Miller, Inc. as part of a site geotechnical evaluation for construction of a new tailings impoundment, and remains stored on site. This core can be analyzed for parameters that would not be affected by long exposure to air.

Task 2 Drilling and Sampling

Hollow stem auger drilling will be the primary drilling method utilized to complete boreholes to determine the extent of groundwater contamination. If for any reason hollow stem auger drilling cannot be used, drilling methods that allow for satisfactory sample collection and borehole completion will be employed. Boreholes may vary in diameter and will be either completed as groundwater monitoring wells or used as test borings and abandoned in accordance with Wyoming State Engineer's Office Regulations and Instructions Part III Water Well Minimum Constructions Standards revised June 2011.

The water table is expected to be encountered at approximately 100 feet below ground surface in the proximity of the study area. The surface elevation and proximity to the CAP cone of depression will influence the depth to the water table. For the sake of consistency, boreholes that are to be completed as monitoring wells will be constructed in the same manner as recently

completed monitoring wells. Fifty feet of well screen will be installed across the water table with approximately five feet of screen above and 45 feet below the water table. Other completion configurations may be used as warranted by site specific conditions.

A split-spoon/SPT sampler will be used to collect at least two formation samples above the water table and two formation samples below the water table for each borehole. A fifth formation sample may be collected at the water table. The samples will be inspected and the lithology will be logged and described on site. Formation samples will be sent to a laboratory and tested for natural uranium, thorium-230, radium-226, metals, total organic carbon (TOC) and general chemical parameters resulting from whole rock and the Synthetic Precipitation Leaching Procedure (SPLP) tests. Field measurements will be performed on collected formation samples and will include paste pH and redox (oxidation) state using a standard platinum probe.

These data will be used to characterize the natural leaching/mobilization process of uranium and other constituents of concern resulting from percolating rainfall or snowmelt, fluctuating water table, and groundwater movement. These data will also be used to estimate the influence of localized and naturally occurring mineralization on groundwater quality, which likely result in elevated naturally occurring uranium concentrations in groundwater at the very top of the Battle Spring Aquifer.

Groundwater samples will be collected during the drilling process. The samples will be collected at approximately ten foot intervals below the water table from the inside of the hollow stem auger. Samples will be collected using a bailer or a small downhole submersible electric pump. Field analysis will be conducted for pH, redox potential, conductivity, total dissolved solids (TDS), total iron, ferrous iron (Fe^{+2}), and sulfate. Larger quantities of selected groundwater samples will be collected, filtered, preserved and sent chilled to an analytical laboratory for additional analysis. Collection and handling of these samples will be performed in accordance with site Standard Operating Procedures (SOPs) EP-13 and EP-13B.

The purpose of this approach of real-time assessment of field data is to fine-tune the selection of well placement to generate the best data at reasonable cost. The formation and groundwater samples collected and field-analyzed during drilling will be used to determine if the well location and/or proposed 50 foot screened interval is appropriate for each well completion and if adjustments are required. The formation and groundwater samples will also be used in an initial estimation of the extent of the contaminant plumes. If the data obtained are useful, the boring will be completed as a monitoring well; however, if the data indicate the boring to be redundant, the borehole will be abandoned in accordance with the Wyoming State Engineer's Office Regulations and Instructions Part III Water Well Minimum Construction Standards revised June 2011. This field data collection and initial estimation of contamination extent will be used to determine where to locate additional drilling.

A minimum of six wells are planned; more may be drilled and completed as a result of the field data assessment. Two wells will initially be drilled to better define the extent of contamination north and east of the tailings impoundment associated with wells TMW 89 and TMW 36 respectively, to be supplemented with additional wells as necessary. TMW-89 has exceeded the Groundwater Protection Standard (GPS) for uranium and is unbounded to the North. TMW-36 exceeds the Groundwater Protection Standard (GPS) for uranium and while bounded to the East by TMW-5, the distance between the wells is over 1,000 feet creating uncertainty in that area. Two wells will initially be drilled west and south of TMW 73, to be supplemented with additional wells as necessary. Figure 1 depicts those areas targeted for initial drilling. An additional one to three borings may be drilled and abandoned while identifying the optimal locations to install monitoring wells.

Permits from the Office of the Wyoming State Engineer will not be required because these will be monitor wells that are four inches in diameter or under (see Attachment 1-A). Those completed within the area of Permit to Mine #481 will be included within that permit and their reclamation covered under the associated surety. Other wells will be completed within the NRC bonded area. Reclamation of these sites will be covered by the surety for Source Material License SUA-1350. It is expected that at least two of these wells will be on unpatented mill sites held by Kennecott Uranium Company but outside of lands held in fee. The Bureau of Land Management (BLM) has recently prepared a letter dated April 11, 2016 pursuant to 43 CFR 3809.400 concluding that Kennecott's recent submission of the Supplemental Environmental Report for the facility is accepted as complete. BLM notes that an archaeological survey is required prior to disturbing any un-surveyed areas.

The wells will be completed according to the Wyoming State Engineer's Office Regulations and Instructions, Part III, Water Well Minimum Construction Standards, revised June 2011. A well completion diagram is included in Attachment 1-B. Four-inch schedule 40 PVC pipe and casing will be used to construct the wells. No glued joints will be used as a measure to prevent hydrocarbon contamination. The annulus around the slotted pipe will be gravel- or sand-packed. The filter pack will continue at least six feet above the top of the well screen. At least five feet of bentonite chips will be placed above the gravel or sand pack. The annulus will be filled with neat cement according to the current Wyoming Department of Environmental Quality standards: Guideline 8, Hydrology, Coal and Non-Coal and Chapter 26, Well Construction Standards.

Task 3 Monitoring Well Data Collection

The newly installed monitoring wells will be developed by bailing and/or jetting and airlifting. The wells will be allowed to sit for at least one week to allow and sediments in the wells to settle prior to sampling.

Groundwater samples from the newly installed wells will be collected and analyzed monthly for a period of three months. At least three casing volumes will be pumped from the well prior to sample collection and the samples will be filtered, preserved and refrigerated on site, and sent chilled to an analytical laboratory for analysis. Collection and handling of these samples will be performed in accordance with Kennecott's Standard Operating Procedures (SOPs) EP-13 and EP-13B.

Task 4 Data Analysis

The data returned from the field and laboratory tests will be reviewed and evaluated. These data will be added to the site conceptual model, which will then be updated to fully characterize the groundwater flow field and extents of ground water contamination originating from mill operations. The conceptual model will include an updated description on the influence of naturally occurring mineralization (uranium in particular) on local groundwater quality.

The groundwater surface elevations of new wells will be evaluated in comparison to existing nearby wells and trends in the potentiometric surface. A potentiometric map using new and existing data will be prepared.

The formation chemistry results will be evaluated and assessed for the relative influence from mill fluids or from background geochemical conditions, in particular for natural uranium. The formation chemistry will be compared to the groundwater quality at each well.

Task 5 Reporting

New contaminant extent maps for constituents of concern will be prepared following data analysis, and a data analysis report will be submitted to the NRC for review. The data analysis report will also include analysis of local background groundwater quality. If the data evaluation determines it to be necessary, we will develop a revision to the background groundwater quality parameters developed and submitted in the Addendum to the Revised Environmental Report Background Ground Water Quality and Detection Standards (Shepherd Miller, Inc., January 23, 1996).

Sampling Parameters and QA/QC

The license, CAP, and sampling and analysis protocols established by Kennecott provide an already-proven definition of parameters to be sampled. The existing sampling and analysis QA/QC plan will be followed while monitoring the samples. Kennecott Environmental Procedures EP-13 and EP-13B will be followed during the sampling and analysis portion of this project. EP-13 describes the sampling and sample procedures and EP-13B describes the sampling and sample preparation procedures and water level measurement procedures.

CAP Compliance and Time Limit

Following review by NRC staff, the CAP may be modified based on the conclusions of the data analysis report and NRC comments. Per NRC comment, any CAP modification will be based on an approach and estimated schedule to achieve compliance with groundwater standards.

Attachment 1-A

Policy Memo from the Wyoming State Engineer's Office, Permitting Requirements for Groundwater Monitoring Wells, March 12, 2013




State Engineer's Office

HERSCHLER BUILDING, 4-E CHEYENNE, WYOMING 82002
(307) 777-7354 FAX (307) 777-5451
seoleg@seo.wyo.gov

MATTHEW H. MEAD
GOVERNOR

PATRICK TYRRELL
STATE ENGINEER

POLICY MEMO: PERMITTING REQUIREMENTS FOR GROUNDWATER MONITORING WELLS

TO: State Engineer's Office
FROM: Patrick T. Tyrrell, State Engineer 
DATE: March 12, 2013
SUBJECT: Permitting requirements for groundwater monitoring wells

The State Engineer issued a Policy Memo, dated January 4, 2005, captioned "Policy Memo: Permitting Requirements for Groundwater Monitoring Wells".

Several questions have arisen recently as to whether the policy enunciated in that memo is still applicable to Wyoming's groundwater appropriators.

To the extent it may still be applicable, that policy memo is rescinded effective immediately, and is replaced with the following statement of policy:

Policy:

To streamline the permitting process and effectively utilize existing resources, the State Engineer's Office – Ground Water Division will no longer require monitoring wells to be permitted through the Division. This policy is effective immediately.

Justification:

A water right is a right to use the water of the state, when such use has been acquired by the beneficial application of water under the laws of the state relating thereto, and in conformity with the rules and regulations dependent thereon. W.S. § 41-3-101 states, in part, that beneficial use shall be the basis, the measure and limit of the right to use water at all times. In general, monitoring wells are used to measure water levels and/or collect water samples for analytical purposes. Monitor wells are not used for production of water for beneficial use.

Surface Water
(307) 777-6475

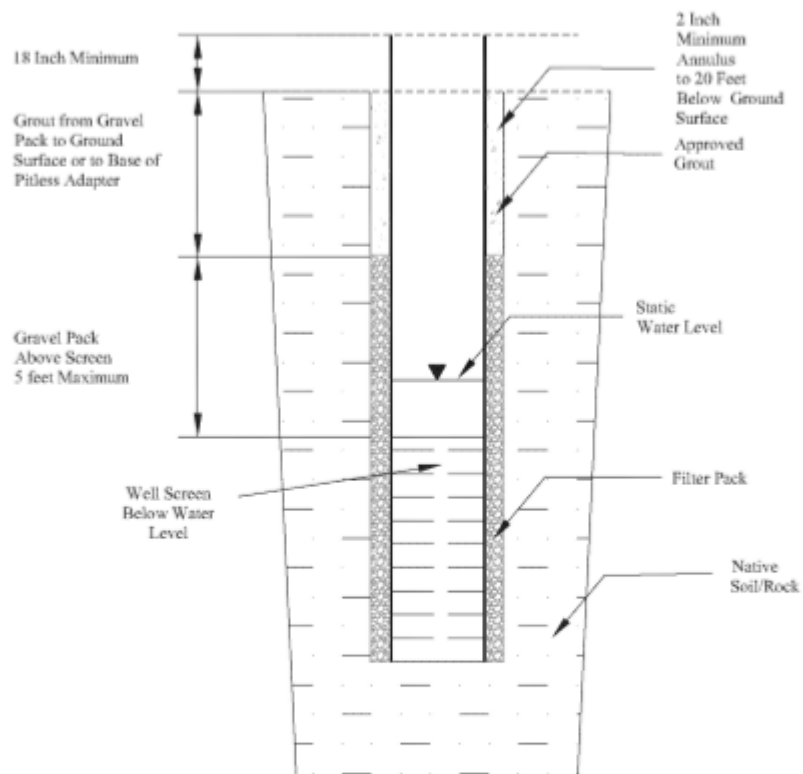
Ground Water
(307) 777-6163

Board of Control
(307) 777-6178

Attachment 1-B

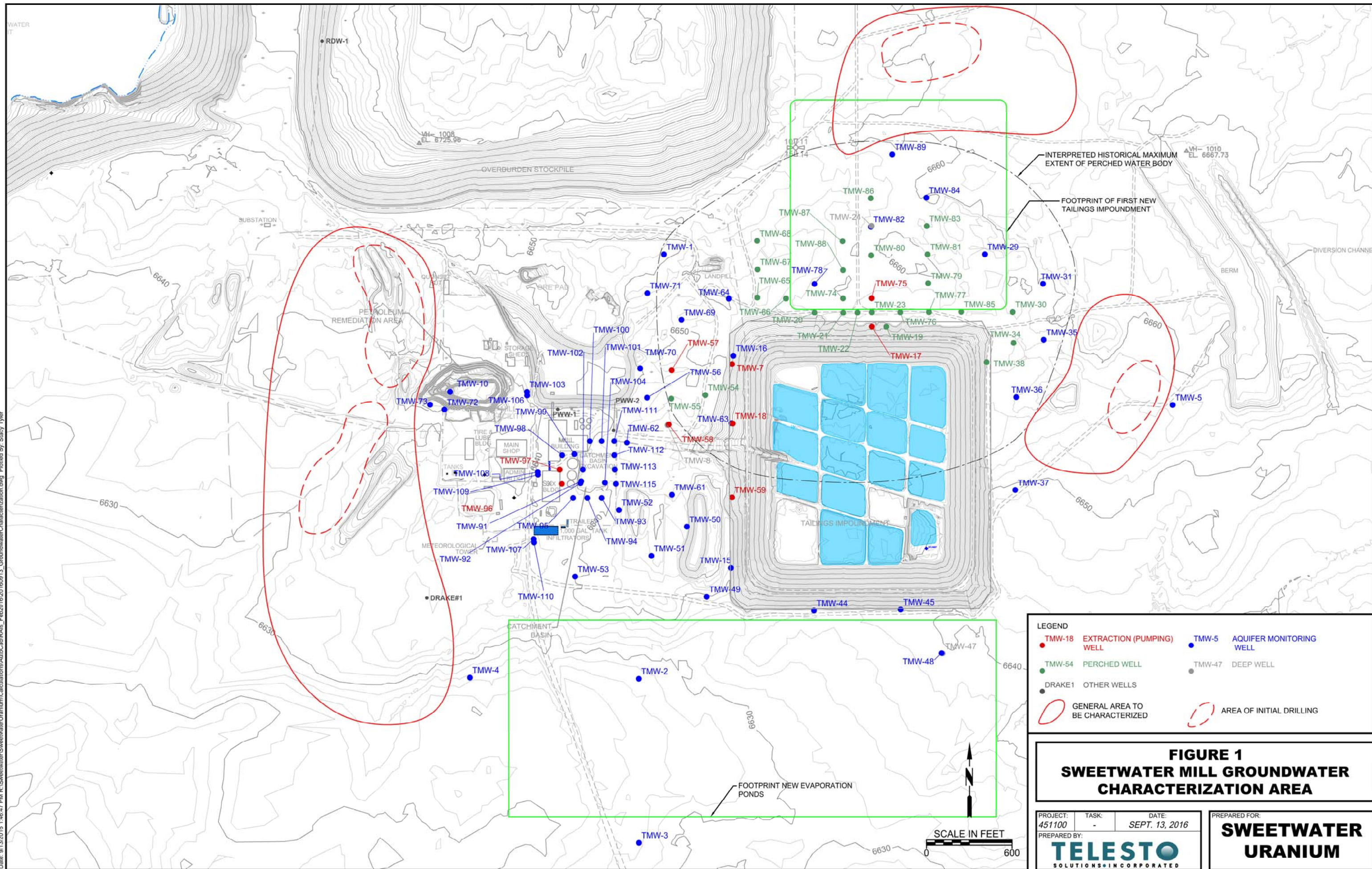
Well Completion Diagram Appendix C-3 from the Wyoming State Engineer's Office,
Regulations and Instructions Part III Water Well Minimum Construction Standards June 2011

Appendix C-3 TYPE III WELLS



Version 11.20.2009

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Schutterle, Carri (RTE)

From: Paulson, Oscar (RTE)
Sent: Saturday, February 10, 2018 4:23 PM
To: Schutterle, Carri (RTE)
Subject: Characterization Plan

Carri:

For inclusion in Appendix 5 – Characterization Plan.

Oscar

Oscar,

See email below J

Jim

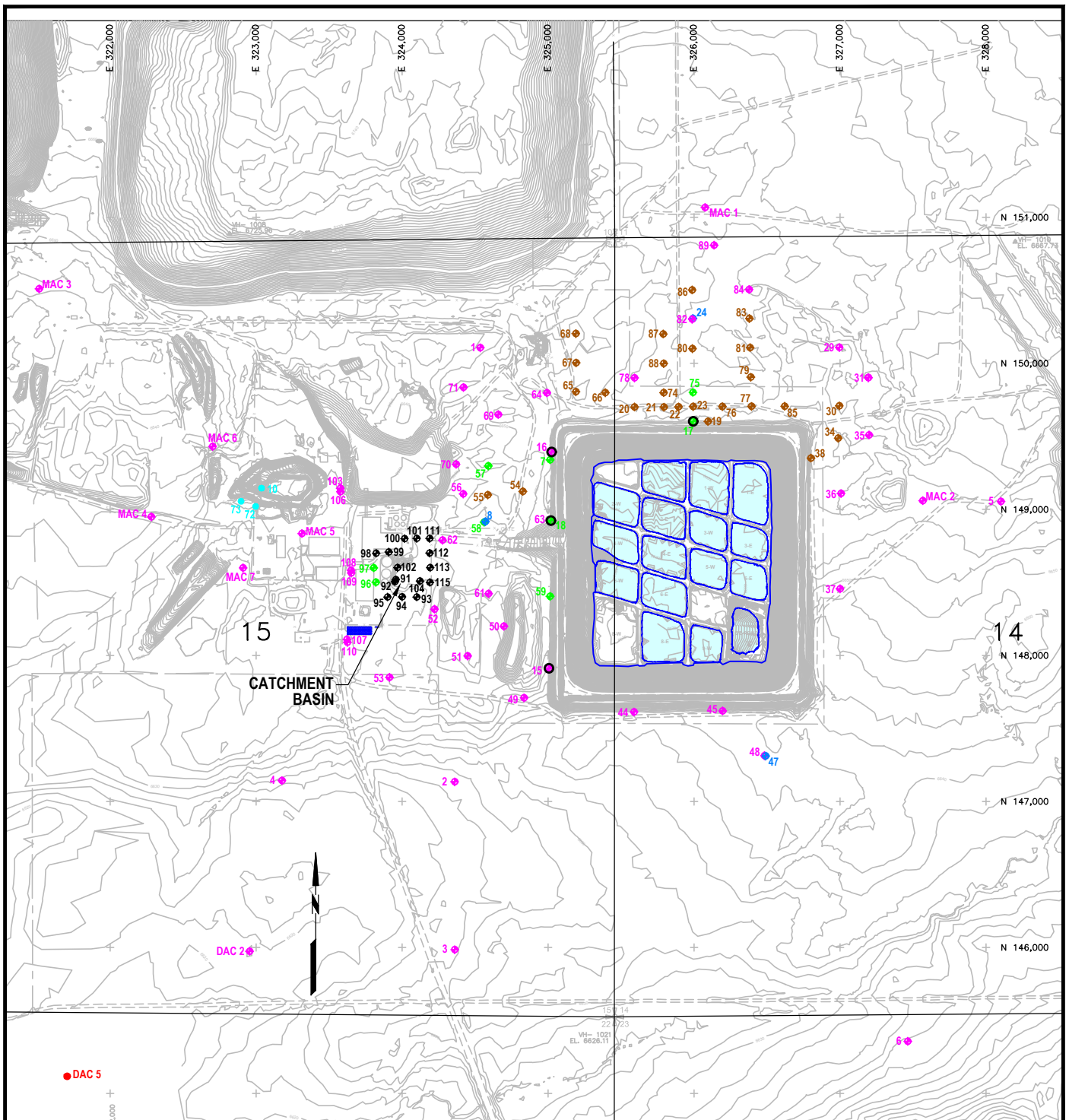
From: Webb, James
Sent: Wednesday, March 22, 2017 10:03 AM
To: 'Oscar Paulson' <oscar.paulson@icloud.com>
Cc: Valdes, Jose <Jose.Valdes@nrc.gov>; Von Till, Bill <Bill.VonTill@nrc.gov>
Subject: Characterization Plan

Oscar,

Per our phone discussion on March 21, 2017 regarding the Characterization Plan and future activities (I.e., drilling wells), the Characterization Plan is still under review. However, NRC staff approves Kennecott decision to proceed forward with the Characterization Plan with the understanding that NRC staff may have additional questions or concerns later on the Characterization Plan and Kennecott will need to address these questions or concerns.

Jim.

Maps



SCALE IN FEET
 0 1000
 TOPOGRAPHY UPDATED JULY 2008
 BY: WORTHINGTON, LENHART, AND
 CARPENTER
 P.O. BOX 1104, 1015 HARSHMAN ST.
 RAWLINS, WY 82301
 CONTOURS FOR TAILINGS AND
 SOME OTHER AREAS ARE IN ONE
 (1) FOOT INTERVALS
 UPDATED JULY 2013

NOTE:
 ALL WELLS HAVE A TMW PREFIX (TYP.)

LEGEND

- ◆ SHALLOW WELLS (PERCHED)
- ◆ DEEP AQUIFER WELLS
- ◆ AQUIFER WELLS
- ◆ PUMPBACK WELLS, AQUIFER
- ◆ COMPLIANCE MONITORING WELLS
- POINT OF COMPLIANCE (POC) WELLS (TAILINGS IMPOUNDMENT)
- ◆ CONTAMINATED SOIL EXCAVATION MONITOR WELLS
- BOREHOLES

RioTinto

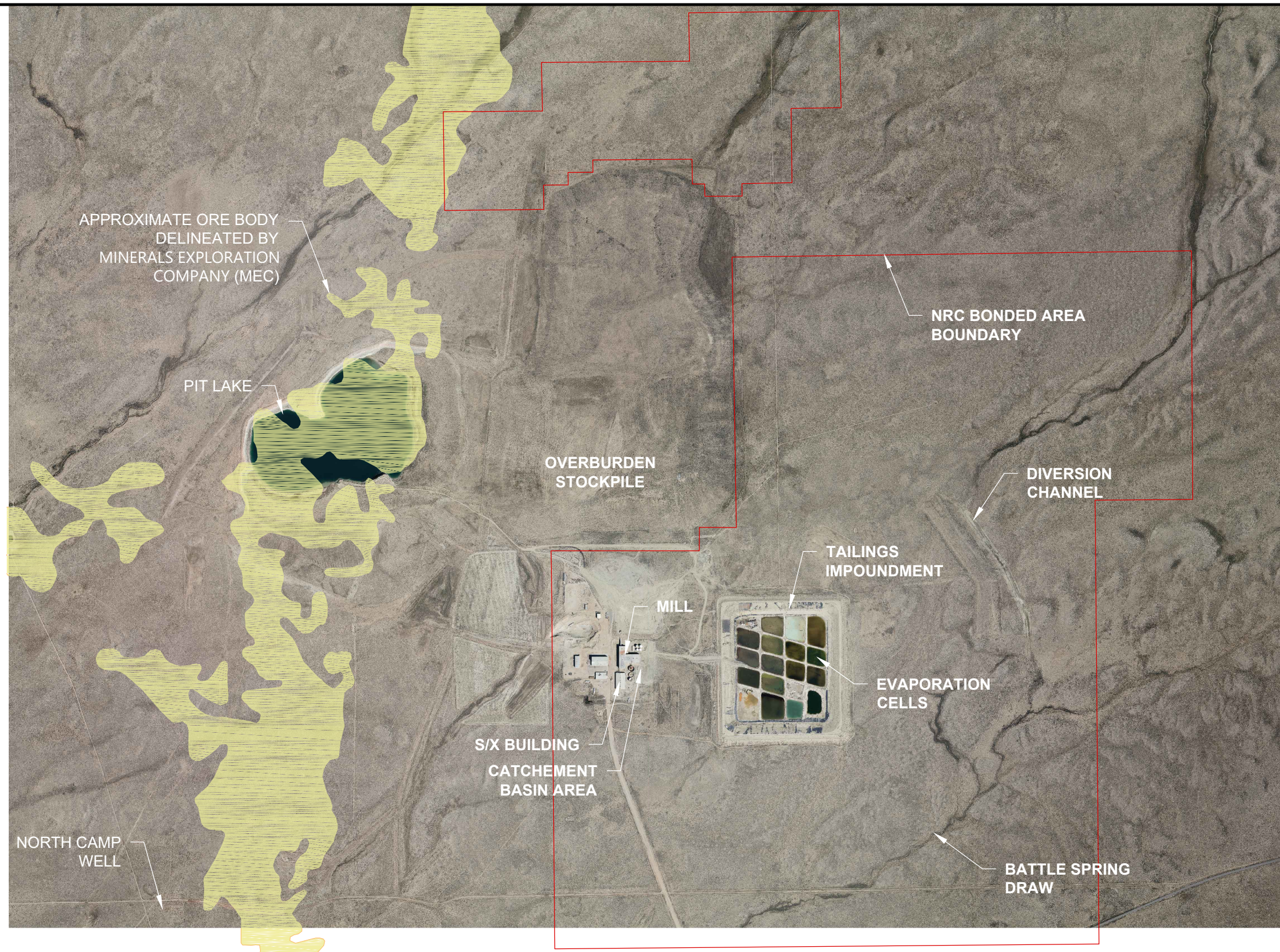
SWEETWATER URANIUM FACILITY
 MONITOR WELL LOCATIONS
 2017 CORRECTIVE ACTION PROGRAM REVIEW

Date: FEBRUARY 2018

Project: 06-442\REP2017

File: 2017-Wells.dwg

Date: 2/8/2018 11:37:18 AM R:\Sweetwater\Sweetwater PFSCalculations\AutoCad\Sweetwater - Ore Body.dwg Plotted By: Stacy Tyler



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COORDINATE SYSTEM
WYSP-UTM83-FT

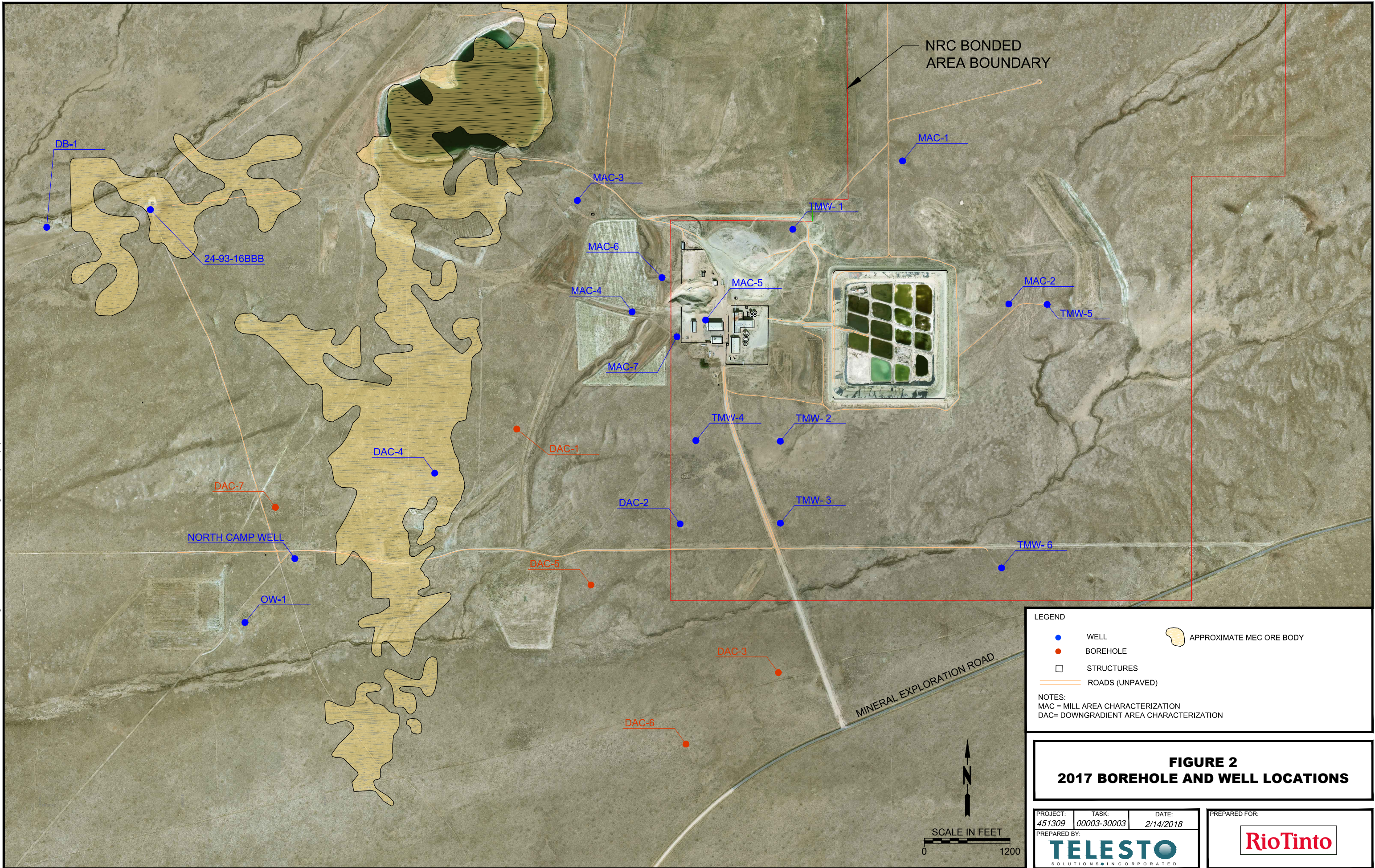


FIGURE 1
SITE FACILITIES MAP

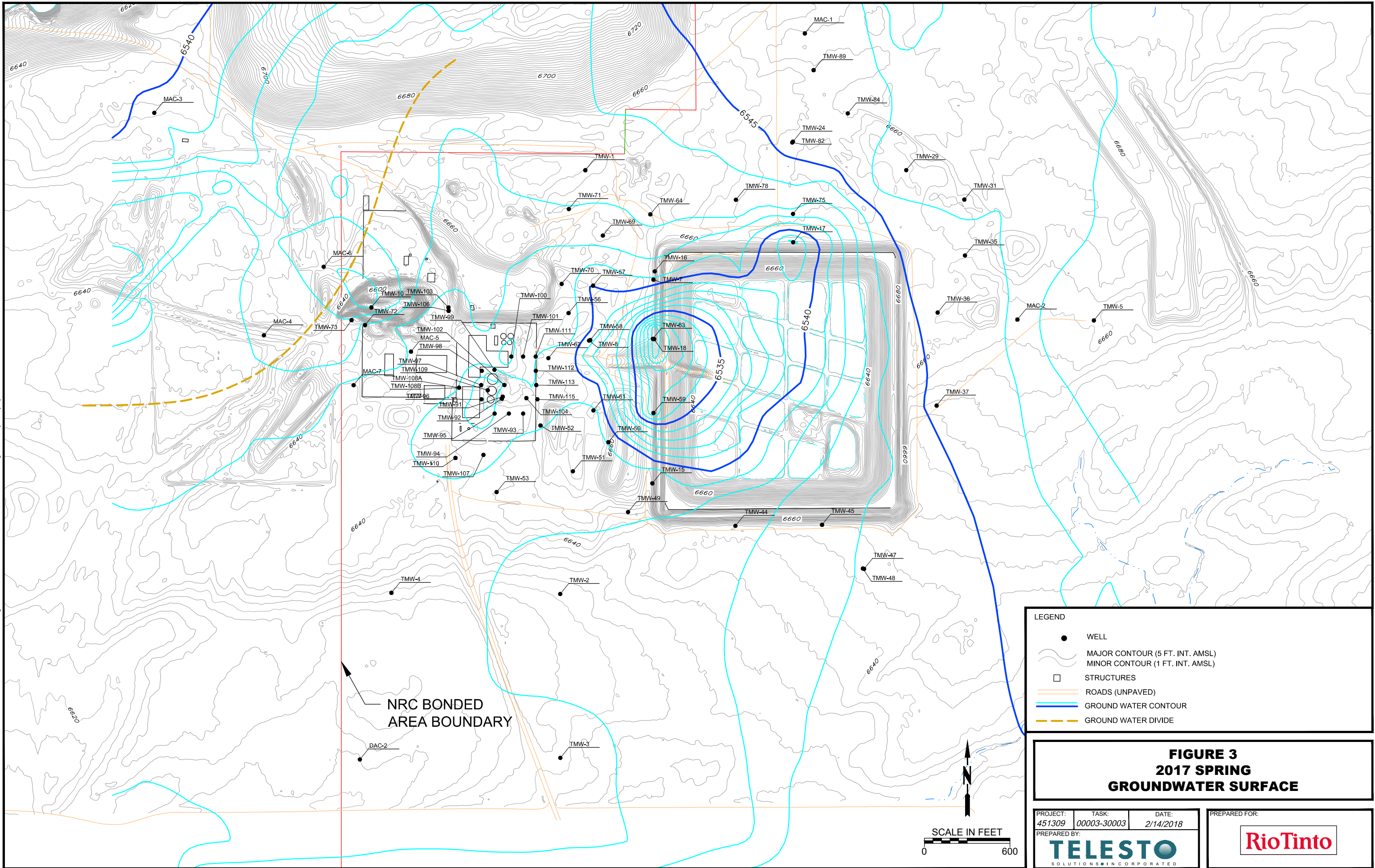
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451309	00003-30003	2/14/2018
PREPARED BY: TELESTO SOLUTIONS INCORPORATED		

PREPARED FOR:
RioTinto

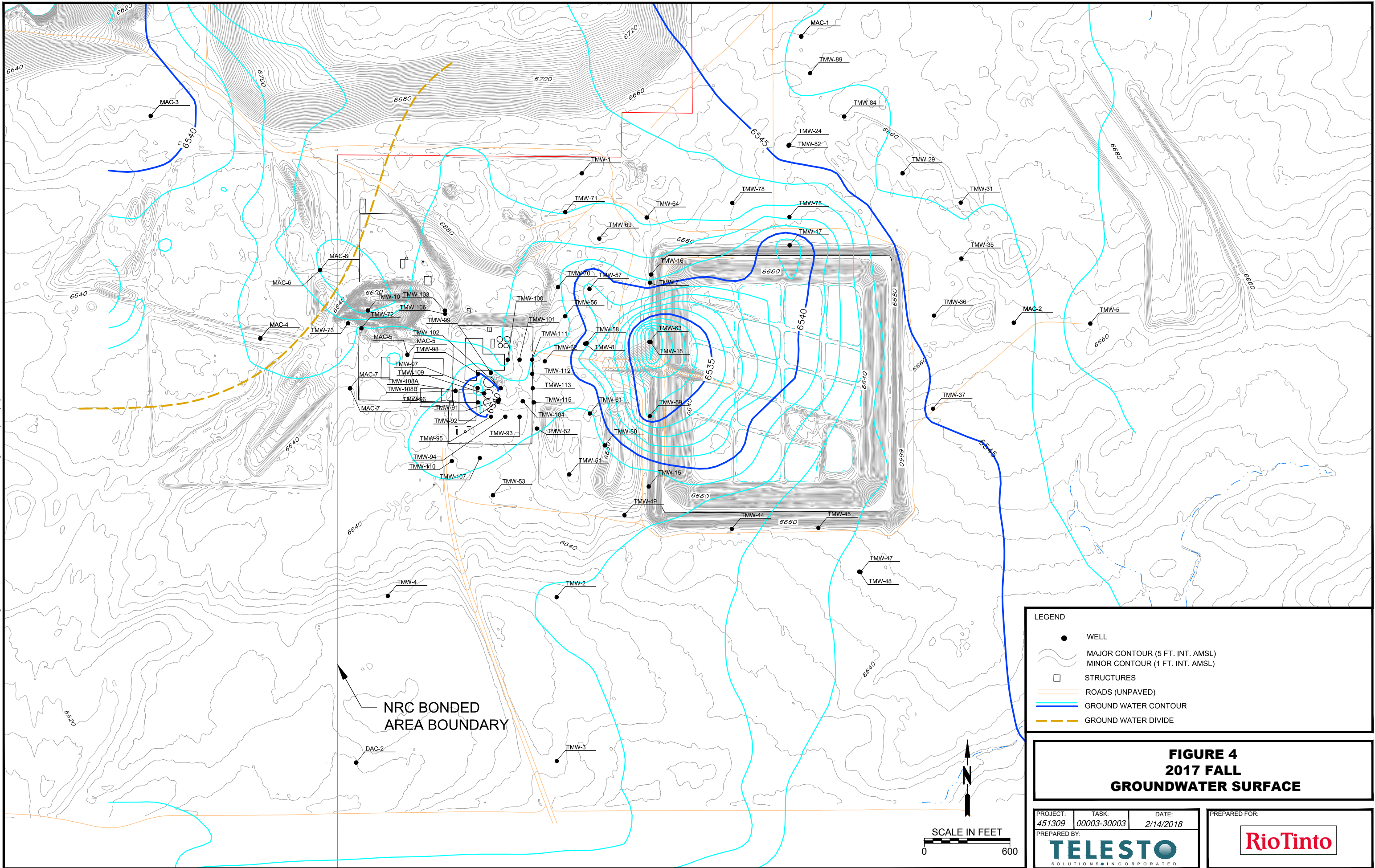
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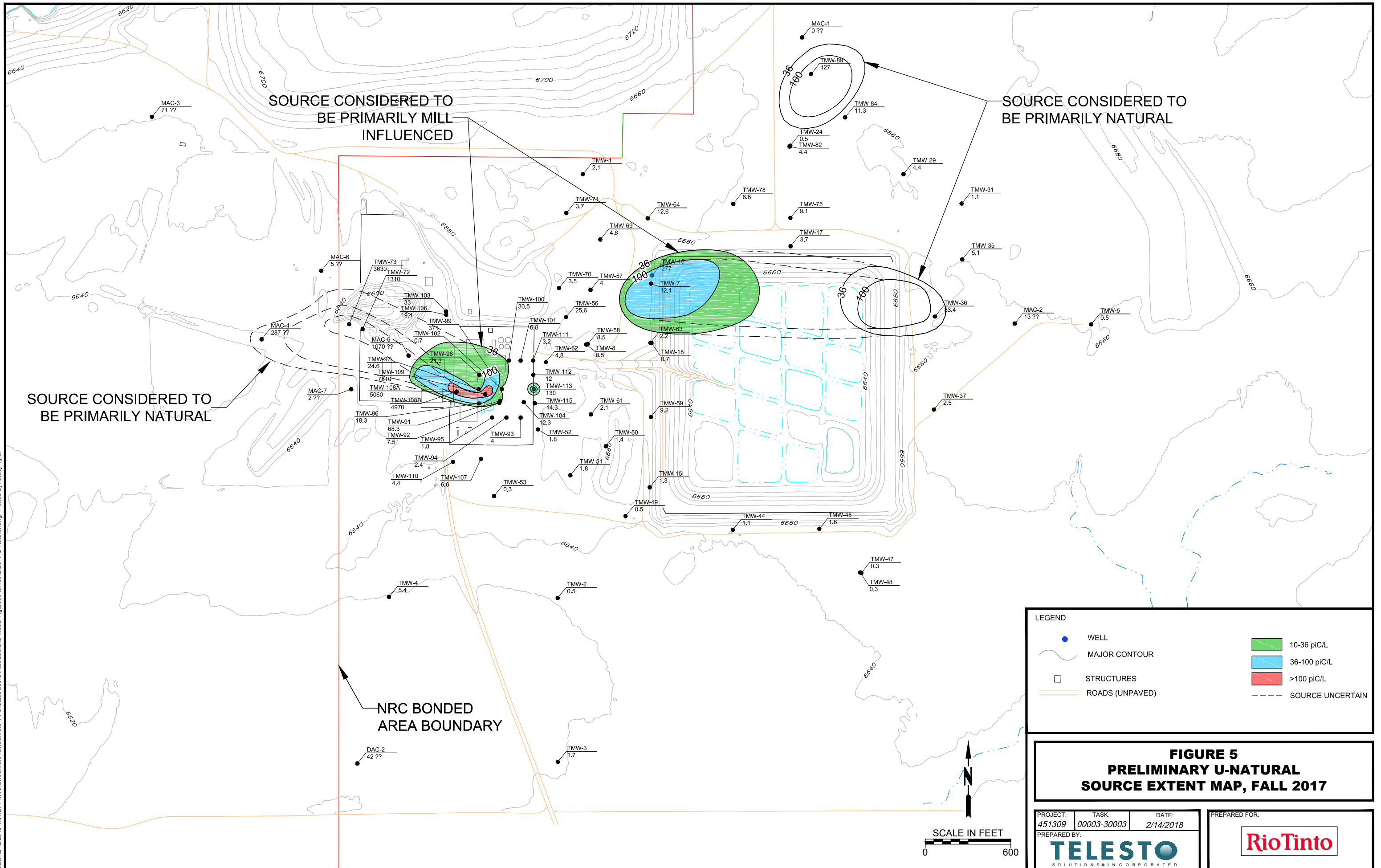
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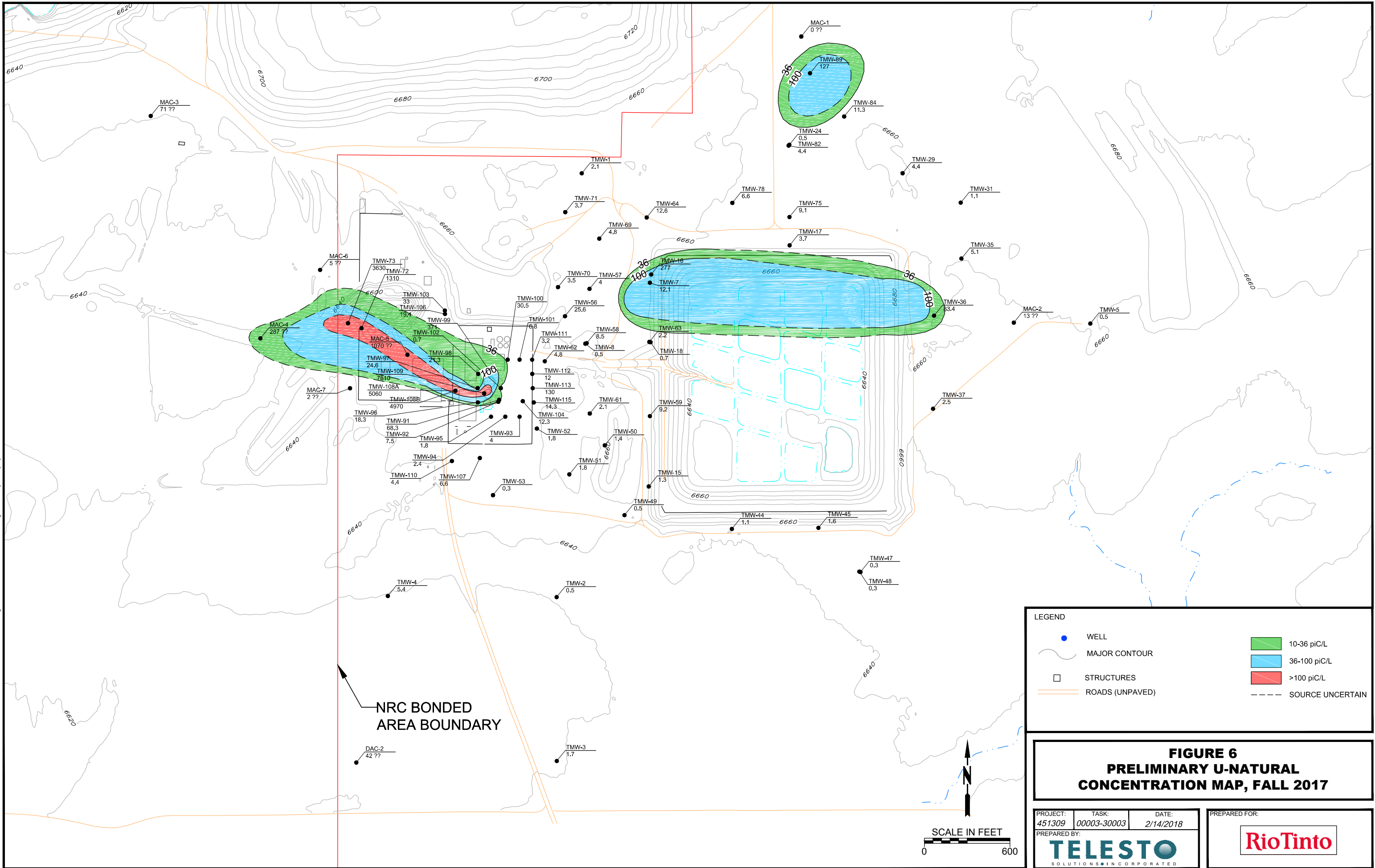
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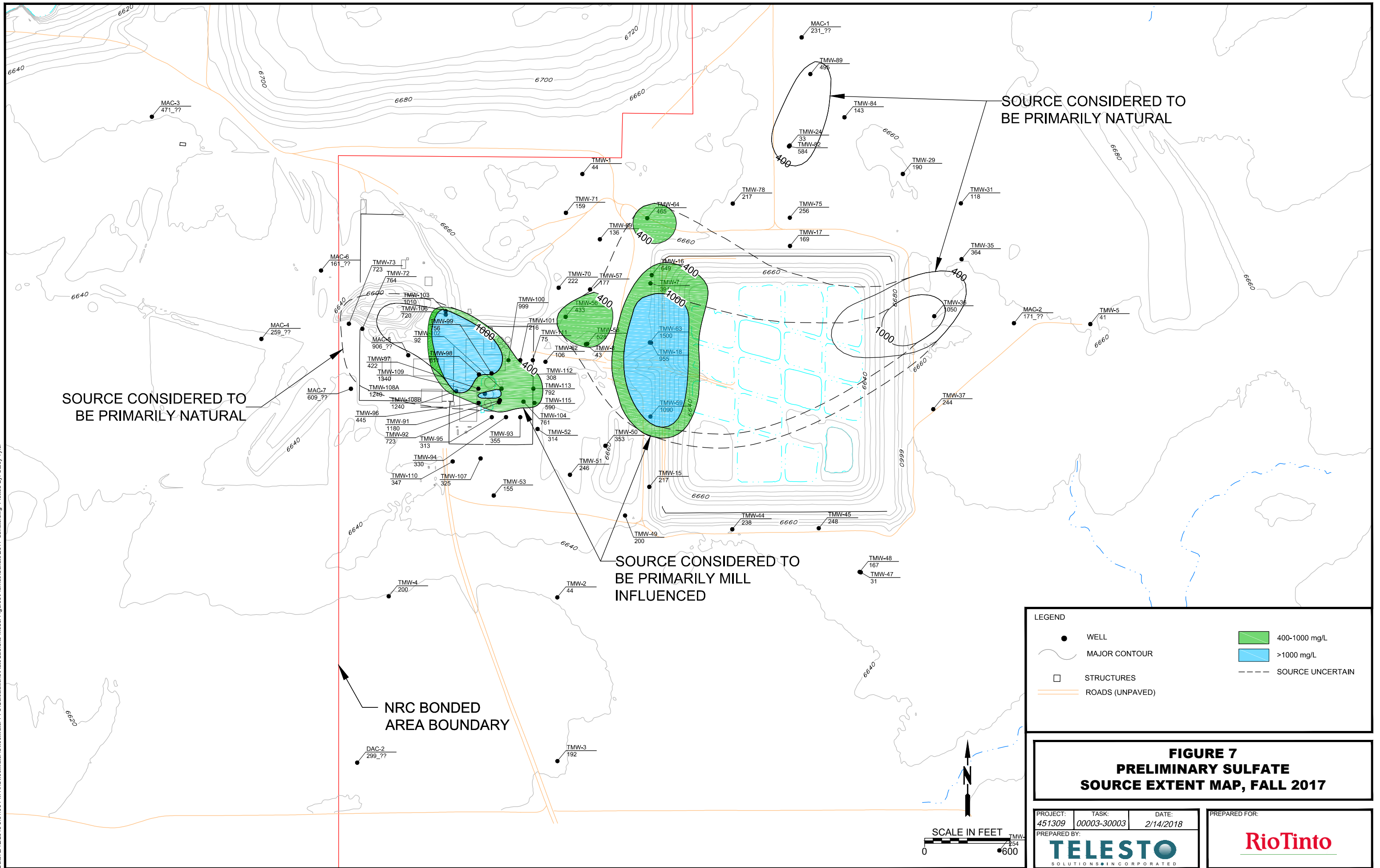
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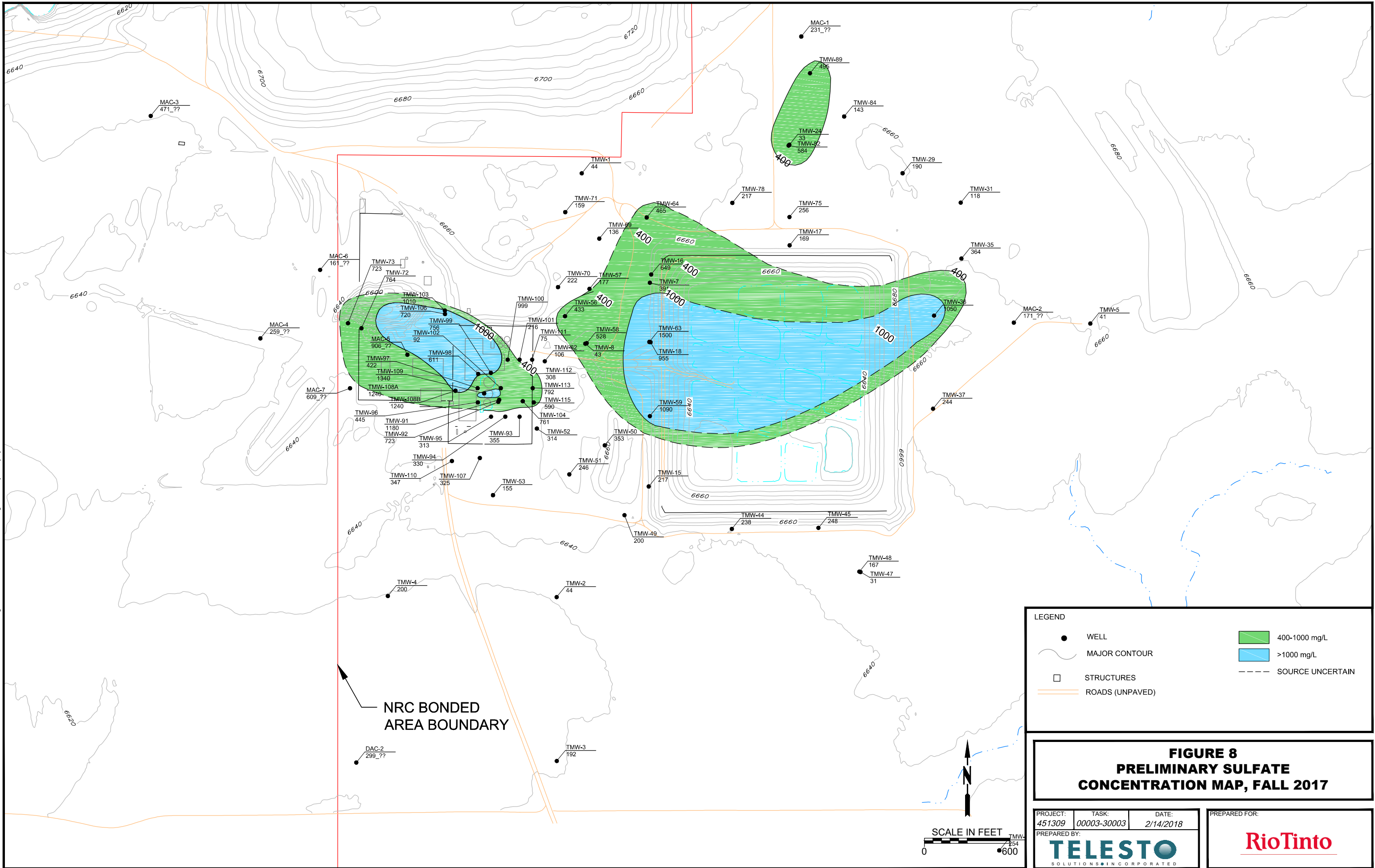
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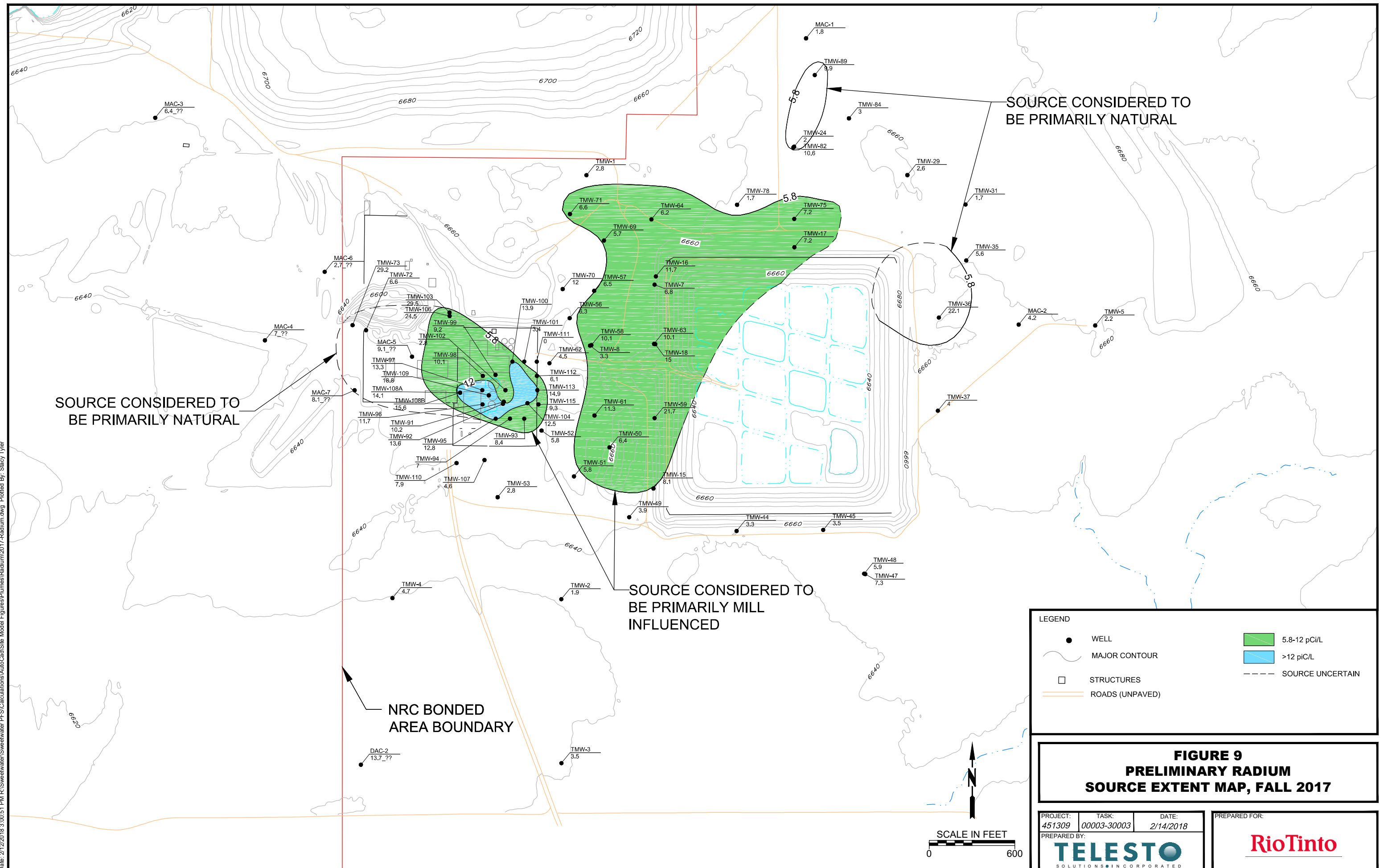


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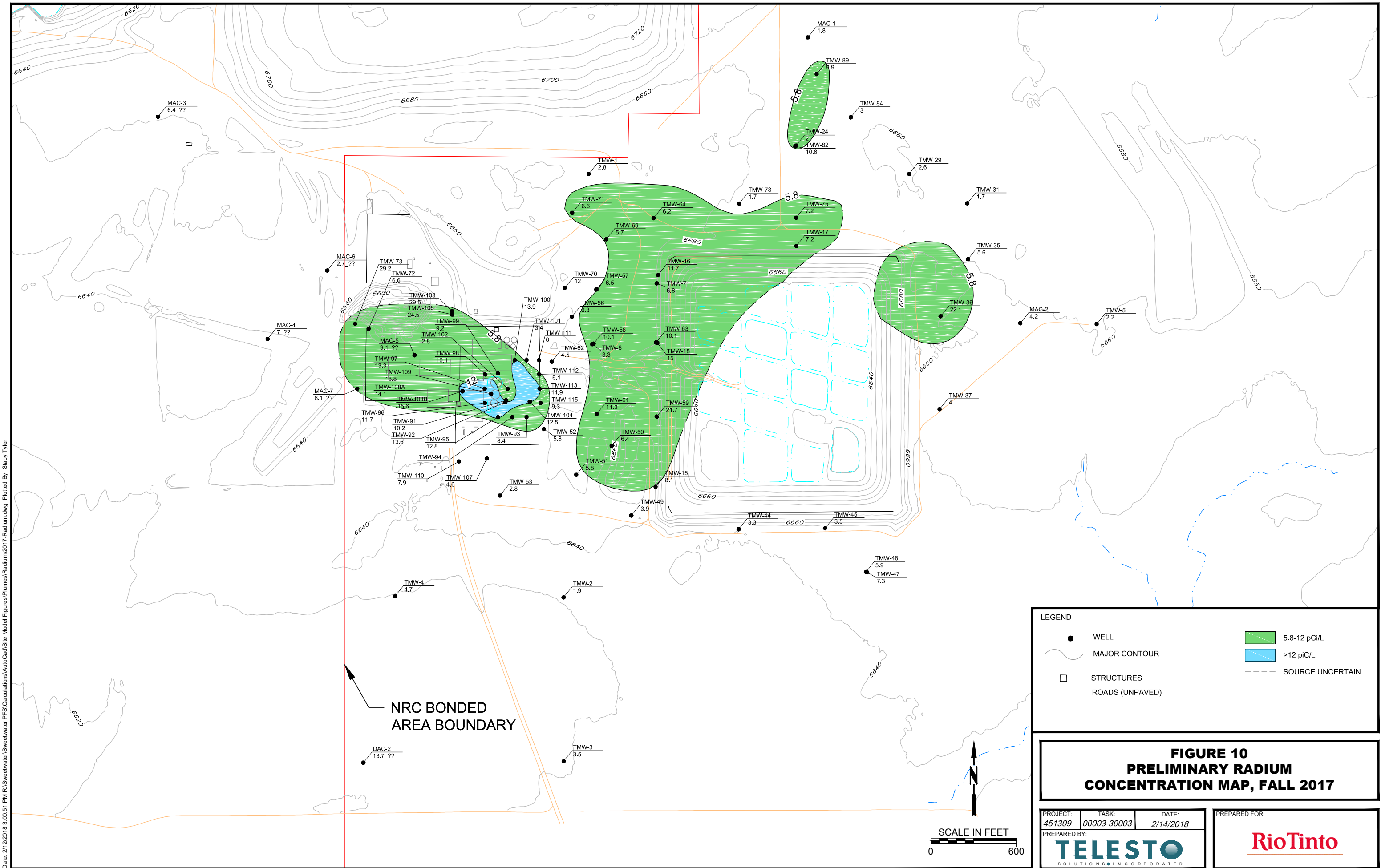


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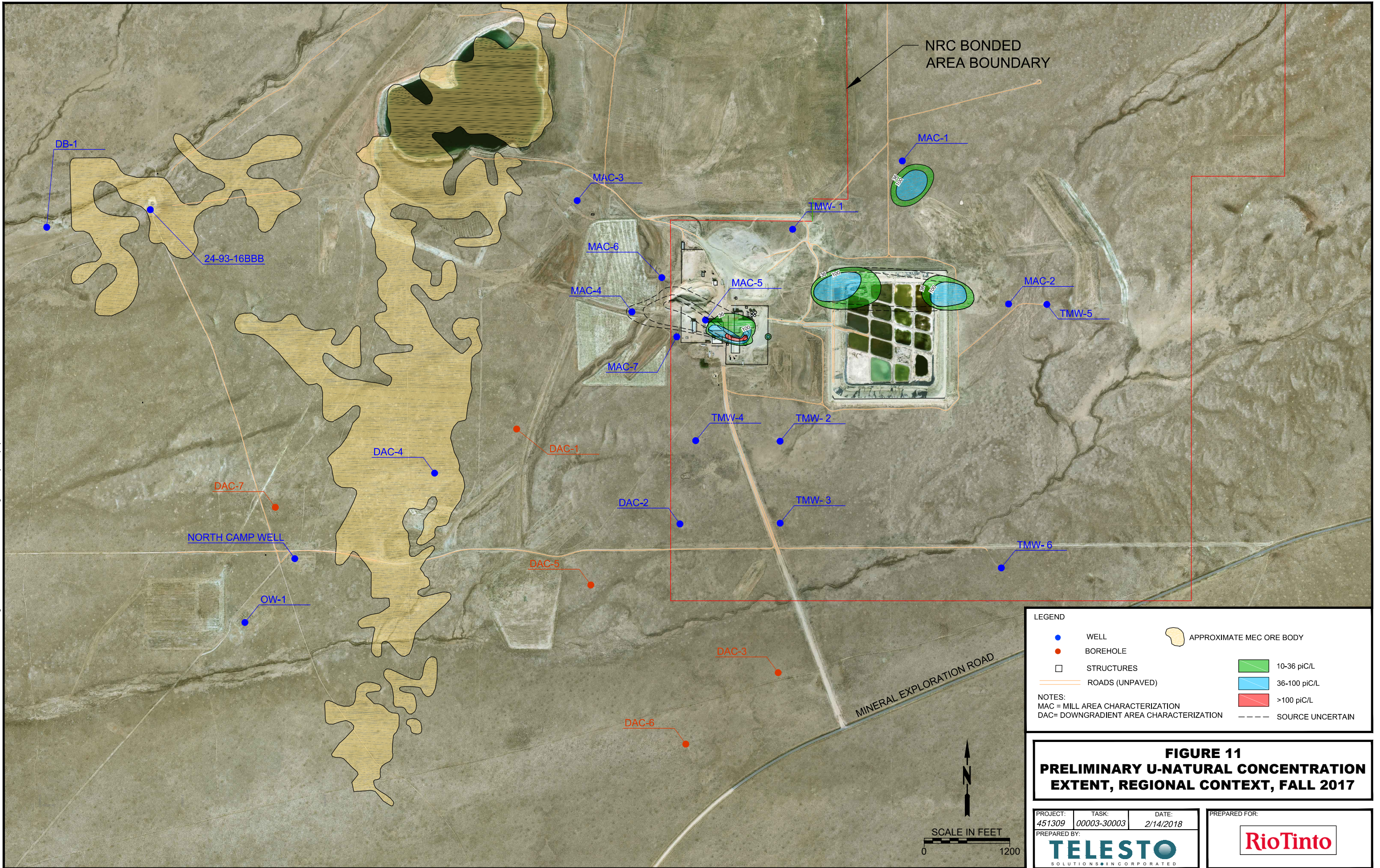




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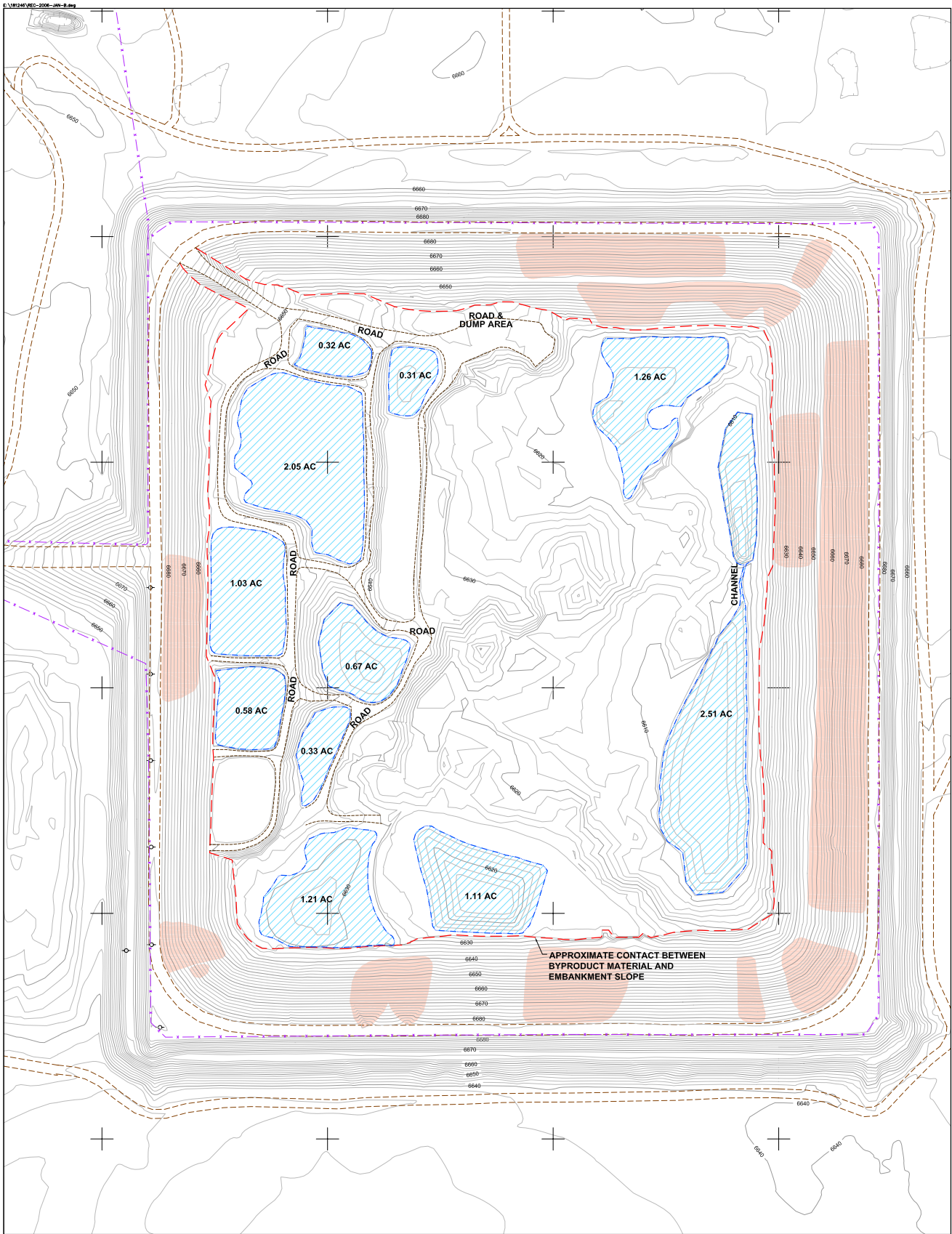
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Tailings Impoundment – July 21, 1994

Image from Google Earth

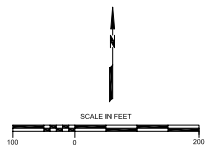


NOTES:

1. TOPOGRAPHY OF TAILINGS AREA FROM GPS SURVEY BY ROBERT JACK SMITH & ASSOC. AUGUST 23, 2005.
2. SURROUNDING TOPOGRAPHY FROM NOVEMBER 3, 1996 AERIAL PHOTOGRAPHY.
3. APPROXIMATE TAILINGS POND AREAS FROM AUGUST 23, 2005 GPS SURVEY DATA AND JULY 25, 2005 DIGITAL PHOTOGRAPHY BY MFG, INC.
4. APPROXIMATE SYNTHETIC LINER AREAS FROM JULY 25, 2005 DIGITAL PHOTOGRAPHY BY MFG, INC.

LEGEND:

- APPROXIMATE POND AREAS, JULY-AUGUST 2005
- APPROXIMATE AREAS OF WIND-DAMAGED SYNTHETIC LINER, JULY 2005



REVISIONS	No.	DESCRIPTION	BY	CHKD.	DATE
	1	PREPARED FOR KEC USE AND CONTRACTOR BIDDING	CLS		0108

PREPARED BY



PREPARED FOR



SWEETWATER URANIUM PROJECT

EXISTING IMPOUNDMENT CONFIGURATION

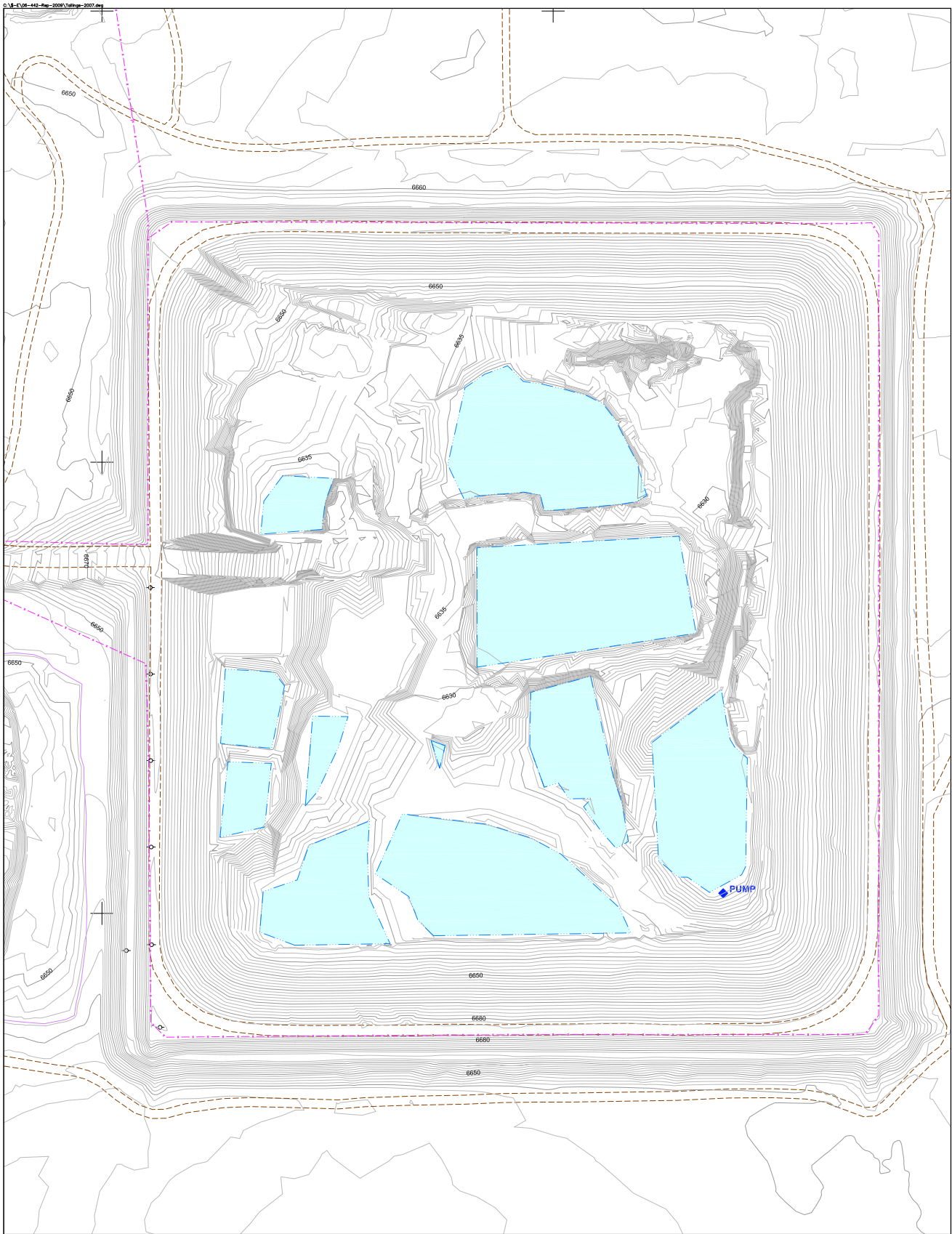
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SCALE: AS SHOWN
DATE: JANUARY 2006
NOTES: REC-2005-JAN-8.dwg

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CHECKED BY: [Symbol]



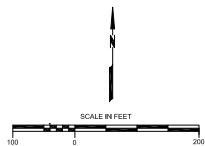
Tailings Impoundment – July 10, 2006

Image from Google Earth



LEGEND:

 WATER COVERED AREA



REVISIONS	No.	DESCRIPTION	BY	CHKD.	DATE

PREPARED BY



PREPARED FOR



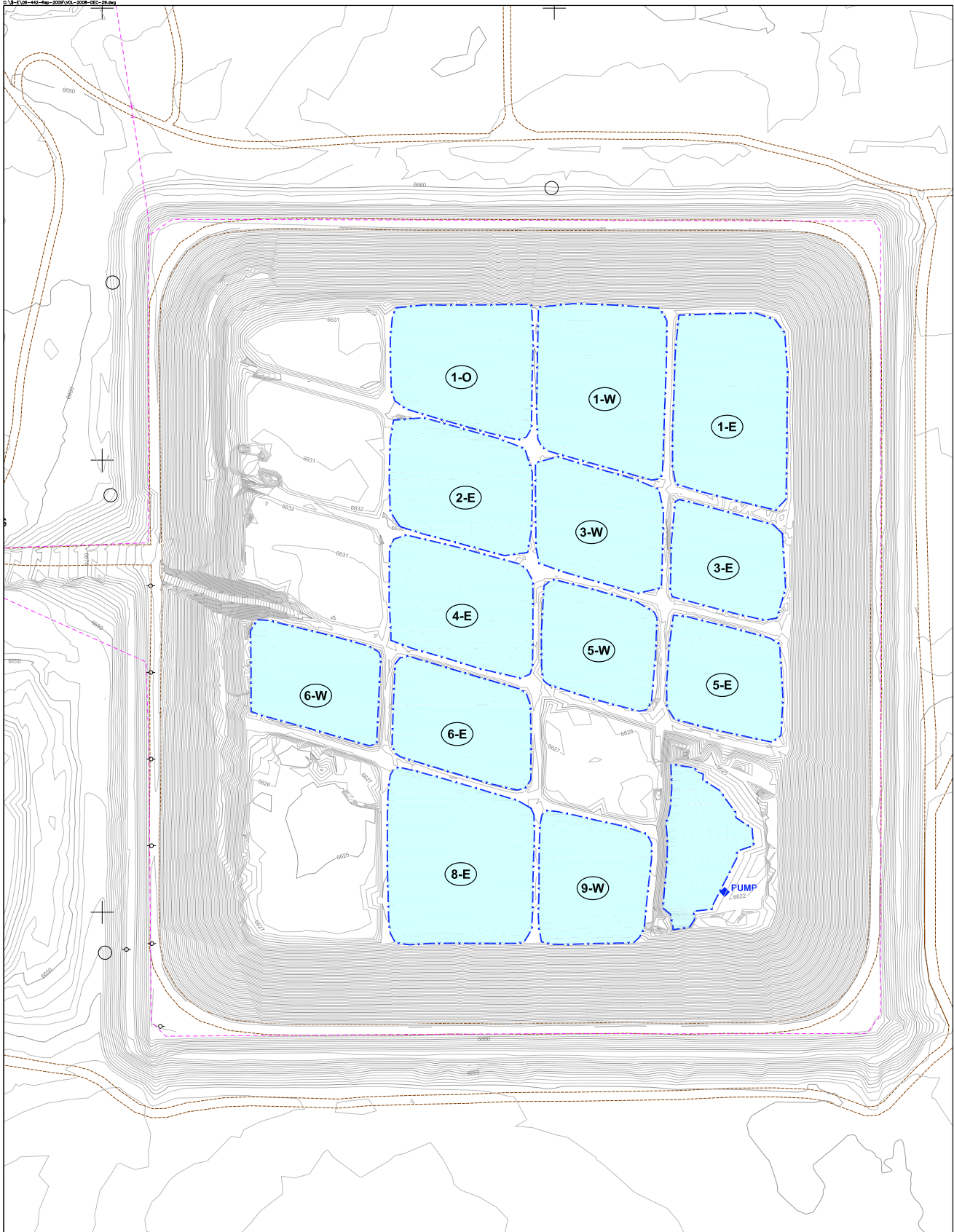
SWEETWATER URANIUM PROJECT

EXISTING CONTOURS
OCTOBER 2007

PROJECT
180889 (181245)

DATE
FEBRUARY 2009

DRAWING NUMBER
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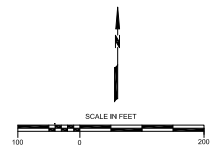


LEGEND:

1W POND DESIGNATION

1W WATER COVERED AREA

POST-REGRADING CONTOURS FROM DECEMBER 29, 2008



REVISIONS	No.	DESCRIPTION	BY	CHKD.	DATE

PREPARED BY

Tt

TETRA TECH

PREPARED FOR

RIO TINTO

ENERGY AMERICA

SWEETWATER URANIUM PROJECT

EXISTING CONTOURS

DECEMBER 29, 2008

PROJECT: 180889 (181245) DATE: JANUARY 2009 DRAWING: REVISION

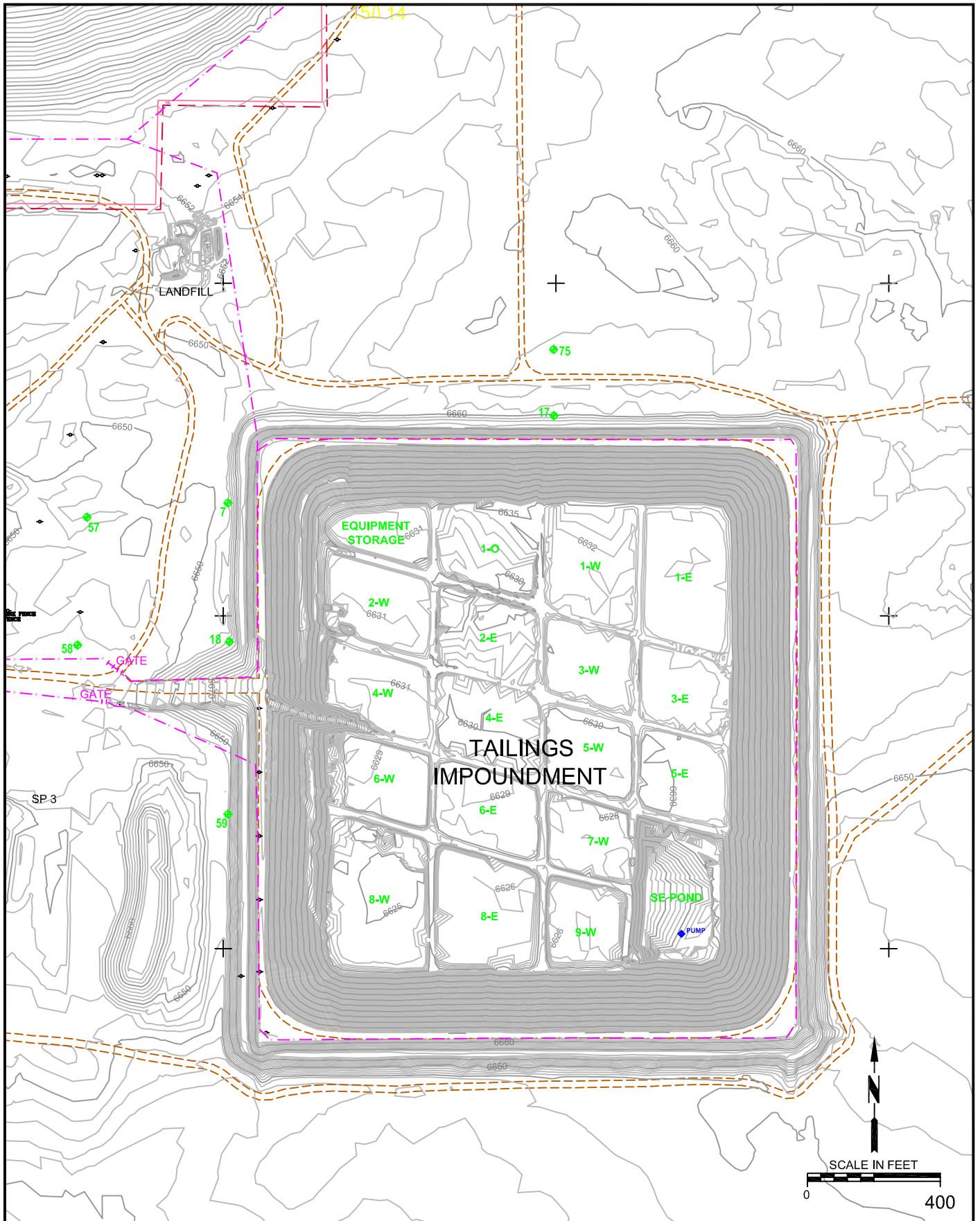
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Tailings Impoundment – July 4, 2009

Image from Google Earth

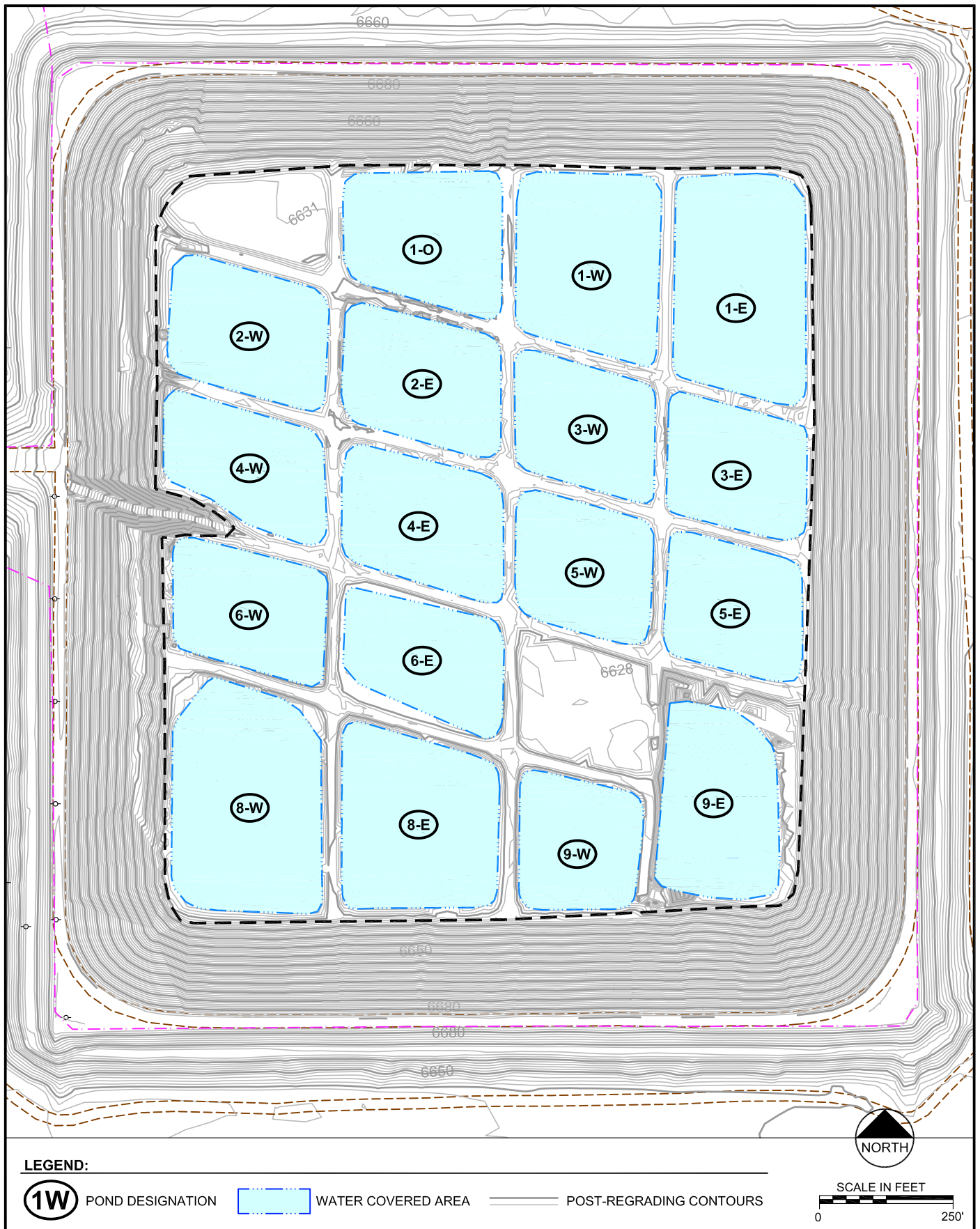
7/8/2010 P:\Sweetwater\SweetwaterUranium\Calculations\AutoCad\TOPO2009-JUL_Telesto exhibits.dwg



PROJECT: 451101
TASK: -
PREPARED BY:
TELESTO
SOLUTIONS INCORPORATED

FIGURE 2
JULY 2009 TAILINGS AREA SURVEY

PREPARED FOR:
SWEETWATER
URANIUM
FACILITY



SWEETWATER URANIUM FACILITY
TAILINGS IMPOUNDMENT – DECEMBER 2009

Date: FEBRUARY 2010
Project: 06-442\REP2010\
File: Tailings 2009-Dec.dwg



Tailings Impoundment – June 8, 2014

Image from Google Earth



February 15, 2017



April 10, 2017



April 25, 2017



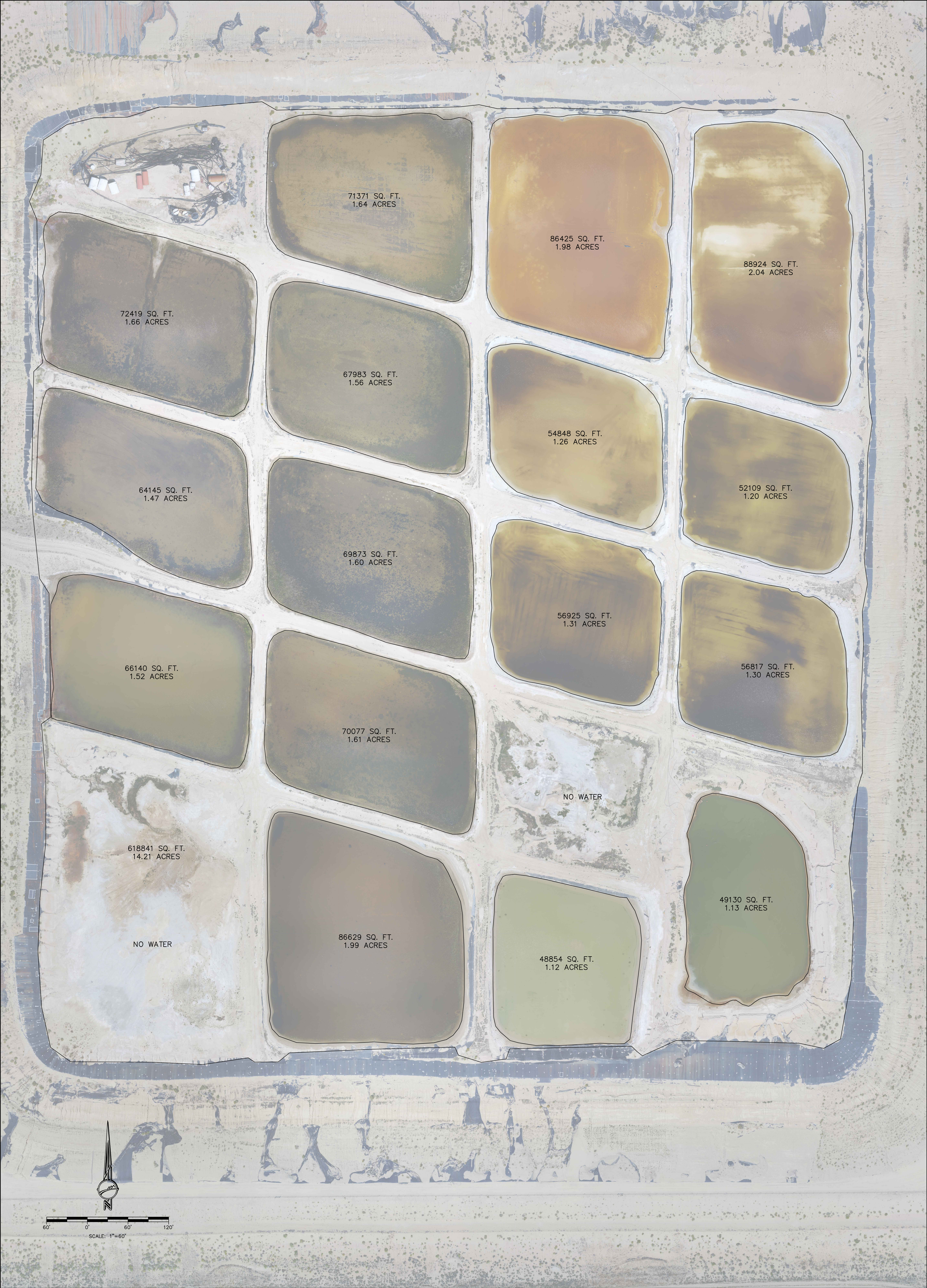
May 17, 2017



October 30, 2017

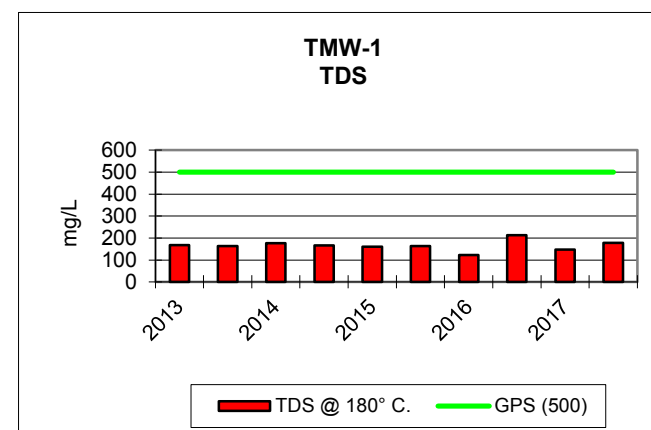
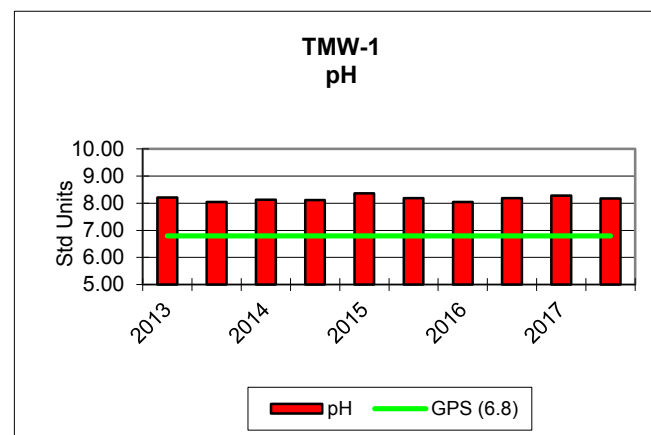


November 27, 2017



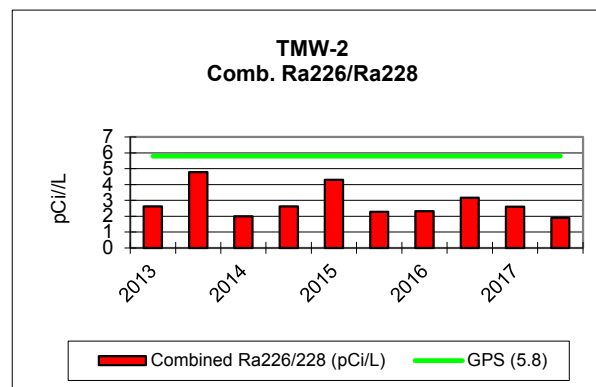
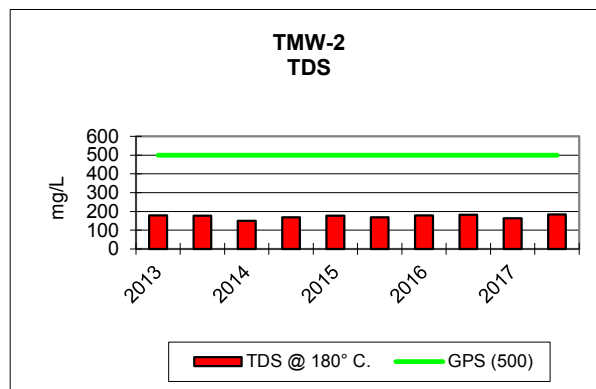
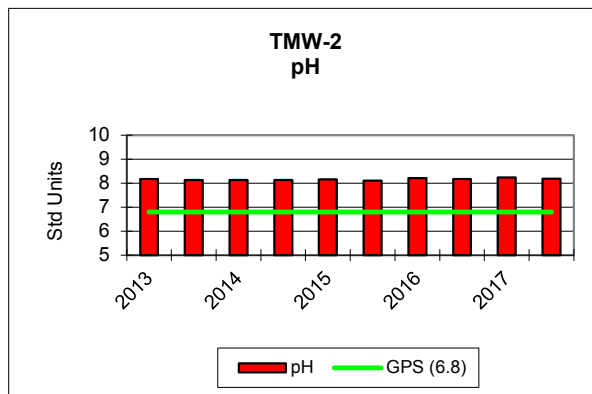
Tailings Monitor Well Analyses and Control Charts

KENNECOTT URANIUM COMPANY											
TMW-1		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2013	7/15/2013	1/18/2014	7/1/2014	1/13/2015	7/7/2015	1/26/2016	7/19/2016	3/13/2017	7/11/2017
TDS A/C Balance (dec. %)		-1.45	-2.94	-1.46	0.04	2.43	0.87	18.6	0.69	0.49	4.47
Alk-CaCO3		87	96	90	87	84	90	62	88	79	88
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.001	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		106	117	110	107	103	109	76	107	96	107
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		19.3	18.8	23.1	18.8	17.9	19.5	18.2	17.4	17.9	24.1
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		2	2	3	2	3	2	2	2	2	2
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		258	251	289	249	285	248	176	250	252	275
Cond-Field (umhos/cm)		285	280	313	279	278	278	253	379	272	273
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	<0.1	0.1	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	1.5	0.9	1.4	1.2	8.3	1.9	4.2	3.1	1.6	1.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.2	0.4	-0.02	0.78	1.6	1.3
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		1	0.9	1.2	0.8	0.8	0.9	1.2	0.8	0.7	1
Manganese (Mn)	GPS (0.2)	0.01	0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.21	8.04	8.13	8.11	8.36	8.19	8.05	8.19	8.28	8.18
pH (Field) (Std. Units)		7.8	8.65	8.1	8.8	8.09	8.11	8.41	7.63	8.36	10.1
Potassium (K)		1.4	1.4	1.5	1.4	1.3	1.4	1.5	1.6	1.2	1.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.2	3.39	3.6	1.66	2.6	5.4	4	2.02	3.9	2.8
Radium 226 (pCi/L)		1.5	0.89	1.6	0.96	1.3	1.4	1.2	0.92	1.2	1.1
Radium 228 (pCi/L)		0.7	2.5	2	0.7	2.9	4	2.8	1.1	2.7	1.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.8	13.5	12.8	13.2	13	14.8	13.1	12.4	14.1	14.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		34.3	34.8	35.7	34.8	32.7	36.4	36.5	31.9	32.2	38.8
TDS @ 180° C.	GPS (500)	168	163	176	166	161	164	123	213	148	178
Sulfate (SO4)		40	35	50	36	36	36	24	38	37	44
Temperature (C)		8.4	13.8	9.8	10.3	9.3	10	9	12.9	8.7	11.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.02	0.2	0.03	0.04	0.2	0.1	-0.006	0.0007	0.03	0.07
Uranium, natural (pCi/L)	GPS (36)	3.4	1.8	2.5	1.2	1.1	0.7	0.8	1	0.6	2.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01



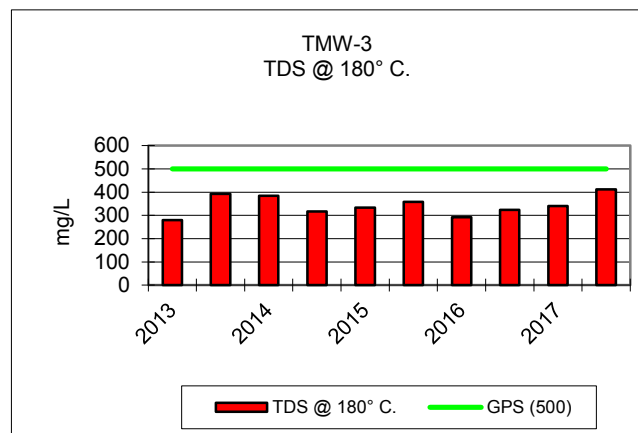
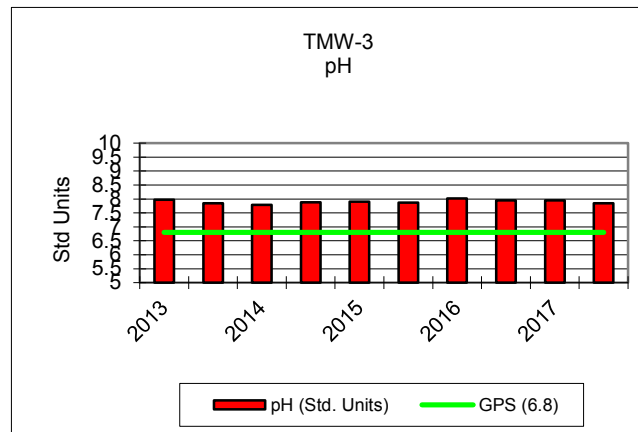
TMW-1

KENNECOTT URANIUM COMPANY											
TMW-2		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/12/2013	7/15/2013	1/18/2014	7/14/2014	1/13/2015	7/14/2015	1/17/2016	7/18/2016	3/7/2017	7/11/2017
TDS A/C Balance (dec. %)		-1.49	-2.96	-1.86	1.09	1	1.22	2.4	0.36	3.26	3.65
Alk-CaCO3		92	100	89	92	90	92	91	93	91	91
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.002	0.002	0.001	0.002	0.001	0.002	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		112	122	109	112	109	112	111	113	110	111
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		22.8	23.8	20.2	22.7	25	26.6	23.9	25.4	23.6	26.7
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		2	2	2	3	3	3	3	3	3	3
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		267	275	261	275	278	271	276	282	285	279
Cond-Field (umhos/cm)		284	287	297	236	299	280	285	422	301	291
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	0.6	1	0.7	0.6	7.5	5.5	7	1.1	1.2	1.5
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	-0.04	0.5	0.4	1.4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05
Magnesium (Mg)		1.2	1.3	1	1.3	1.3	1	1.2	1.4	1.2	1.4
Manganese (Mn)	GPS (0.2)	0.01	0.01	<0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.18	8.14	8.14	8.14	8.16	8.11	8.22	8.18	8.24	8.19
pH (Field) (Std. Units)		7.86	8.45	8	6.8	8.69	8.31	8.32	7.41	9.21	10.65
Potassium (K)		1.4	1.5	1.4	1.7	1.6	4.3	1.5	1.6	1.5	1.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.63	4.79	1.99	2.62	4.3	2.29	2.32	3.17	2.6	1.9
Radium 226 (pCi/L)		0.83	0.99	0.89	0.82	1.6	0.89	0.82	0.87	1.2	0.8
Radium 228 (pCi/L)		1.8	3.8	1.1	1.8	2.7	1.4	1.5	2.3	1.4	1.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.1	14	13.4	15	14	15	12.9	13.6	13.5	14.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		32.4	33.2	33.2	34.3	33.7	28	31.4	34.3	31.5	35.3
TDS @ 180° C.	GPS (500)	179	178	151	169	177	169	179	182	164	184
Sulfate (SO4)		40	41	39	43	44		44	48	47	44
Temperature (C)		11.7	12.9	8.4	10.7	9	10.2	8.6	11.7	8.4	10
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.03	0.04	0.5	0.2	0.08	0.2	-0.009	-0.03	0.1	0.03
Uranium, natural (pCi/L)	GPS (36)	0.2	0.2	0.5	0.7	0.4	0.4	0.4	1.8	0.3	0.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



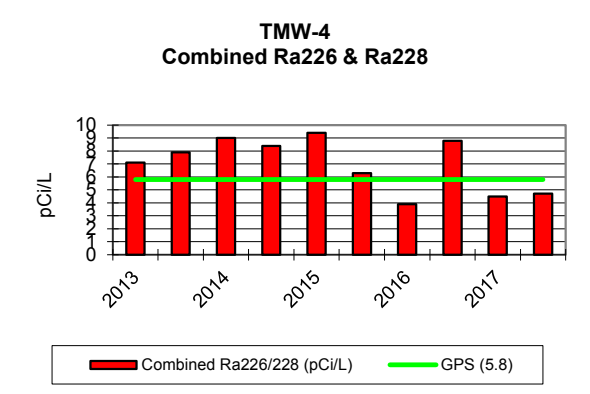
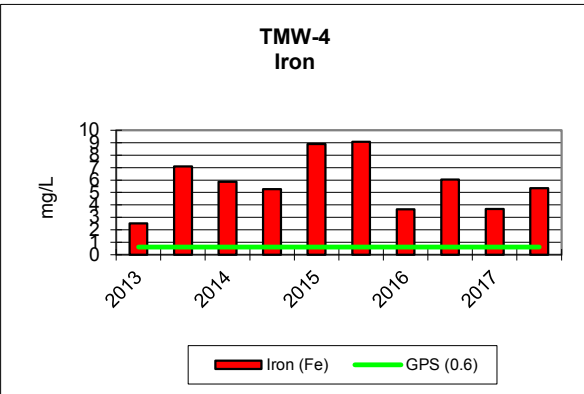
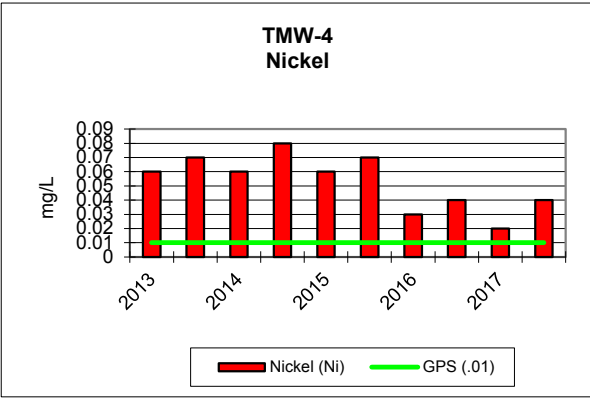
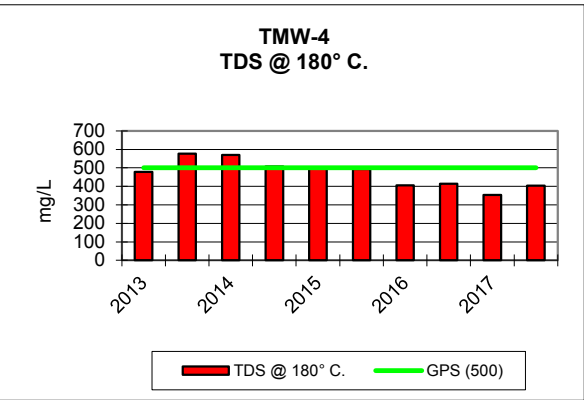
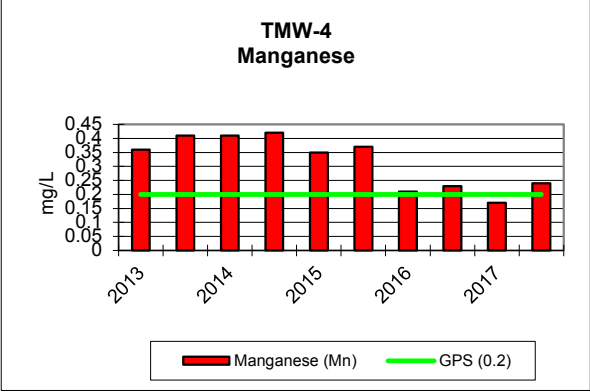
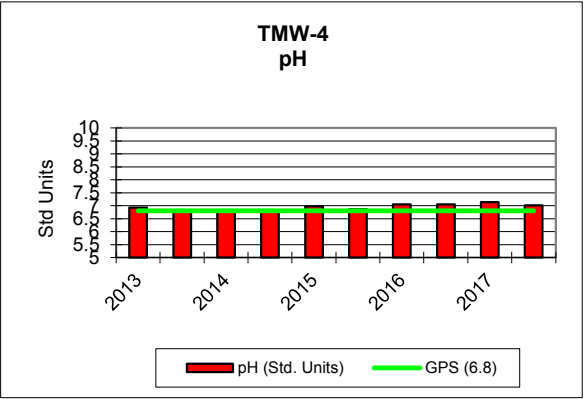
TMW-2

KENNECOTT URANIUM COMPANY											
TMW-3		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/12/2013	7/15/2013	1/18/2014	7/14/2014	1/13/2015	7/14/2015	1/17/2016	7/18/2016	3/6/2017	7/17/2017
TDS A/C Balance (dec. %)		-1.44	-1.83	0.21	0.09	0.72	2.58	4.56	0.23	1.71	0.42
Alk-CaCO3		98	119	105	104	98	104	97	102	99	100
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	ND	ND
Arsenic (As)	GPS (.05)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		119	146	128	127	120	127	119	125	121	123
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		46.4	73.9	74.8	66.5	61.1	67.1	47.4	58.6	59.5	79.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		4	6	5	5	5	5	4	5	5	5
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		415	572	581	543	495	535	434	492	510	621
Cond-Field (umhos/cm)		439	586	651	623	499	577	449	596	458	658
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	1	1.4	1.4	1.3	8.4	4.9	3.7	2.4	2.5	2.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.11	0.08	<0.05	<0.05	0.1	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.08	-0.6	-0.2	-0.1	0.04	0.1	0.9	1.5	1.6
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		3.4	6.4	6.6	6.3	4.9	5.3	3.5	4.7	4.6	7
Manganese (Mn)	GPS (0.2)	0.03	0.05	0.05	0.05	0.04	0.05	0.03	0.04	0.04	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.97	7.85	7.79	7.88	7.9	7.87	8.02	7.95	7.95	7.85
pH (Field) (Std. Units)		7.52	7.9	7.9	8.1	8.43	7.67	8.05	6.93	8.63	7.23
Potassium (K)		1.8	2.3	2.2	2.3	2.2	2.9	1.7	2.1	2.1	2.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.5	5	4.97	5.8	5.7	3.8	3.34	4.4	5.6	3.5
Radium 226 (pCi/L)		0.8	1.2	0.97	1.1	2.3	1.2	0.84	1.3	1.3	1.5
Radium 228 (pCi/L)		3.7	3.8	4	4.7	3.4	2.6	2.5	3.1	4.3	2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.9	13.7	13.7	15.2	13.8	14.5	12.8	13.5	13.9	13.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		34.9	37.7	36.7	38.9	37.6	33.4	31.8	36.8	36.5	36.9
TDS @ 180° C.	GPS (500)	280	392	384	317	333	358	292	324	340	412
Sulfate (SO4)		106	172	175	162	142	162	115	135	146	192
Temperature (C)		11.1	13.3	9.5	13	8.4	9.3	8.5	13.2	7.5	11.8
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.006	0.05	0.3	0.1	0.07	0.1	0.02	0.08	0.2	-0.003
Uranium, natural (pCi/L)	GPS (36)	0.5	1.4	1.3	1.2	1	1.2	0.8	1.6	0.7	1.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02

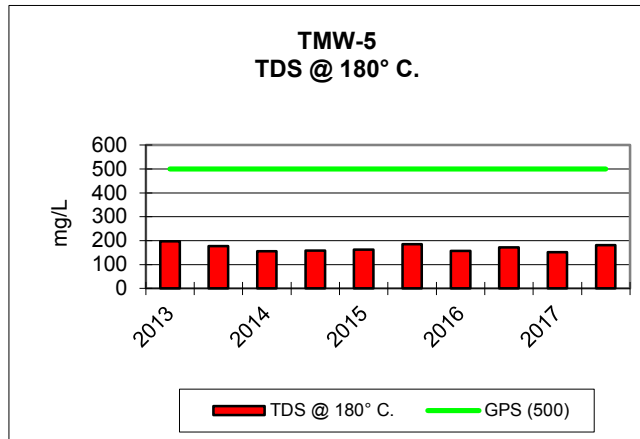
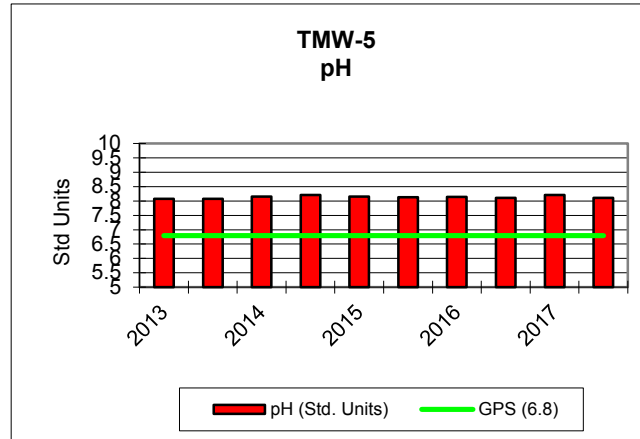


TMW-3

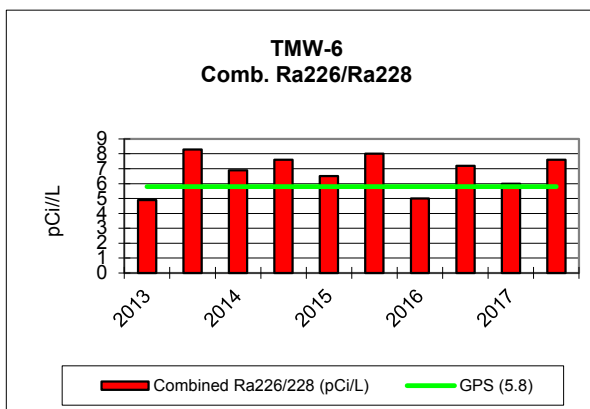
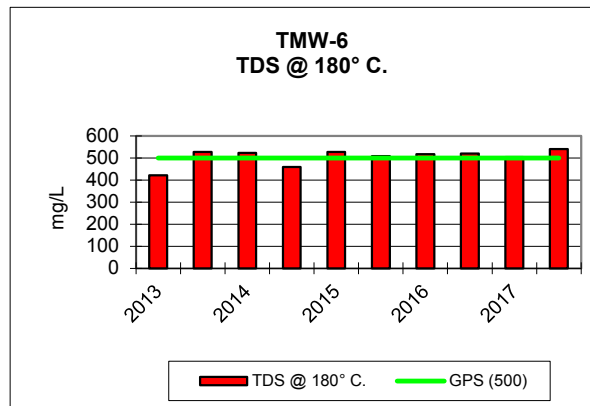
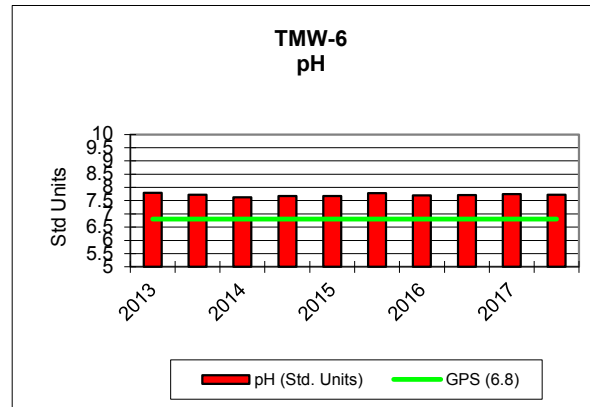
KENNECOTT URANIUM COMPANY											
TMW-4		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/12/2013	7/16/2013	1/18/2014	7/14/2014	1/13/2015	7/14/2015	1/17/2016	7/18/2016	3/6/2017	7/17/2017
TDS A/C Balance (dec. %)		1.16	-1.53	-1.5	0.15	0.39	1.35	4.4	2.42	3.73	3.12
Alk-CaCO3		73	81	82	73	74	74	75	76	77	71
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	0.002	0.002	<0.001	0.002	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		90	99	100	89	90	90	92	93	94	87
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		80	95.1	96.1	91.7	81.4	89.9	60.3	65.6	52.9	64
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	6	6	6	6	5	5	5	5	5
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.042	0.051	0.051	0.053	0.043	0.046	0.024	0.026	0.018	0.025
Cond (umhos/cm)		673	795	797	768	707	712	582	604	540	592
Cond-Field (umhos/cm)		725	826	890	917	664	758	624	861	513	581
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	<0.1	0.2
Gross Alpha (pCi/L)	GPS (15)	2	2	2.3	3.5	12.7	8.8	3.9	1.7	3.7	1.8
Iron (Fe)	GPS (0.6)	2.52	7.09	5.87	5.28	8.9	9.09	3.64	6.05	3.68	5.34
Lead (Pb210) (pCi/L)	GPS (8.9)	0.07	0.6	-0.6	0.1	-0.1	-0.07	0.6	0.96	1.2	0.6
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		14.1	16.4	16.7	18	14.4	12.3	9.5	10.1	7.5	10.6
Manganese (Mn)	GPS (0.2)	0.36	0.41	0.41	0.42	0.35	0.37	0.21	0.23	0.17	0.24
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.06	0.07	0.06	0.08	0.06	0.07	0.03	0.04	0.02	0.04
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	6.93	6.81	6.8	6.77	6.98	6.86	7.05	7.05	7.14	7.02
pH (Field) (Std. Units)		6.88	6.71	6.9	6.8	6.96	6.41	7.009	6.6	7.18	6.4
Potassium (K)		2.8	3	3	3.2	2.9	5.7	2.3	2.7	2.2	2.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.1	7.9	9	8.4	9.4	6.3	3.9	8.8	4.5	4.7
Radium 226 (pCi/L)		1.3	2.1	1.9	1.6	3.3	1.7	1.3	1.4	1.2	1.1
Radium 228 (pCi/L)		5.8	5.8	7.1	6.8	6.1	4.6	2.6	7.4	3.3	3.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.2	14.3	13.9	15.4	13.8	15.5	11.7	13.1	13	12.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		42.4	44	43	45.2	42.8	35.8	37.2	43.1	40.6	44.9
TDS @ 180° C.	GPS (500)	478	577	570	507	498	494	406	414	353	403
Sulfate (SO4)		254	314	315	310	268	278	207	197	182	200
Temperature (C)		10.5	13.5	9.1	10.5	8.7	10.1	8.5	10.9	8.6	11.8
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.02	0.02	0.05	0.07	0.06	0.05	-0.02	0.005	0.1	0.05
Uranium, natural (pCi/L)	GPS (36)	4.3	6.2	6.7	7.4	7.3	7.2	5.3	9.7	5	5.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	0.04	0.04	0.06	0.04	0.03	0.01	0.02	0.02	0.03



KENNECOTT URANIUM COMPANY		2013		2014		2015		2016		2017	
TMW-5											
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2013	7/15/2013	1/18/2014	7/14/2014	1/13/2015	7/7/2015	1/27/2016	7/19/2016	3/20/2017	7/11/2017
TDS A/C Balance (dec. %)		-0.561	-3.8	-1	1.16	1.94	2.53	0.83	0.35	3.44	0.83
Alk-CaCO3		97	107	92	99	89	98	93	94	86	94
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.1	0.001	0.001
Barium (Ba)		<0.1	0.3	<0.1	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		118	131	113	121	109	119	113	115	105	114
Boron (B)		0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		26.7	24	22.7	23.7	23.8	24.6	23.1	21.7	22.5	24.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		3	2	2	3	3	3	2	3	2	2
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		286	265	258	263	263	272	254	262	254	295
Cond-Field (umhos/cm)		322	279	304	238	292	282	255	388	253	214
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2.1	0.9	1.4	2.1	6.1	2.4	5.8	2.7	2	1.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	0.3	-1	0.5	0.2	-0.4	0.4	-1.7	0.5	0.5
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		1.4	1.3	1.2	1.2	1.2	1.2	1.2	1	1.1	1.2
Manganese (Mn)	GPS (0.2)	<0.01	0.02	<0.01	1.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.02	<0.01	1.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.08	8.08	8.15	8.21	8.16	8.13	8.14	8.11	8.21	8.11
pH (Field) (Std. Units)		7.2	8.64	8.2	8.4	8.72	8.08	8.1	7.25	8.68	9.84
Potassium (K)		1.5	1.4	1.5	1.6	1.6	1.4	1.6	1.6	1.5	1.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.8	6.37	4.2	3.4	4.5	2.9	2.6	2.58	4.1	2.2
Radium 226 (pCi/L)		1.7	0.87	1.5	1.6	2.7	1.7	1.2	0.98	1.7	1.2
Radium 228 (pCi/L)		2.1	5.5	2.7	1.8	1.8	1.2	1.4	1.6	2.4	1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.9	14	14.2	16.1	14.3	14.4	14.3	12.9	15.2	13.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		33.3	32.6	30.7	33.3	32.5	31.5	32.2	29.6	32.5	31.5
TDS @ 180° C.	GPS (500)	197	177	156	158	163	185	157	172	152	181
Sulfate (SO4)		45	36	35	37	37	40	34	37	33	41
Temperature (C)		8.5	14	10.2	10.5	8.7	9.6	8.7	12.8	9.5	11.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	0.3	0.2	0.06	0.09	0.07	0.003	0.08	0.03
Uranium, natural (pCi/L)	GPS (36)	0.5	0.6	0.3	0.4	0.3	0.4	0.3	0.5	1.1	0.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.07	<0.01	0.02	<0.01	<0.01	<0.01	0.02	0.01	<0.01



KENNECOTT URANIUM COMPANY											
TMW-6		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2013	7/15/2013	1/18/2014	7/14/2014	1/13/2015	7/20/2015	1/17/2016	7/18/2016	3/7/2017	7/5/2017
TDS A/C Balance (dec. %)		0.416	-0.749	-0.427	1.05	1.14	2.83	4.36	1.66	2.96	0.75
Alk-CaCO3		124	153	139	138	132	139	134	139	133	135
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		152	187	170	168	161	170	163	170	162	165
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		82.3	111	107	109	110	106	99.1	109	103	112
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		4	6	6	6	6	6	6	6	6	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		602	749	750	743	751	749	730	763	763	815
Cond-Field (umhos/cm)		647	765	830	628	778	783	762	983	839	980
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.4	3.3	3.3	4.5	19.9	7.6	6.9	3.8	3.7	2.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.19	0.17	0.06	0.18	0.06	0.16
Lead (Pb210) (pCi/L)	GPS (8.9)	0.5	0.3	-0.3	0.2	0.3	-0.2	0.3	0.95	0.8	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		7.1	9.4	9.2	9.8	9.2	8.7	8	9	8.7	9.3
Manganese (Mn)	GPS (0.2)	0.11	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.8	7.72	7.63	7.68	7.67	7.78	7.7	7.71	7.75	7.72
pH (Field) (Std. Units)		6.96	7.69	7.7	7.6	7.74	7.27	7.64	7.34	7.26	7.07
Potassium (K)		2.4	2.9	2.7	3	2.9	2.8	2.6	3.1	2.8	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.9	8.3	6.9	7.6	6.5	8	5	7.2	6	7.6
Radium 226 (pCi/L)		3.3	2.8	2.6	2.6	2.4	2.5	2.8	2.7	3	3.1
Radium 228 (pCi/L)		1.6	5.5	4.3	5	4.1	5.5	2.2	4.5	3	4.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.1	13.3	13.1	15.2	13.4	13.3	12.3	13.1	13.5	13.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		38.1	41.1	38.6	41.4	40.8	39.6	35.6	41.3	40	42.6
TDS @ 180° C.	GPS (500)	422	527	524	460	527	509	518	521	505	540
Sulfate (SO4)		180	242	239	241	245	255	241	266	253	254
Temperature (C)		8.7	13.1	9.7	13.9	8.8	9.8	8.4	11.7	9.8	12.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	0.1	0.02	0.06	0.2	0.05	0.007	0.1	0.1
Uranium, natural (pCi/L)	GPS (36)	1.9	2.7	2.5	2.7	2.3	1.8	4	3	1.9	2.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

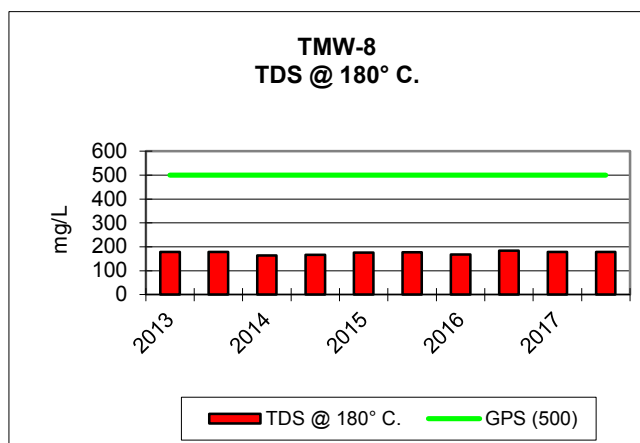
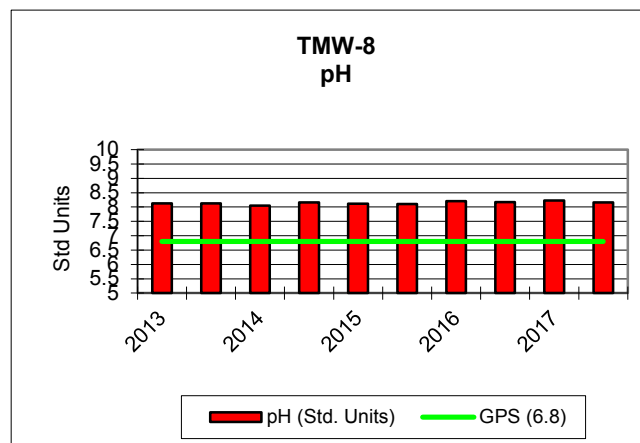


TMW-6

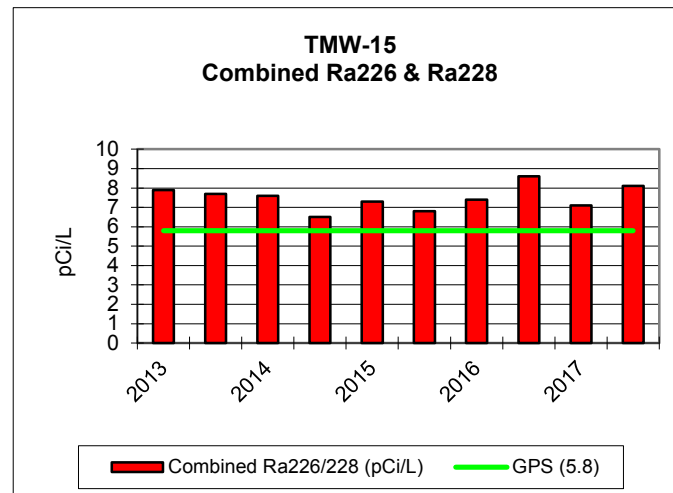
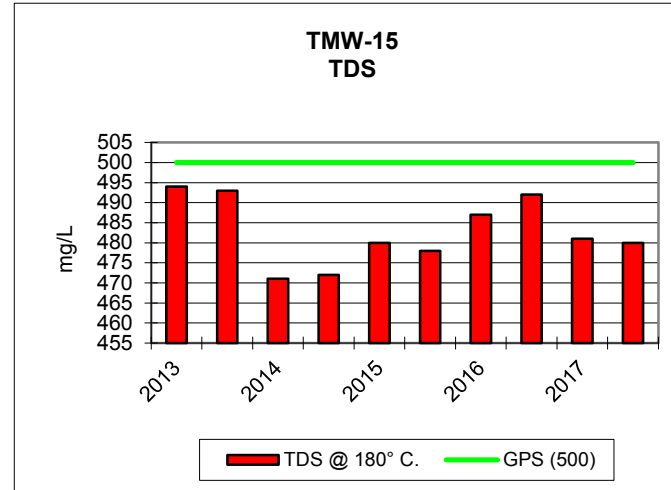
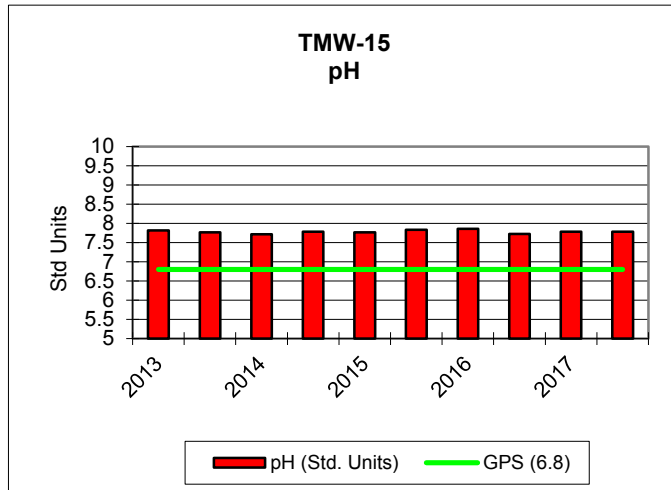
KENNECOTT URANIUM COMPANY																	
TMW-7		2013				2014				2015					2016		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/14/2013	4/2/2013	7/9/2013	10/1/2013	1/18/2014	4/1/2014	7/1/2014	10/15/2014	1/14/2015	4/8/2015	7/14/2015	10/26/2015	1/6/2016	4/19/2016	7/6/2016	10/4/2016
TDS A/C Balance (dec. %)		3.4	-2.67	-0.122	-3.31	-4.75	1.3	0.3	0.58	1.29	5.1	3.66	0.34	1.05	0.13	1.81	0.11
Alk-CaCO3		169	174	143	153	161	159	152	151	154	151	160	156	145	142	158	154
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		206	213	174	187	196	193	186	185	188	184	195	191	177	173	192	188
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		214	192	133	151	151	165	161	155	175	175	181	167	160	162	170	177
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		51	55	27	35	40	43	39	38	46	42	49	45	45	41	46	49
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	0.002	0.003
Cond (umhos/cm)		1270	1350	956	1060	1160	1190	1130	1100	1230	1100	1250	1210	1150	1160	1260	1260
Cond-Field (umhos/cm)		1438	1470	917	1127	1175	1254	1196	1158	1221		1293	1327	1200	1298	1525	1378
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.5	4.4	1.4	2.4	4.4	4	3.1	2.7	19.7	19	13.9	23.5	8.4	15.3	3.1	24.8
Iron (Fe)	GPS (0.6)	7.43	7.53	2.87	3.26	5.39	6.31	6.03	5.99	7.19	7.64	7.66	9.13	7.86	6.51	8.85	9.19
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	0.3	0.1	0.04	0.2	-0.3	0.87	6.1	0.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		28.2	26.4	13.6	17.2	19.8	22	21	19.9	23.8	24.1	21.4	25.4	23.8	22.3	26	29.6
Manganese (Mn)	GPS (0.2)	1.15	1.03	0.49	0.87	0.85	0.83	0.97	0.87	1.02	1.01	1.1	1.23	1.04	0.9	1.31	1.5
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	6.94	7.02	7.16	7.13	7.03	7.07	6.94	7.2	7.12	7.26	7.06	7.03	7.07	7.09	6.98	6.97
pH (Field) (Std. Units)		7.14	6.8	7.1	7.12	6.8	6.9	7	7.08	6.96	6.82	6.55	6.76	6.75	6.8	6.32	6.68
Potassium (K)		4.1	3.7	3.5	3.4	3.2	3.6	3.7	3.4	3.9	3.8	6	4	3.6	3.3	3.8	3.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.2	11	7.4	9.4	11.1	12.4	7.5	11.2	9.4	9.8	10.6	9.6	8.2	8.7	10	8.4
Radium 226 (pCi/L)		2.9	2.8	1.4	2	1.8	3.3	1.7	2.3	3.3	2.5	2.1	2.9	1.5	2.3	2.1	2.2
Radium 228 (pCi/L)		5.3	8.2	6	7.4	9.3	9.1	5.8	8.9	6.1	7.3	8.5	6.7	6.7	6.4	7.9	6.2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		17.9	15.9	16.3	15.6	14.7	15.7	15.9	15.7	16.4	15.7	17.6	15.9	15.9	15.7	15.7	16
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		68.4	65.9	49.5	50.2	54.3	59.8	60.1	56.2	65.8	64.6	54.7	66.6	61	59.2	64.1	70.1
TDS @ 180° C.	GPS (500)	974	1010	662	788	860	885	840	809	859	808	931	929	852	862	933	934
Sulfate (SO4)		492	503	307	380	404	417	404	382	431	389	469	437	422	410	413	476
Temperature (C)		5.9	10	14.8	13.3	8.4	9.8	11.1	10.7	9.6	10.4	11.4	10.4	9.6	11.1	12.6	9.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.1	0.04	0.07	0.05	0.1	-0.007	0.03
Uranium, natural (pCi/L)	GPS (36)	28.9	33.3	8	10.7	20.3	25.3	14.2	18.6	24.9	30.8	17.2	15.4	19.2	37.9	14.4	14.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY					
TMW-7		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/11/2017	4/19/2017	7/31/2017	10/16/2017
TDS A/C Balance (dec. %)		2.93	4.35	1.94	1.57
Alk-CaCO3		154	150	129	153
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		188	183	145	187
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		159	156	126	149
Carbonate (CO3)		<1	<1	6	<1
Chloride (Cl)		45	46	29	44
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.002	0.002	0.002	0.003
Cond (umhos/cm)		1260	1200	1010	1140
Cond-Field (umhos/cm)					
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.6	2.4	3	1.9
Iron (Fe)	GPS (0.6)	9.86	8.25	5.91	9.1
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.03	0.09	1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		25.7	24.3	16.9	23.1
Manganese (Mn)	GPS (0.2)	1.27	1.19	0.86	1.22
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.07	7.05	7.06	7.02
pH (Field) (Std. Units)					
Potassium (K)		3.7	3.6	3	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.2	9.4	6.2	6.8
Radium 226 (pCi/L)		2	1.7	1.7	1.8
Radium 228 (pCi/L)		5.2	7.7	4.5	5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.7	15.6	13.7	16.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		64.5	62.5	48.4	60.8
TDS @ 180° C.	GPS (500)	871	905	716	794
Sulfate (SO4)		451	455	328	391
Temperature (C)					
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	0.01	0.008	0.03
Uranium, natural (pCi/L)	GPS (36)	15.7	23.1	11.1	12.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	<0.01	<0.01	<0.01

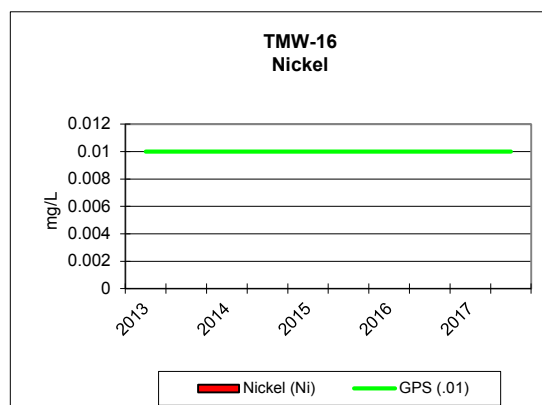
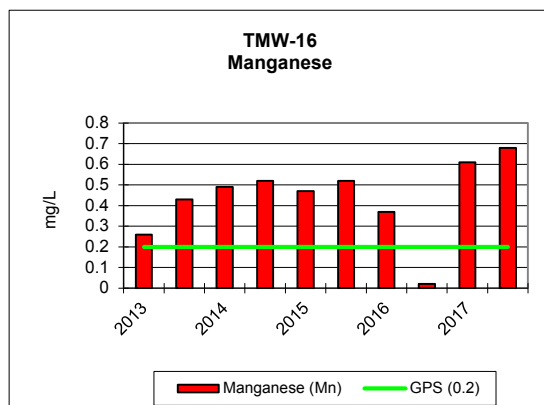
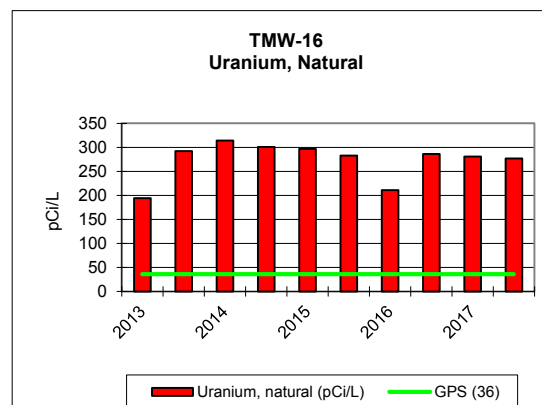
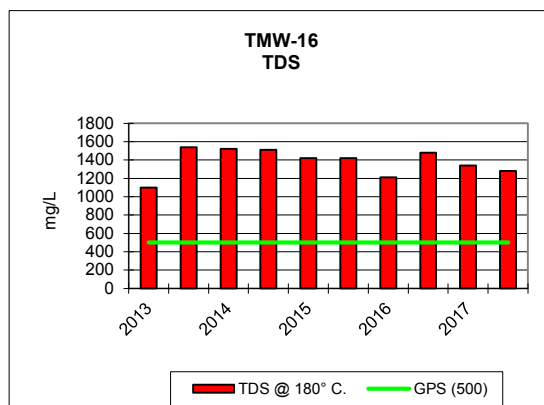
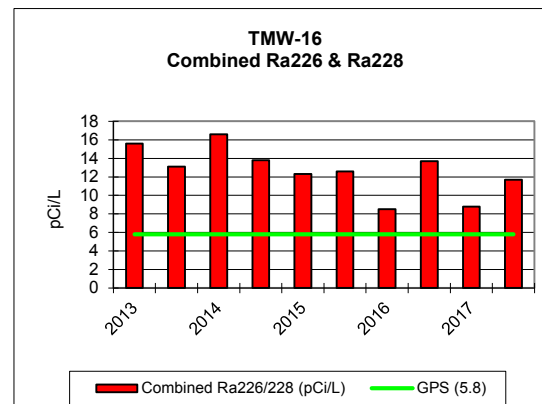
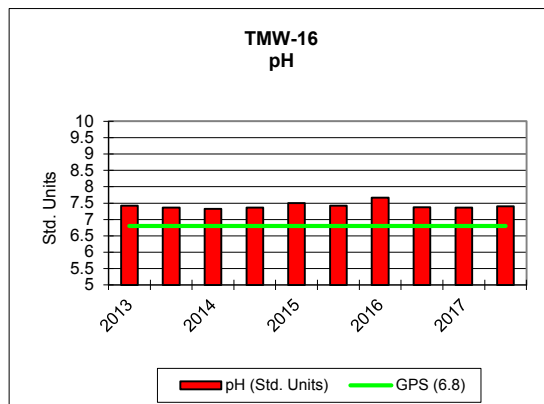
KENNECOTT URANIUM COMPANY											
TMW-8		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/12/2013	7/16/2013	2/17/2014	7/21/2014	1/13/2015	7/14/2015	1/27/2016	7/27/2016	3/13/2017	7/24/2017
TDS A/C Balance (dec. %)		-0.051	-3.09	0.78	1.1	1.06	1.61	4.4	0.09	0.38	0.86
Alk-CaCO3		88	95	87	91	84	88	87	88	80	81
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.002
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		107	116	107	111	103	108	107	107	98	99
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		23	22.3	21.8	24.1	22.5	22.5	20.3	22.3	20.9	20.6
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		3	2	3	3	3	3	3	3	3	2
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		274	278	274	277	275	271	272	273	275	272
Cond-Field (umhos/cm)		306	303	323	287	302	284	279	375	200	294
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	0.5	0.4	0.5	0.3	6.1	4.3	3	1.1	1.5	0.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	1.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.01	-0.8	-0.4	0.4	0.9	1.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		0.9	0.9	0.9	0.8	0.9	0.8	0.9	0.9	0.8	0.8
Manganese (Mn)	GPS (0.2)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.13	8.13	8.05	8.16	8.12	8.11	8.21	8.17	8.23	8.16
pH (Field) (Std. Units)		7.52	8.55	8.1	8.6	8.58	8.13	8.34	6.74	8.78	7
Potassium (K)		1.5	1.5	1.5	1.5	1.5	2.3	1.4	1.6	1.4	1.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	1.73	2.44	2.25	4.44	2.81	2.49	6.18	1.41	2.2	3.3
Radium 226 (pCi/L)		0.63	0.54	0.45	0.54	0.61	0.69	0.48	0.61	0.6	0.7
Radium 228 (pCi/L)		1.1	1.9	1.8	3.9	2.2	1.8	5.7	0.8	1.6	2.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.6	13.7	13.8	14	13.8	14.4	12.6	13.8	13.6	13.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		35.8	35.5	35.8	36.8	36.3	34	32.8	36.8	34.5	34.6
TDS @ 180° C.	GPS (500)	178	179	164	167	176	177	168	184	178	178
Sulfate (SO4)		47	47	46	45	47	46	46	47	47	43
Temperature (C)		10.4	13.4	9.8	11.2	8.5	9.9	9.1	12.7	9.5	11
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.01	0.04	0.03	0.05	0.1	0.07	0.4	-0.02	0.2	0.05
Uranium, natural (pCi/L)	GPS (36)	0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	1.1	0.3	0.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01



KENNECOTT URANIUM COMPANY											
TMW-15		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	7/16/2013	1/21/2014	7/21/2014	1/20/2015	7/20/2015	1/26/2016	7/31/2016	3/14/2017	7/17/2017
TDS A/C Balance (dec. %)		3.62	-1.83	-1.08	2.45	0.53	3.65	2.18	0.08	4.06	1.7
Alk-CaCO3		129	135	129	134	130	143	131	130	123	122
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		158	165	158	163	159	174	159	159	150	149
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		103	98.5	98.4	111	103	97.7	96.9	101	96.8	98.4
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		7	8	15	8	8	8	8	9	9	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		686	703	679	694	683	698	690	698	713	703
Cond-Field (umhos/cm)		730	704	765	645	773	732	696	869	784	769
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	1.9	2.5	2.9	3.2	5.3	7.2	8.8	4.1	5.7	2.2
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.09	0.12	0.09	<0.05	0.09	0.09
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.7	-0.2	-0.4	0.3	1.2	1.6
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8	7.9	7.9	7.7	8	7.6	8.1	8	7.7	8.8
Manganese (Mn)	GPS (0.2)	0.08	0.08	0.08	0.08	0.07	0.08	0.07	0.09	0.08	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.82	7.77	7.72	7.79	7.77	7.84	7.86	7.73	7.79	7.79
pH (Field) (Std. Units)		7.35	7.71	7.8	7.8	7.98	7.34	7.67	7.19	7.92	7.13
Potassium (K)		3.1	2.9	3	3	3.2	2.9	2.9	2.9	2.8	3.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.9	7.7	7.6	6.5	7.3	6.8	7.4	8.6	7.1	8.1
Radium 226 (pCi/L)		1.9	2	1.7	2.1	1.9	2	1.9	2	2	2.4
Radium 228 (pCi/L)		6	5.7	5.9	4.4	5.4	4.8	5.5	6.6	5.1	5.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.2	14.9	15.2	14.9	14.9	14.7	13.7	14.9	14.4	14.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		37.9	35.8	36.5	37.2	38.2	36.3	36.3	37	34.6	39.4
TDS @ 180° C.	GPS (500)	494	493	471	472	480	478	487	492	481	480
Sulfate (SO4)		202	217	209	221	222	222	223	216	244	217
Temperature (C)		8.8	13.6	9.2	11.6	8.5	9.8	8.7	14.9	8.9	12.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.08	0.2	0.2	-0.03	0.1	0.03
Uranium, natural (pCi/L)	GPS (36)	1.4	1.3	2	1.2	1.3	1.3	1.2	1.7	1.2	1.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02

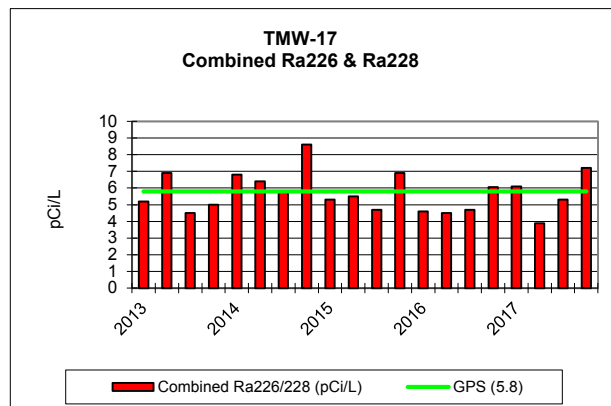
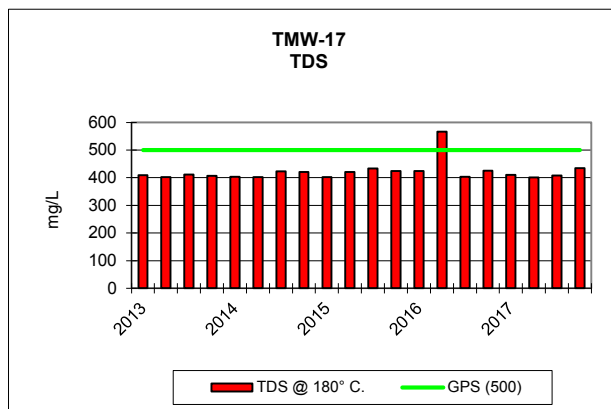
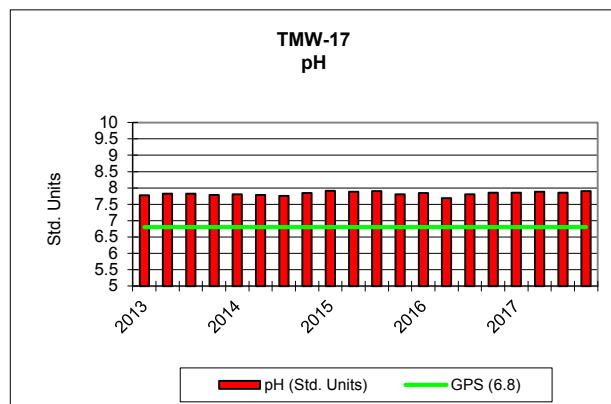


KENNECOTT URANIUM COMPANY											
TMW-16		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	7/16/2013	2/17/2014	7/22/2014	1/20/2015	7/15/2015	1/26/2016	7/27/2016	3/21/2017	7/17/2017
TDS A/C Balance (dec. %)		-0.671	-2	0.42	1.2	0.6	3.97	6.95	1.46	0.67	2.21
Alk-CaCO3		161	187	191	193	185	191	168	187	176	167
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		196	229	233	236	226	233	205	229	215	204
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		209	293	289	318	282	260	197	289	257	237
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		47	76	71	71	68	67	52	65	59	56
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1380	1880	1860	1880	1730	1810	1530	1830	1770	1650
Cond-Field (umhos/cm)		1473	1847	1987	889	1784	1875	1490	204		
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.2	<0.1
Gross Alpha (pCi/L)	GPS (15)	2.6	3.6	3.8	8.4	17.3	10.3	18.7	5.1	4.9	4
Iron (Fe)	GPS (0.6)	<0.05	0.13	0.12	0.15	0.24	0.26	0.28	0.3	0.3	0.24
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3	-0.08	0.9	0.6	0.8	-0.3	-0.1	0.6	0.8	1.8
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		28.5	43.2	43.9	45.1	41.5	40.1	31.2	43.7	40.5	43.5
Manganese (Mn)	GPS (0.2)	0.26	0.43	0.49	0.52	0.47	0.52	0.37	0.02	0.61	0.68
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.42	7.36	7.33	7.36	7.5	7.42	7.67	7.37	7.36	7.4
pH (Field) (Std. Units)		7.02	7.17	7.4	7.4	7.47	6.91	7.37	6.87		
Potassium (K)		4.1	5.1	5.1	5.7	5.2	5	4	5.6	4.9	5.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	15.6	13.1	16.6	13.8	12.3	12.6	8.5	13.7	8.8	11.7
Radium 226 (pCi/L)		3.1	3.1	3.8	3.3	3.7	2.7	2.9	3.5	3.8	2.8
Radium 228 (pCi/L)		12.5	10	12.8	10.5	8.6	9.9	5.6	10.2	5	8.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.8	11.3	11.2	11	11.9	11.5	9.5	11.6	11.9	11.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		65.7	84.4	85.2	91.1	85.8	82.5	67	90	84.6	86.4
TDS @ 180° C.	GPS (500)	1100	1540	1520	1510	1420	1420	1210	1480	1340	1280
Sulfate (SO4)		547	817	779	829	742	765	620	761	722	649
Temperature (C)		7.6	13.6	9.6	14.5	8.3	9.7	7.37	12.7		
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.1	0.1	0.05	-0.002	0.04	0.01
Uranium, natural (pCi/L)	GPS (36)	194	292	314	301	297	283	211	286	281	277
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	Std. Units	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
TDS	mg/L	500	500	500	500	500	500	500	500	500	500
Manganese	mg/L	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Comb. Ra226/Ra228	pCi/L	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Gross Alpha	pCi/L	15	15	15	15	15	15	15	15	15	15
Lead (Pb210)	pCi/L	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Uranium, Natural	pCi/L	36	36	36	36	36	36	36	36	36	36



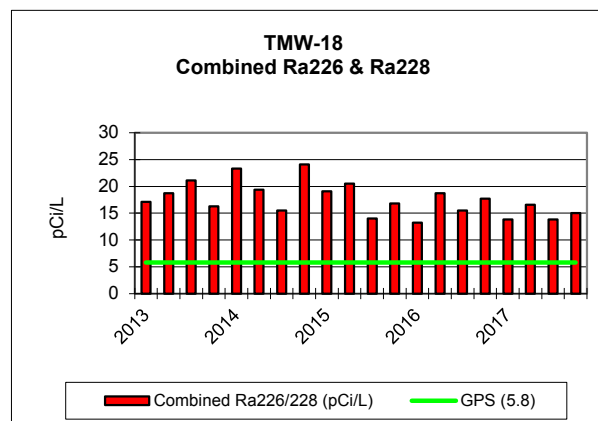
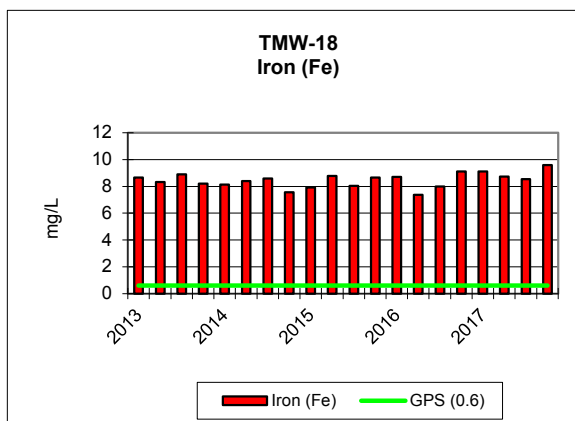
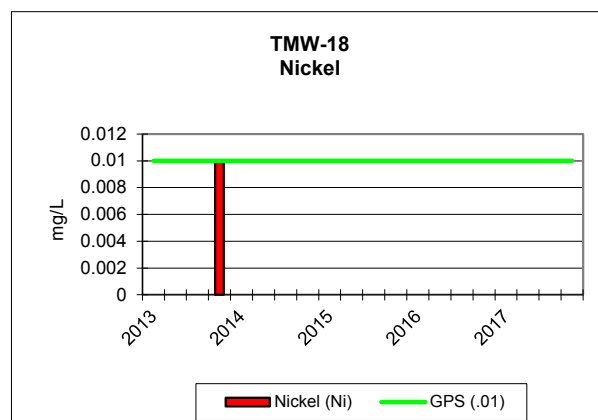
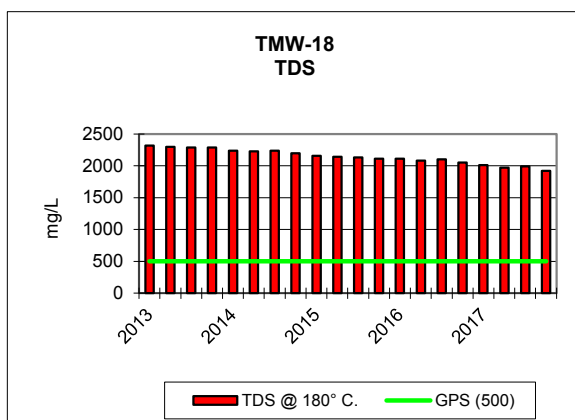
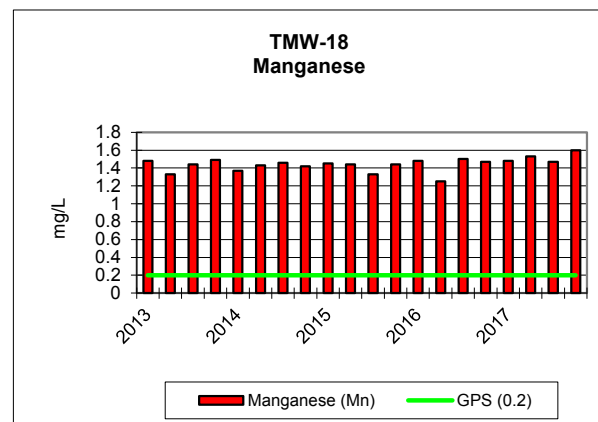
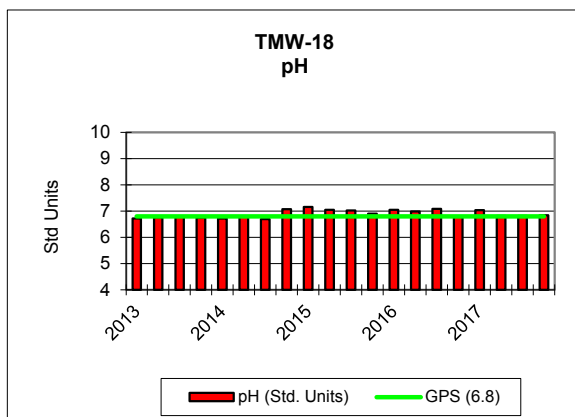
KENNECOTT URANIUM COMPANY																	
TMW-17		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/15/2013	4/2/2013	7/9/2013	10/1/2013	1/18/2014	4/1/2014	7/1/2014	10/14/2014	1/14/2015	4/8/2015	7/13/2015	11/2/2015	1/6/2016	4/18/2016	7/7/2016	10/3/2016
TDS A/C Balance (dec. %)		5.04	-2.54	0.772	-1.84	-1.51	1.87	0.91	1.25	1.34	0.31	0.93	0.21	0.94	9.39	1.73	2.82
Alk-CaCO3		119	118	119	120	119	133	120	121	120	120	123	124	116	119	123	119
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		146	144	145	146	145	162	146	148	147	146	151	152	141	146	150	146
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		95.4	79.6	83.6	80.3	78.6	81.4	85	84.4	83.3	84.4	87.7	84.7	86.1	96.5	87.4	81.8
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		8	8	8	7	8	8	8	9	9	8	8	8	9	17	10	9
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		588	602	610	585	593	600	607	618	624	595	606	607	610	796	568	615
Cond-Field (umhos/cm)		663	672	707	656	674	538	665	646	652		643	661	609	672	811	666
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	ND	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	1.3	1.9	0.7	1.5	2.2	1.7	1.5	2.8	6.3	8.4	4.8	4.5	4.4	5.9	2	3.1
Iron (Fe)	GPS (0.6)	<0.05	0.09	0.06	<0.05	<0.05	0.09	<0.05	0.07	0.05	0.06	0.06	0.34	<0.05	0.06	0.08	0.3
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.6	0.3	0.6	0.4	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.5	0.29	1	0.2
Magnesium (Mg)		5.6	4.9	5.1	4.6	4.8	5	5.1	5.1	5.3	5.1	5.1	5.1	5.7	5.6	5.2	5
Manganese (Mn)	GPS (0.2)	0.05	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.05	0.04	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.78	7.83	7.83	7.79	7.81	7.79	7.76	7.85	7.91	7.88	7.9	7.81	7.85	7.69	7.81	7.86
pH (Field) (Std. Units)		7.84	7.6	8.1	7.93	7.9	8.1	7.9	7.98	8.57	7.62	7.63	7.6	7.66	7.6	6.89	7.78
Potassium (K)		2.9	2.7	3.1	2.8	2.6	2.7	3	2.8	2.9	3.1	2.9	3.1	3	3.1	3	2.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.2	6.9	4.5	5	6.8	6.4	5.8	8.6	5.3	5.5	4.7	6.9	4.59	4.5	4.7	6.05
Radium 226 (pCi/L)		1.3	1.2	1.1	1.1	1	1.5	1.1	2.5	2	1.6	1.1	1.3	0.89	1.2	1.1	0.95
Radium 228 (pCi/L)		3.9	5.7	3.4	3.9	5.8	4.9	4.7	6.1	3.3	3.9	3.6	5.6	3.7	3.3	3.6	5.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		19.1	15.4	15.7	15	15.1	15.3	15.4	15.2	15.4	15.3	15.6	15.3	15.7	15.7	15.6	13.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		37.2	35.6	38.5	34.6	35	37.3	37.9	36.8	37.6	38	37.4	38	38.3	38	37.7	36.7
TDS @ 180° C.	GPS (500)	409	402	411	407	403	402	423	421	402	421	433	424	424	567	403	425
Sulfate (SO4)		175	178	175	172	168	169	175	181	182	177	176	175	184	268	171	187
Temperature (C)		4.6	8.9	12.8	12.1	7.3	7.9	12.6	11	8.2	9.5	11.2	10.8	8.1	9.6	11.7	10.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.2	0.1	0.08	0.1	0.08	-0.01	0.1
Uranium, natural (pCi/L)	GPS (36)	3.7	3.7	4	4.7	4.1	26.4	3.9	5.8	5.8	4.3	4	4.1	3.4	3.9	4	3.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY					
TMW-17		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/11/2017	4/19/2017	7/31/2017	10/24/2017
TDS A/C Balance (dec. %)		2.25	0.18	0.69	1.36
Alk-CaCO3		121	117	110	122
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		147	142	126	149
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		81.6	82.3	80.6	84.1
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		9	9	8	9
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		630	609	602	615
Cond-Field (umhos/cm)		660	683	685	685
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.5	1.3	2.3	1.5
Iron (Fe)	GPS (0.6)	0.1	0.08	0.08	0.07
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.06	-0.8	1.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		5.1	5.1	4.7	5.4
Manganese (Mn)	GPS (0.2)	0.05	0.05	0.04	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.86	7.88	7.86	7.9
pH (Field) (Std. Units)		7.08	8.35	7.61	7.91
Potassium (K)		2.9	2.9	2.7	2.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.1	3.88	5.3	7.2
Radium 226 (pCi/L)		1.3	0.88	1.4	1.6
Radium 228 (pCi/L)		4.8	3	3.9	5.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.3	16.1	14	16.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		38.6	37.6	34.5	38.4
TDS @ 180° C.	GPS (500)	410	401	408	435
Sulfate (SO4)		185	176	166	169
Temperature (C)		7.9	10.3	14.2	5.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	0.04	0.004	0.04
Uranium, natural (pCi/L)	GPS (36)	3.6	4.6	4	3.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01

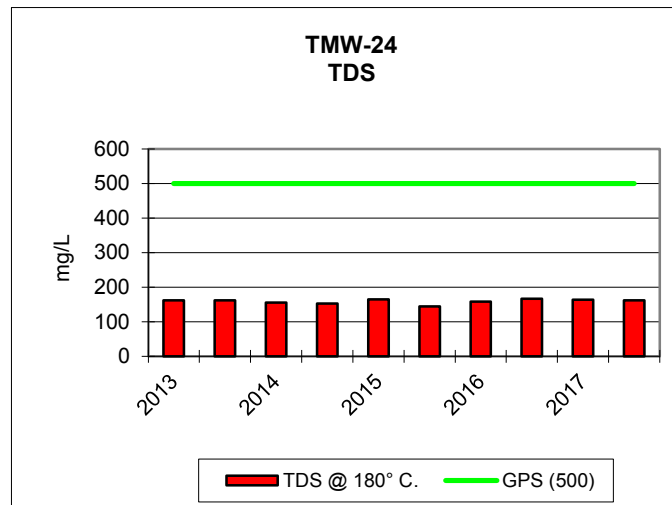
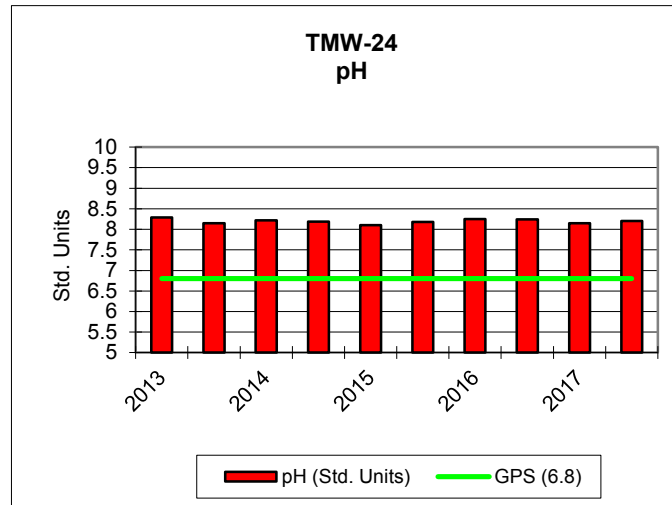


KENNECOTT URANIUM COMPANY																	
TMW-18		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/14/2013	4/2/2013	7/9/2013	10/1/2013	1/18/2014	4/1/2014	7/1/2014	10/15/2014	1/14/2015	4/8/2015	7/15/2015	10/26/2015	1/6/2016	4/19/2016	7/6/2016	10/4/2016
TDS A/C Balance (dec. %)		1.06	-3.97	-0.693	-3.5	-3.12	1.89	1.18	1.63	0.75	2.34	2.43	0.95	0.22	1.45	0.73	3.74
Alk-CaCO3		416	413	407	413	404	396	390	397	375	388		377	364	344	366	359
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		508	504	496	504	493	483	476	484	457	473	468	460	444	420	447	439
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		538	504	511	519	480	509	521	494	486	480	458	479	469	415	444	432
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		83	91	84	88	86	88	84	81	89	94	87	85	84	82	82	86
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	0.002	0.002	0.003	0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Cond (umhos/cm)		2580	2600	2620	2550	2560	2640	2550	2510	2560	2440	2390	2460	2410	2400	2450	2460
Cond-Field (umhos/cm)		2820	2820	2820	2730	1829	2130	2660	2640	259		2640	2680	2560	2690	2860	2700
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	2.5	3	2.4	4.3	5.7	4.8	4.4	4.4	29.2	38.3	4.6	41.5	18.1	23	7.3	32.1
Iron (Fe)	GPS (0.6)	8.66	8.32	8.9	8.21	8.13	8.4	8.58	7.57	7.92	8.78	8.04	8.66	8.7	7.36	7.99	9.12
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3	0.2	0.2	0.5	<1	0.02	0.1	0.5	0.7	0.4	0.5	0.5	0.7	0.6	2.5	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		46.6	43.7	46.3	37.4	42.5	38.4	44.2	44	44.4	43.7	43	43.4	45.2	44.2	43	43.5
Manganese (Mn)	GPS (0.2)	1.48	1.33	1.44	1.49	1.37	1.43	1.46	1.42	1.45	1.44	1.33	1.44	1.48	1.25	1.5	1.47
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	6.72	6.77	6.79	6.75	6.72	6.8	6.69	7.07	7.16	7.05	7.02	6.9	7.05	6.98	7.08	6.79
pH (Field) (Std. Units)		7.19	6.5	6.5	6.59	6.6	6.9	6.9	7.25	7.24	6.79	6.57	6.74	6.8	6.63	6.32	6.47
Potassium (K)		6.8	6.2	7	6.4	5.9	6.2	6.5	6	6.6	6.4	6.5	6.6	6.3	7.4	6.3	6.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.1	18.7	21.1	16.3	23.3	19.4	15.5	24.1	19.1	20.5	14	16.8	13.2	18.7	15.5	17.7
Radium 226 (pCi/L)		3.4	2.9	2.3	2.6	2.5	2.9	2.5	3.1	4.8	4.1	1.8	4.6	1.8	3.7	2.7	1.6
Radium 228 (pCi/L)		13.7	15.8	18.8	13.7	20.8	16.5	13	21	14.3	16.4	12.2	12.2	11.4	15	12.8	16.1
Selenium (Se)	GPS (.01)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		23.7	22	23	21.8	21.6	24.4	21.9	21.6	22.1	21.5	21.5	21.4	22.1	19.2	21	21.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		103	97.6	105	84.1	94.8	83.7	99.7	97.1	101	98.2	97.9	99.4	97.8	95.7	93.2	96.5
TDS @ 180° C.	GPS (500)	2320	2300	2290	2290	2240	2230	2240	2200	2160	2140	2130	2110	2110	2080	2100	2050
Sulfate (SO4)		1150	1200	1150	1180	1120	1110	1110	1030	1100	1110	1070	1030	1050	978	954	1060
Temperature (C)		7.6	9.7	13.7	12.6	6.5	9.5	10.7	10	7.8	10	12.1	9.8	8.5	9.8	11	9.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.07	0.07	0.1	0.04	0.005	0.08	0.02	0.01
Uranium, natural (pCi/L)	GPS (36)	0.8	0.9	0.8	0.9	0.9	0.8	0.8	1.2	0.8	0.7	0.7	0.9	0.7	0.8	0.8	4.2
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY					
TMW-18		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/11/2017	4/19/2017	7/31/2017	10/16/2017
TDS A/C Balance (dec. %)		2.15	3.15	4.65	0.59
Alk-CaCO3		359	345	283	362
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		438	421	346	442
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		464	416	450	437
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		85	82	80	80
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2530	1950	2380	2440
Cond-Field (umhos/cm)		2650	2620	2630	2550
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	7	2.6	6	3.7
Iron (Fe)	GPS (0.6)	9.1	8.72	8.53	9.58
Lead (Pb210) (pCi/L)	GPS (8.9)	0.4	0.2	-0.1	1.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		42.7	41.3	42.4	43.3
Manganese (Mn)	GPS (0.2)	1.48	1.53	1.47	1.6
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.04	6.81	6.81	6.84
pH (Field) (Std. Units)		6.25	6.46	6.2	6.6
Potassium (K)		6.2	6.1	5.9	6.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	13.8	16.6	13.8	15
Radium 226 (pCi/L)		2.5	2.2	2.1	2.7
Radium 228 (pCi/L)		11.3	14.4	11.7	12.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		21	21.5	20.1	20.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		95.8	94.4	93.6	96.5
TDS @ 180° C.	GPS (500)	2010	1970	1990	1920
Sulfate (SO4)		1090	1010	940	955
Temperature (C)		10	10.8	13.1	11
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.2	-0.02	0.04	0.03
Uranium, natural (pCi/L)	GPS (36)	0.7	0.7	0.9	0.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.02	0.01

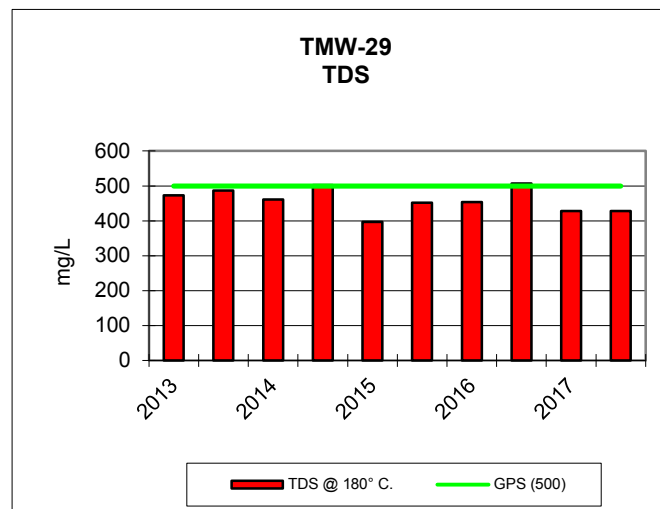
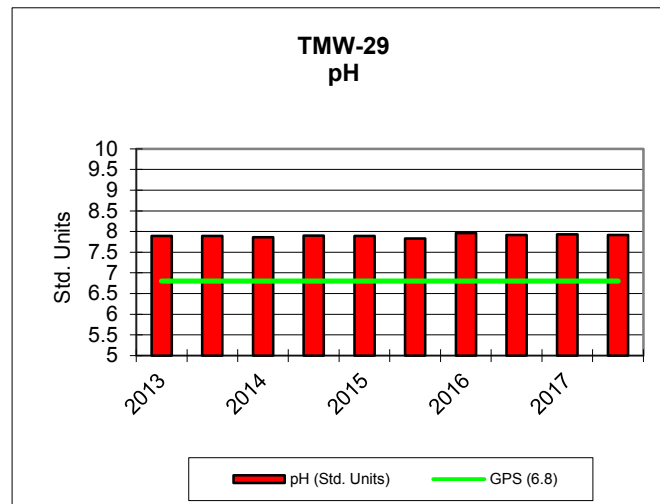


KENNECOTT URANIUM COMPANY											
TMW-24		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/18/2013	7/16/2013	2/11/2014	8/12/2014	2/17/2015	8/18/2015	2/22/2016	8/29/2016	3/21/2017	8/4/2017
TDS A/C Balance (dec. %)		-1.35	-2.15	2.23	0.17	4.62	0.21	3.64	2.33	0.83	4.39
Alk-CaCO3		93	96	92	91	101	88	91	93	90	82
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.001	0.001	0.002	0.001	0.001	<0.001	0.001	0.001
Barium (Ba)		<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		113	117	112	111	124	107	111	113	110	100
Boron (B)		<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		20.4	21.6	21.2	21.2	21.7	21.5	20.4	19.8	22	22
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		2	2	2	2	2	2	2	2	2	2
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		251	253	250	250	249	250	249	256	255	264
Cond-Field (umhos/cm)		297	262	272	262	280	256	273	292	269	266
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2
Gross Alpha (pCi/L)	GPS (15)	1.1	0.6	1.5	0.4	0.5	3.5	4.4	1.7	1.5	1.2
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	-0.5	0.04	0.7	0.6	1.3	0.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		1.2	1.1	1	1	0.9	1	0.9	1.1	1	0.9
Manganese (Mn)	GPS (0.2)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.29	8.15	8.22	8.19	8.1	8.18	8.25	8.24	8.15	8.2
pH (Field) (Std. Units)		7	8.56	6.4	8.7	8.23	8.39	8.26	8.14	8.62	10.41
Potassium (K)		1.6	1.4	1.6	1.5	1.6	1.5	1.4	2	1.5	1.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.48	1.6	2.58	2.63	1.9	2.6	2.42	2.73	2.5	2
Radium 226 (pCi/L)		0.98	0.5	0.58	0.83	1.1	1	0.62	0.93	1.2	0.9
Radium 228 (pCi/L)		2.5	1.1	2	1.8	0.8	1.6	1.8	1.8	1.3	1.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.3	13.8	13.4	13.9	13.8	14	13	16.6	14.6	14.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		32.1	31.6	30.4	32.2	31.4	31	29.7	31.9	32.6	32.1
TDS @ 180° C.	GPS (500)	162	162	156	153	165	145	159	167	164	162
Sulfate (SO4)		33	33	34	34	34	34	34	34	35	33
Temperature (C)		10.1	13.6	9.5	10.3	10.7	9.6	10.1	13.3	10.5	10.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.2	<0.2	<0.2	<0.2	0.009	0.3	0.05	-0.002	0.05	0.04
Uranium, natural (pCi/L)	GPS (36)	1.8	0.4	0.5	0.8	0.2	0.4	0.4	0.6	2.5	0.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.17	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



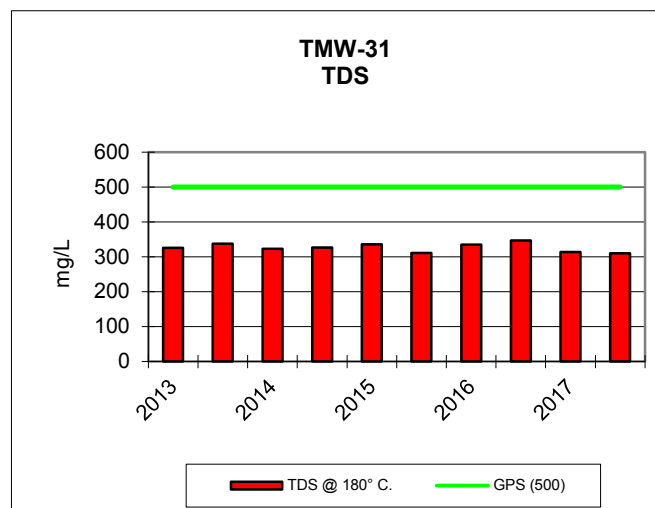
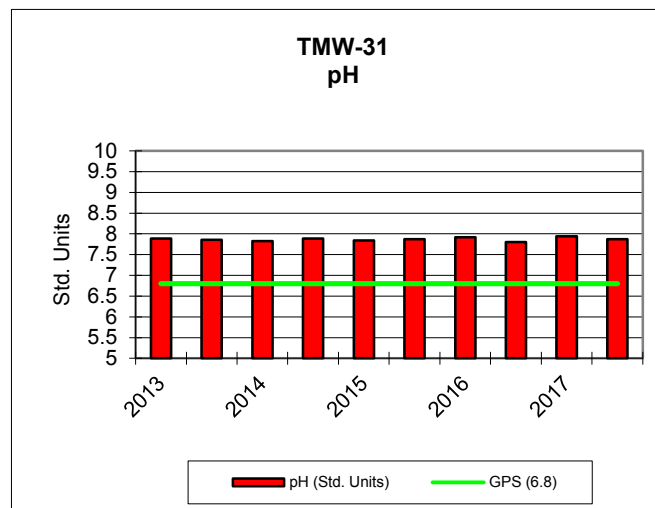
TMW-24

KENNECOTT URANIUM COMPANY											
TMW-29		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/18/2013	7/16/2013	2/11/2014	8/25/2014	2/17/2015	8/17/2015	2/22/2016	8/10/2016	3/20/2017	8/4/2017
TDS A/C Balance (dec. %)		1.78	-1.65	0.33	0	0.66	0.82	3.89	2.11	1.64	4.94
Alk-CaCO3		117	121	118	122	119	114	123	117	111	107
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		143	148	144	149	146	139	150	143	136	130
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		104	101	95.5	109	80.5	97.4	90	105	91.5	95.4
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		10	13	10	13	8	11	10	11	9	9
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		680	706	671	720	573	686	652	707	641	677
Cond-Field (umhos/cm)		735	717	701	780	608	704	757	808	1136	1160
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	1.3	1.6	2.1	1.5	2.5	8.1	3.9	1.6	2.2	1
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	-0.1	-0.2	-0.2	0.02	0.5	-0.4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		6.8	6.6	6.2	7	5.1	6.3	5.9	6.9	5.9	6.2
Manganese (Mn)	GPS (0.2)	0.09	0.07	0.07	0.07	0.05	0.06	0.05	0.06	0.05	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.89	7.89	7.86	7.9	7.89	7.83	7.96	7.92	7.93	7.92
pH (Field) (Std. Units)		7.42	7.89	6.7	8.1	7.89	7.83	7.8	7.56	7.68	8.03
Potassium (K)		3	2.9	3	3.2	2.9	3.1	3	3.1	3	3
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.7	4	4.3	3.4	3.6	4.4	4.2	7	1.8	2.6
Radium 226 (pCi/L)		1.4	1.3	1.4	1	1.6	1.6	1.2	1.6	1.3	1.3
Radium 228 (pCi/L)		2.3	2.7	2.9	2.4	2	2.8	3	5.4	0.5	1.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.6	14.4	14.3	14.4	14.8	14.6	14	14.5	15.4	15.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		37.8	36.8	36.4	39	36.1	37.2	35	39.1	37.7	38.5
TDS @ 180° C.	GPS (500)	473	487	461	502	397	452	454	507	428	428
Sulfate (SO4)		219	226	208	239	170	210	209	221	195	190
Temperature (C)		8.5	14.5	8.8	9.9	8.6	9.6	8.5	14.5	9.5	11.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L-)		0.009	0.05	0.1	0.06	0.008	0.3	-0.008	-0.02	0.2	0.03
Uranium, natural (pCi/L)	GPS (36)	7.1	6.9	6.1	7	5.1	5	4.9	6.3	4.8	4.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



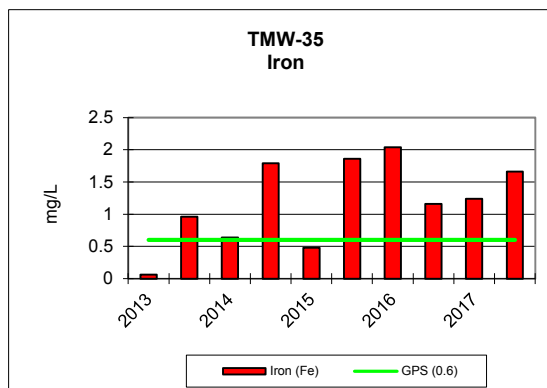
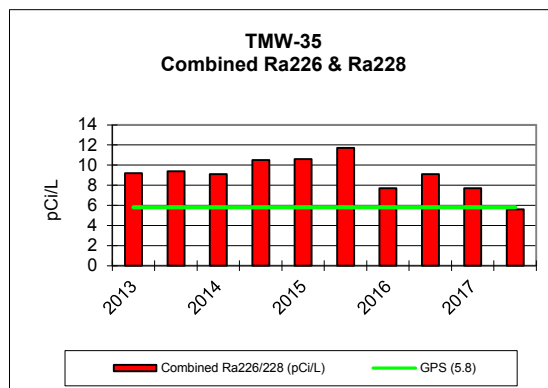
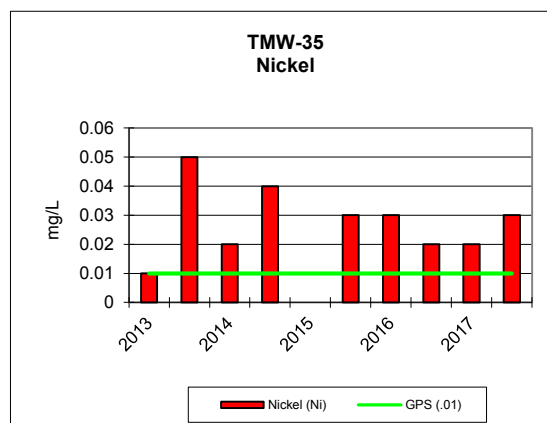
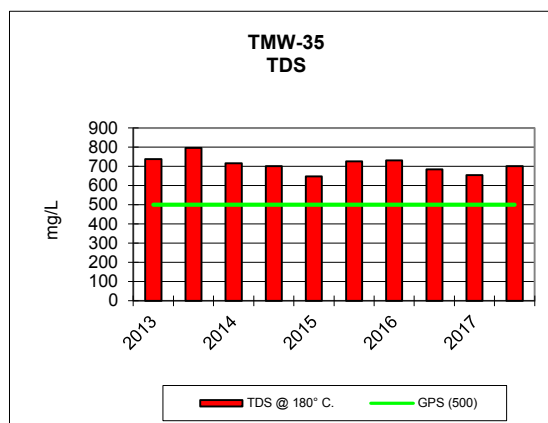
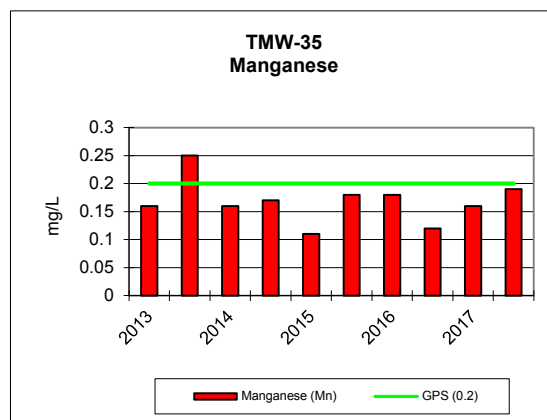
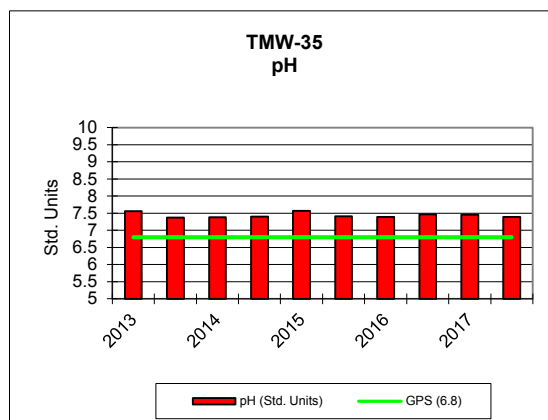
TMW-29

KENNECOTT URANIUM COMPANY											
TMW-31		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/18/2013	7/16/2013	2/11/2014	8/25/2014	2/17/2015	8/17/2015	2/22/2016	8/10/2016	3/20/2017	8/4/2017
TDS A/C Balance (dec. %)		0.382	-1.99	0.2	0.12	0.19	0.54	4.94	0.97	2.31	4.27
Alk-CaCO3		116	121	117	117	117	113	121	118	110	107
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		142	148	142	142	143	137	148	144	134	131
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		69	67.1	66.3	67.4	67.7	66.6	63.7	68.2	68.7	67.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	8	6	6	6	6	6	7	6	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		492	503	492	491	483	499	496	500	489	520
Cond-Field (umhos/cm)		530	513	503	535	534	514	642	642	545	536
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2	1.6	1.2	1.1	4.4	4.9	4.4	2.3	2.6	1
Iron (Fe)	GPS (0.6)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead (Pb210) (pCi/L)	GPS (8.9)	0.1	0	0.2	0.07	-0.6	-0.05	0.1	0.02	0.6	-0.5
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		5.1	5.1	5	5	4.9	5	4.8	5.1	5	5.1
Manganese (Mn)	GPS (0.2)	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.05	0.07	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.89	7.86	7.83	7.89	7.84	7.87	7.92	7.8	7.94	7.87
pH (Field) (Std. Units)		7.5	7.81	8	8.1	7.81	7.7	7.73	7.64	8.31	8.2
Potassium (K)		2.6	2.4	2.7	2.5	2.6	2.6	2.3	2.5	2.7	2.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.7	4	4.4	5	5	4.2	3.57	3.5	4	1.7
Radium 226 (pCi/L)		1.2	1.1	1.3	1.2	1.4	1.3	0.97	1.1	1.8	0.9
Radium 228 (pCi/L)		2.5	2.9	3.1	3.8	3.6	2.9	2.6	2.4	2.2	0.8
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15	14.6	14.8	14.7	14.8	14.8	13.8	13.7	14.8	15.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		29.9	28.7	29.2	29.6	30.3	29.5	28	31.2	29.3	30.2
TDS @ 180° C.	GPS (500)	326	338	323	327	336	311	335	347	314	310
Sulfate (SO4)		129	127	123	126	128	125	132	123	124	118
Temperature (C)		7.5	13.6	8.8	10.4	8.6	9.8	8.4	14.7	9.6	10
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	-0.02	0.3	0.09	0.0002	0.1	0.06
Uranium, natural (pCi/L)	GPS (36)	1.5	1.4	1.1	1.3	1.3	1.1	1.2	1.4	1.4	1.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12

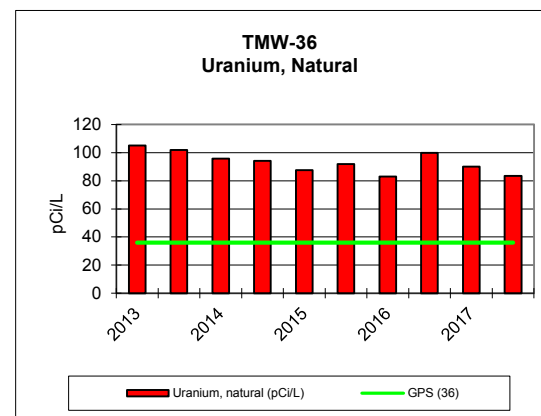
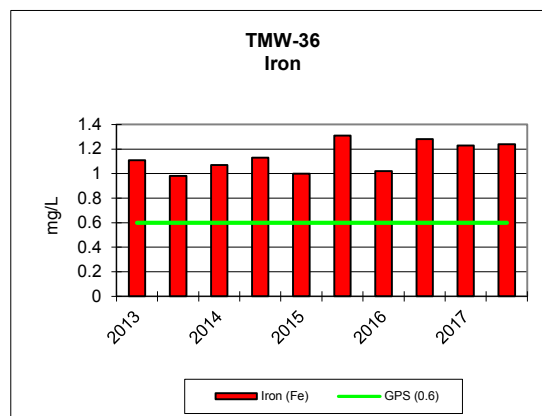
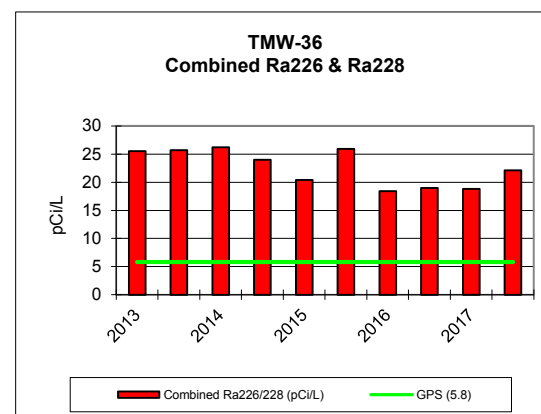
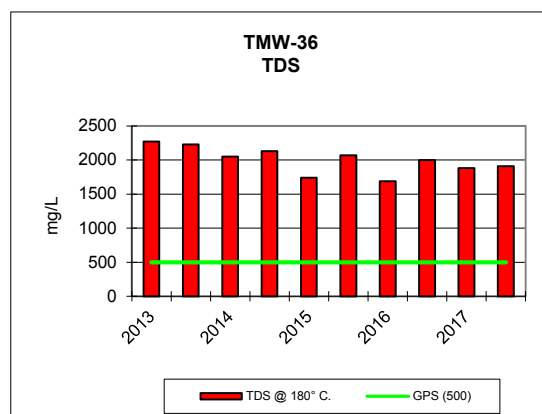
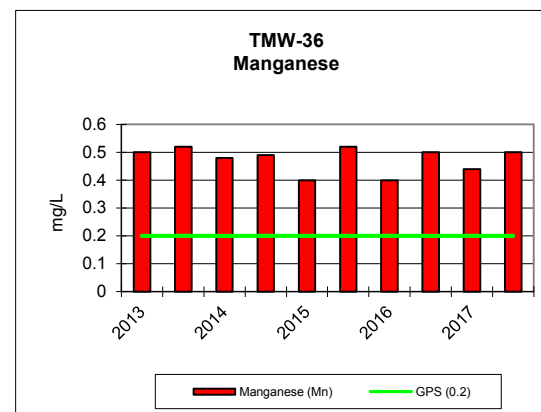
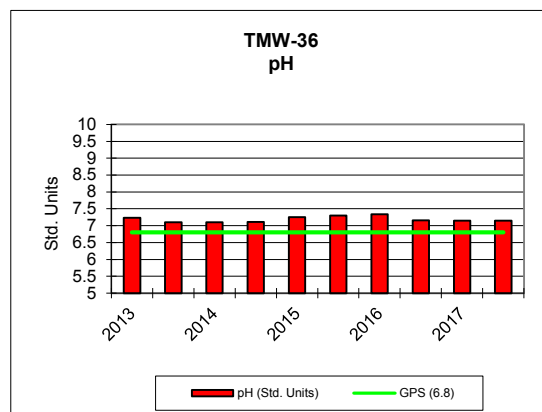


TMW-31

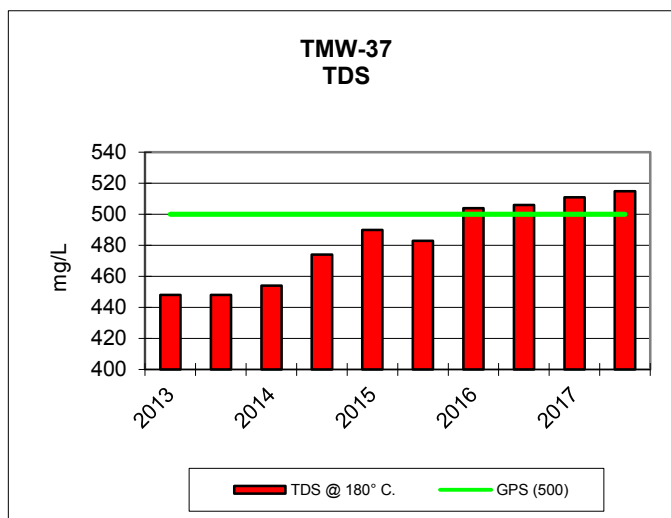
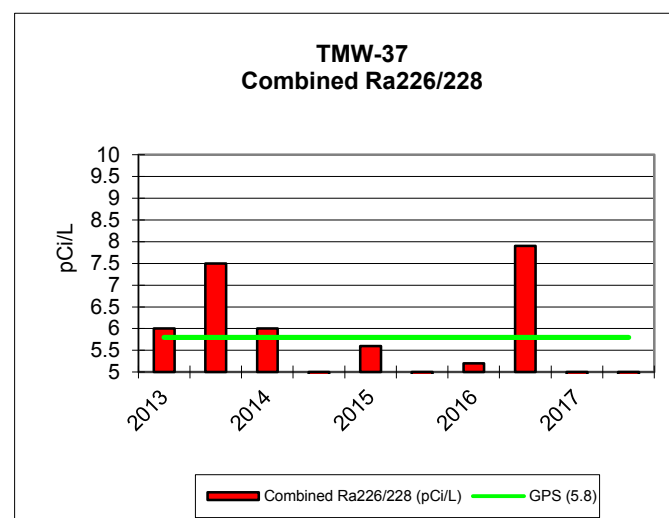
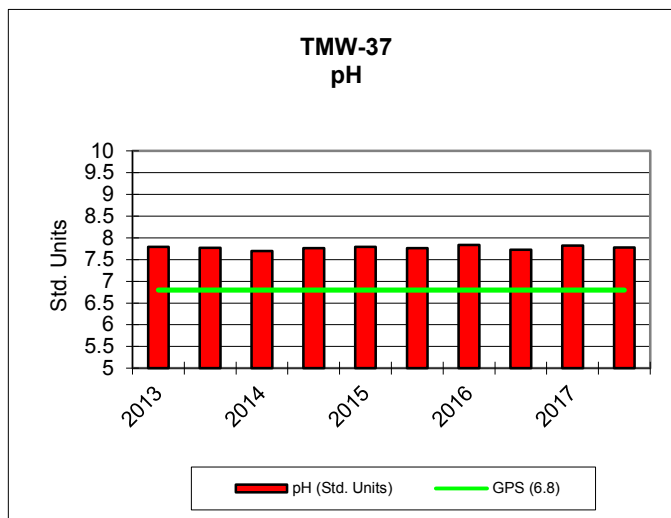
KENNECOTT URANIUM COMPANY											
TMW-35		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/18/2013	7/23/2013	2/10/2014	8/27/2014	2/17/2015	8/18/2015	2/22/2016	8/17/2016	3/20/2017	8/4/2017
TDS A/C Balance (dec. %)		1.09	-0.523	1.06	1.03	1.1	1.25	3.79	0.25	1.57	3.89
Alk-CaCO3		143	142	0.91	0.98	145	132	140	140	130	125
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		174	174	173	171	177	161	170	171	159	153
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		158	167	149	145	138	152	143	145	141	153
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	7	7	7	7	7	7	7	7	7
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.006	0.023	0.01	0.013	0.002	0.014	0.013	0.007	0.01	0.012
Cond (umhos/cm)		971	1040	958	946	868	1000	970	952	931	1020
Cond-Field (umhos/cm)		1628	1058	1087	1131	917	1023	1102	1034	1271	1363
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2.7	3.7	2.8	2.6	4	13.2	3.9	7.1	3.5	2.3
Iron (Fe)	GPS (0.6)	0.06	0.96	0.64	1.79	0.48	1.86	2.04	1.16	1.24	1.66
Lead (Pb210) (pCi/L)	GPS (8.9)	0.5	-0.2	0.09	0.4	0.05	-0.2	-0.08	0.8	0.3	-0.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		19.7	23.2	19	18.9	15.6	20.1	19.6	18.9	18.4	20.8
Manganese (Mn)	GPS (0.2)	0.16	0.25	0.16	0.17	0.11	0.18	0.18	0.12	0.16	0.19
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.01	0.05	0.02	0.04	<0.01	0.03	0.03	0.02	0.02	0.03
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.56	7.37	7.38	7.4	7.57	7.41	7.39	7.47	7.46	7.39
pH (Field) (Std. Units)		7.36	7.07	7.5	7.3	7.46	7.1	7.23	6.96	6.58	6.53
Potassium (K)		3.4	3.7	3.6	3.4	3.4	3.5	3.2	3.5	3.5	3.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	9.2	9.4	9.1	10.5	10.6	11.7	7.7	9.1	7.7	5.6
Radium 226 (pCi/L)		1.9	2.2	2.2	2	2.4	2	1.2	1.8	1.7	1.3
Radium 228 (pCi/L)		7.3	7.2	6.9	8.5	8.2	9.7	6.5	7.3	6	4.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.5	15.5	15.3	15.1	14.7	15.1	14.5	11.5	15.4	15.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		35.6	36.9	36.2	36.5	36.4	36.6	34.6	36.9	37	38.7
TDS @ 180° C.	GPS (500)	738	797	717	702	649	727	731	685	655	702
Sulfate (SO4)		377	433	358	370	313	401	391	361	341	364
Temperature (C)		7.2	13.6	9.2	10.3	8.6	9.3	8.5	11	9.2	10.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	-0.01	0.3	0.2	-0.01	0.05	0.05
Uranium, natural (pCi/L)	GPS (36)	5.4	5.8	5.2	5.9	5.1	5.6	4.8	4.6	5.5	5.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.02	0.02	0.02	<0.01	0.02	0.01	0.02	0.01	0.02



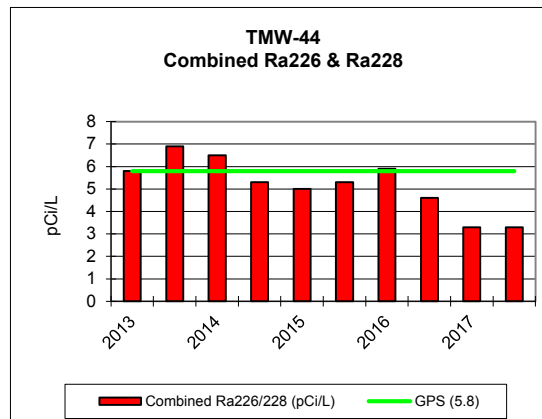
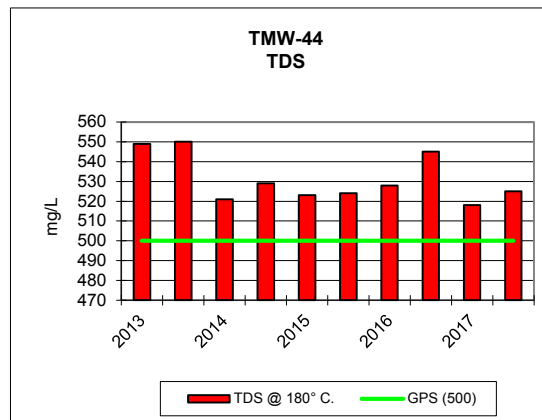
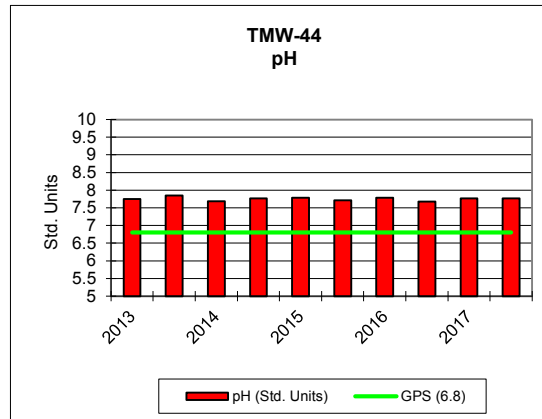
KENNECOTT URANIUM COMPANY											
TMW-36		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	7/23/2013	2/10/2014	8/25/2014	2/11/2015	8/18/2015	2/23/2016	8/17/2016	3/15/2017	8/4/2017
TDS A/C Balance (dec. %)		0.323	1.22	0.55	4.33	0.96	0.51	5.12	0.32	2.49	2.82
Alk-CaCO3		207	205	199	221	197	194	171	201	189	182
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	0.002	1.002	2.002	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		253	250	242	269	240	236	209	245	230	223
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		487	484	445	472	391	454	430	424	424	414
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		12	12	13	14	13	13	12	14	14	13
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.003	0.004	0.003	0.004	0.002	0.004	0.003	0.004	0.003	0.003
Cond (umhos/cm)		2370	2360	2220	2460	1980	2360	2150	2420	2180	2240
Cond-Field (umhos/cm)		2590	2420	2390	2440	1997	2360	1900	2240	2340	2170
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	1.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	7	8.5	7.7	5.4	27.7	30.7	12.1	14.7	7.7	4.8
Iron (Fe)	GPS (0.6)	1.11	0.98	1.07	1.13	1	1.31	1.02	1.28	1.23	1.24
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.4	0.4	-0.3	0.8	0.3	0.5	0.9	-0.03
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		69.7	69.5	63.1	62.1	53.2	63.4	49.4	59.4	57.6	58.1
Manganese (Mn)	GPS (0.2)	0.5	0.52	0.48	0.49	0.4	0.52	0.4	0.5	0.44	0.5
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.01	1.01	2.01	0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.23	7.1	7.1	7.11	7.25	7.3	7.34	7.16	7.15	7.15
pH (Field) (Std. Units)		7	6.86	7.1	6.9	7.06	6.69	6.88	6.69	6.64	6.47
Potassium (K)		6.1	6.6	6.3	5.9	5.4	6.2	5	6	6	5.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	25.5	25.7	26.2	24	20.4	25.9	18.4	19	18.8	22.1
Radium 226 (pCi/L)		6.2	5.8	5.7	5	4.5	5.8	3.9	4.6	4.7	3.7
Radium 228 (pCi/L)		19.3	19.9	20.5	19	15.9	20.1	14.5	14.4	14.1	18.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		10.4	10.7	10.3	9.8	10	10.5	10.1	10.1	10.3	10.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		47.1	49.6	46	45.6	41.6	46.8	40.4	47.2	45.9	43.5
TDS @ 180° C.	GPS (500)	2270	2230	2050	2130	1740	2070	1690	2000	1880	1910
Sulfate (SO4)		1320	1300	1200	1380	1010	1250	1010	1170	1210	1050
Temperature (C)		8.8	13.5	9.7	9.7	9	9.1	9.3	12.2	9.5	13.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.09	0.2	0.1	-0.01	0.3	0.007
Uranium, natural (pCi/L)	GPS (36)	105	102	95.7	94.2	87.6	91.9	83	99.8	90.1	83.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



KENNECOTT URANIUM COMPANY											
TMW-37		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	7/22/2013	2/10/2014	8/25/2014	2/11/2015	8/18/2015	2/23/2016	8/17/2016	3/15/2017	8/14/2017
TDS A/C Balance (dec. %)		1.41	0.65	0.86	0.59	1.48	1.26	3.12	1.29	2.52	2.92
Alk-CaCO3		133	128	128	127	129	123	119	120	120	127
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.019	0.023	0.02	0.019	0.018	0.015	0.014	0.015	0.021	0.014
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		162	157	156	155	157	150	146	147	146	154
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		97.3	95.2	94.4	99.6	104	103	100	107	110	111
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	6	7	7	6	6	7	7	7	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cond (umhos/cm)		652	663	667	681	704	717	719	749	758	762
Cond-Field (umhos/cm)		710	715	719	734	737	742	827	786	784	823
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2		0.2	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.5	1.8	2.5	1.5	9.4	8.2	5.2	4	3.9	1.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	-0.6	0.3	-0.2	0.4	0.8	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8	7.8	7.7	8	8.4	8.3	7.8	8.5	8.5	8.8
Manganese (Mn)	GPS (0.2)	0.07	0.06	0.07	0.06	0.06	0.05	0.05	0.05	0.06	0.07
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.79	7.77	7.7	7.76	7.79	7.76	7.84	7.73	7.82	7.78
pH (Field) (Std. Units)		7.6	8.1	7.5	8	7.56	7.57	7.36	7.36	7.86	7.04
Potassium (K)		3.3	3.2	3.4	3.3	3.3	3.4	3.1	3.5	3.4	3.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	6	7.5	6	4.6	5.6	4.9	5.2	7.9	4.7	4
Radium 226 (pCi/L)		1.8	1.8	2.1	1.8	2	1.6	2.4	1.8	2.6	1.9
Radium 228 (pCi/L)		4.2	5.7	3.9	2.8	3.6	3.3	2.8	6.1	2.1	2.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.2	11.3	11.5	11.9	11.9	12.2	11.5	11.2	12.1	13.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		36.2	35.4	34.6	36.4	35.8	36.7	34.5	39.4	39	43.3
TDS @ 180° C.	GPS (500)	448	448	454	474	490	483	504	506	511	515
Sulfate (SO4)		199	201	207	223	219	241	246	261	277	244
Temperature (C)		8.8	11	8.4	9.7	9.4	8.9	8.4	12.2	10.1	11.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.3	0.02	0.1	0.009
Uranium, natural (pCi/L)	GPS (36)	3	3.5	3.1	3	2	2.4	2.1	10.1	3.9	2.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01



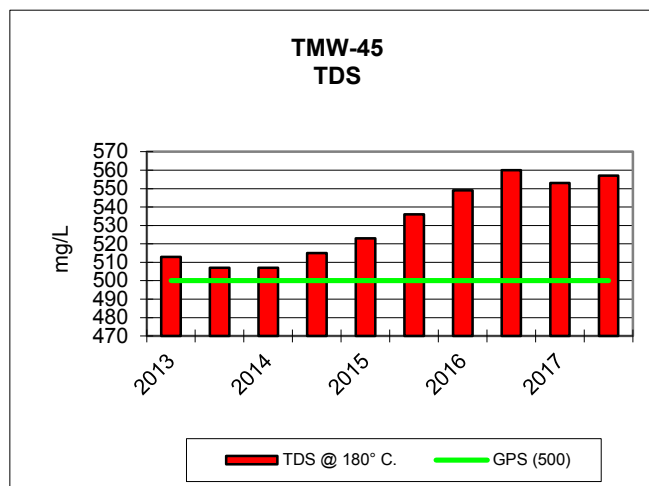
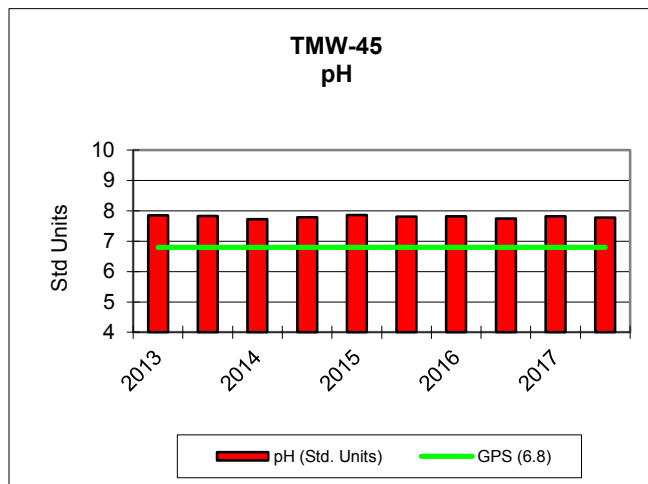
KENNECOTT URANIUM COMPANY											
TMW-44		2013		2014		2015		2016		2017	
PARAMETER unless noted	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05)	2/19/2013	7/23/2013	2/10/2014	7/21/2014	2/11/2015	8/17/2015	2/24/2016	8/9/2016	3/20/2017	8/14/2017
TDS A/C Balance (dec. %)		1.18	0.735	0.09	1.4	1.29	0.14	1.79	2.62	0.05	3.12
Alk-CaCO3		132	135	131	133	132	128	122	134	125	131
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		161	165	160	163	161	157	149	164	153	160
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		113	115	108	116	112	110	106	108	108	111
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		7	8	8	8	8	9	8	8	8	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		745	773	744	766	750	775	748	763	767	762
Cond-Field (umhos/cm)		807	804	842	770	791	790	834	898	799	824
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2	2.6	2.1	2.9	8	8.3	4.7	2.3	2.4	2.4
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.13	0.09	0.11	0.1	0.1	0.09
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	-0.04	0.8	3.8	1.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		9.7	10.2	9.4	9.9	9.5	9.8	9	9.5	9.3	9.6
Manganese (Mn)	GPS (0.2)	0.08	0.08	0.08	0.07	0.08	0.07	0.07	0.07	0.08	0.07
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.75	7.85	7.69	7.77	7.79	7.71	7.79	7.68	7.77	7.77
pH (Field) (Std. Units)		7.6	7.86	7.6	7.7	7.76	7.48	7.34	7.17	7.39	6.6
Potassium (K)		3.1	3.2	3.2	3.1	3.2	3.3	2.9	3	3.1	3.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.8	6.9	6.5	5.3	5	5.3	5.9	4.6	3.3	3.3
Radium 226 (pCi/L)		1.3	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.4	1.6
Radium 228 (pCi/L)		4.5	5.2	4.8	3.7	3.3	3.6	4.2	2.9	1.9	1.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.5	14.9	15.3	14.8	14.7	15.2	14.5	14.5	15.5	15.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		38.8	39.6	38.5	40.5	39	39.5	37.1	37.9	38.7	43.3
TDS @ 180° C.	GPS (500)	549	550	521	529	523	524	528	545	518	525
Sulfate (SO4)		247	256	243	255	242	256	256	259	248	238
Temperature (C)		9.4	11.6	9.2	11.5	9.3	9.5	9.2	12.3	9.5	11.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.1	0.05	0.03	0.08	0.2	0.3	0.1	0.03	0.1	0.06
Uranium, natural (pCi/L)	GPS (36)	0.9	1.4	0.6	0.9	0.3	1.1	1.3	5	0.9	1.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



TMW-44

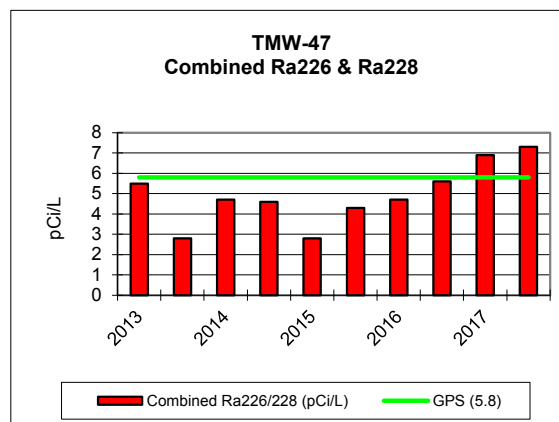
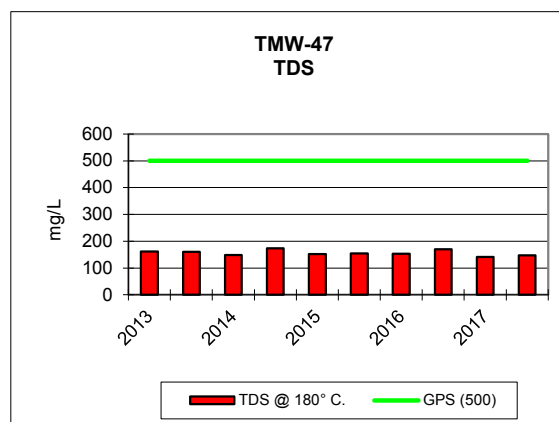
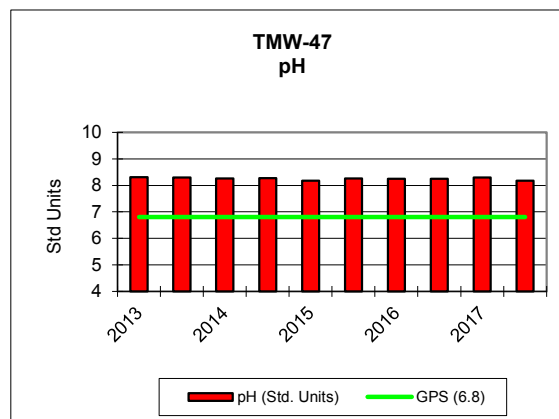
KENNECOTT URANIUM COMPANY											
TMW-45		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	7/23/2013	1/21/2014	7/21/2014	2/11/2015	8/11/2015	2/24/2016	8/9/2016	3/15/2017	8/14/2017
TDS A/C Balance (dec. %)		0.588	2.09	-1.05	1.44	1.09	195	5.91	0.59	1.84	2.39
Alk-CaCO3		151	143	153	148	146	156	137	150	145	147
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		184	175	187	180	178	190	167	183	177	179
Boron (B)		<0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		106	106	108	116	116	116	94.7	115	122	120
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	6	6	6	7	7	6	6	7	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		702	712	724	746	758	778	780	780	809	798
Cond-Field (umhos/cm)		759	731	755	788	787	796	848	867	829	673
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	1.6	1.6	1.2	1.4	6.1	8.8	2.9	2.2	1.8	2.2
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	0.03	0.3	0.8	0.8
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8.1	8.3	8.4	8.6	8.9	8.7	6.9	8.9	9.5	9
Manganese (Mn)	GPS (0.2)	0.07	0.07	0.08	0.08	0.08	0.08	0.06	0.08	0.08	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.85	7.83	7.72	7.79	7.86	7.81	7.82	7.75	7.82	7.78
pH (Field) (Std. Units)		7.5	7.88	7.9	7.8	7.69	7.49	7.16	7.56	7.48	6.99
Potassium (K)		2.9	3	3.3	3.4	3.2	3.5	3.3	3.2	3.5	3.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	1.3	2.94	3.4	3	6.2	3.8	2.4	5.9	3.4	3.5
Radium 226 (pCi/L)		1.3	0.74	1.1	1.2	1.9	1.5	1.2	1.5	1.7	1.7
Radium 228 (pCi/L)		0	2.2	2.3	1.8	4.3	2.3	1.2	4.4	1.7	1.8
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.7	15.9	16	15.7	15.3	14.8	12.4	15.3	16.5	16.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		40.8	38.5	38.2	38.7	37.5	36.8	40.7	38.1	41.6	43.6
TDS @ 180° C.	GPS (500)	513	507	507	515	523	536	549	560	553	557
Sulfate (SO4)		217	210	229	235	237	250	259	246	287	248
Temperature (C)		9.7	12.9	9.4	12.9	8.9	9.7	9.8	14.4	9.3	10.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.06	-0.009	0.1	0.04
Uranium, natural (pCi/L)	GPS (36)	2.9	2.4	1.5	1.6	0.9	0.0041	25.1	2.2	1.4	1.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.21	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21

TMW-45



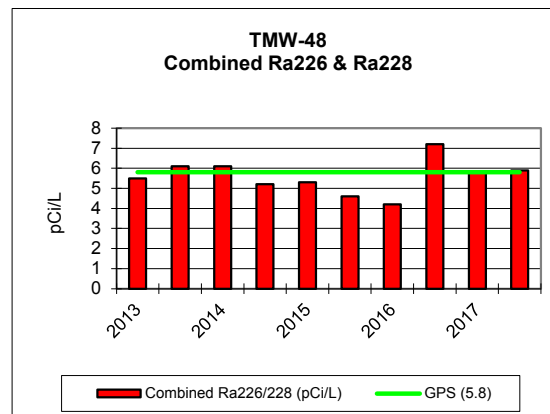
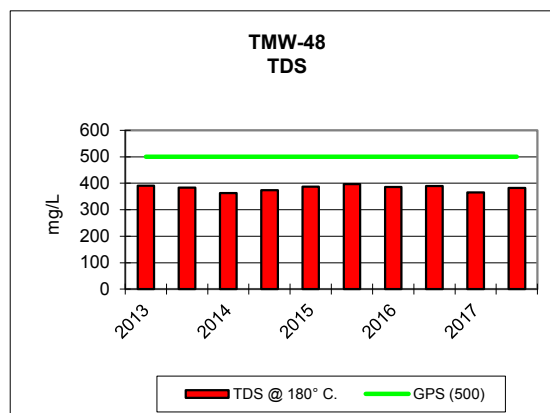
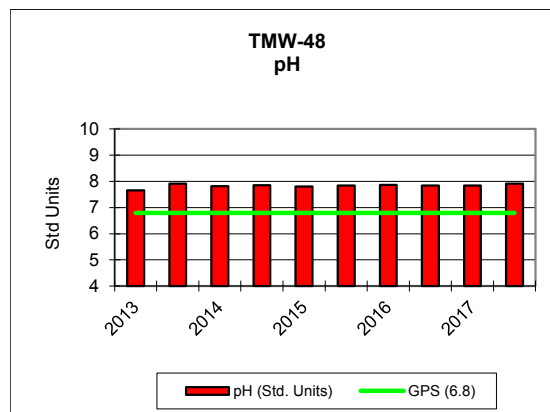
TMW-45

KENNECOTT URANIUM COMPANY											
TMW-47		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2013	7/23/2013	1/21/2014	8/5/2014	2/10/2015	8/11/2015	2/29/2016	8/29/2016	3/15/2017	8/15/2017
TDS A/C Balance (dec. %)		-1.29	1.66	-1.28	1.35	0.07	0.75	3.07	3.17	0.35	2.91
Alk-CaCO3		89	91	90	92	90	87	99	91	86	89
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	<0.001
Barium (Ba)		<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		109	111	110	111	110	107	121	112	105	105
Boron (B)		<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		19.1	20.6	19.3	19.9	19.8	19.4	20.3	17.6	19.3	18.1
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		2	2	2	2	2	2	2	2	2	2
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		240	246	242	243	241	247	243	246	243	242
Cond-Field (umhos/cm)		258	257	294	405	161	257	270	269	268	269
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	4	2.6	3.9	3.4	6.3	37.5	3.6	6.6	4.9	6.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	1.4	1.1	1.1	0.6	1.5	-0.7	1.4	2.5	3.5	1.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		0.8	1	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.7
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.31	8.3	8.26	8.27	8.18	8.26	8.25	8.25	8.29	8.17
pH (Field) (Std. Units)		8.9	8.67	8.6	8.5	8.33	8.42	8.51	8.38	9.23	10.13
Potassium (K)		1.3	1.3	1.4	1.4	1.5	1.6	1.4	1.6	1.4	1.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.5	2.8	4.7	4.6	2.8	4.3	4.7	5.6	6.9	7.3
Radium 226 (pCi/L)		3.9	2.4	3.6	2.6	2.7	3.1	3.6	3.9	4.5	4.6
Radium 228 (pCi/L)		1.6	0.4	1.1	2	0.1	1.2	1.1	1.7	2.4	2.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.1	13.4	13.8	13.9	13.7	13.4	13.4	15.6	14.3	13.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		31.7	33.7	32.3	31.9	32.9	31.3	32.7	32.1	33.4	31.2
TDS @ 180° C.	GPS (500)	162	160	149	174	152	155	153	170	142	147
Sulfate (SO4)		30	30	31	31	31	31	32	31	33	31
Temperature (C)		8.5	13.1	9.1	13.6	9	9.6	8.8	13.9	9.3	11
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	0.2	<0.2	<0.2	0.07	-0.002	0.01	0.06
Uranium, natural (pCi/L)	GPS (36)	0.3	0.5	0.3	0.2	0.2	0.3	0.7	0.3	<0.0003	0.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



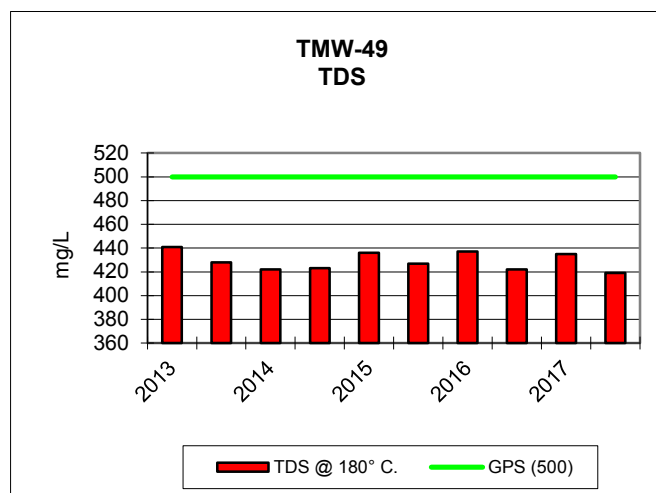
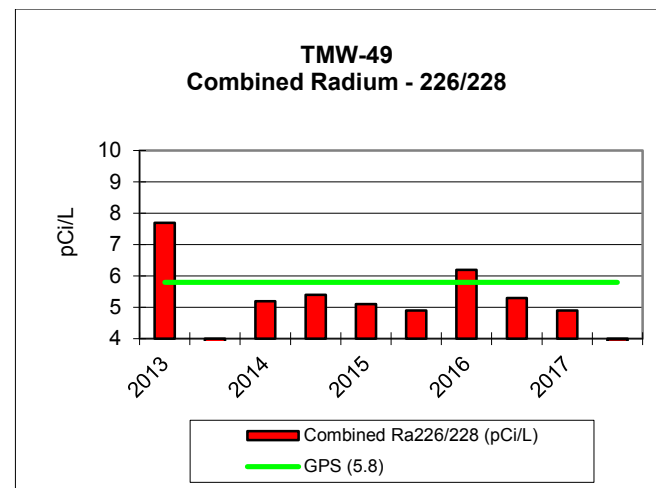
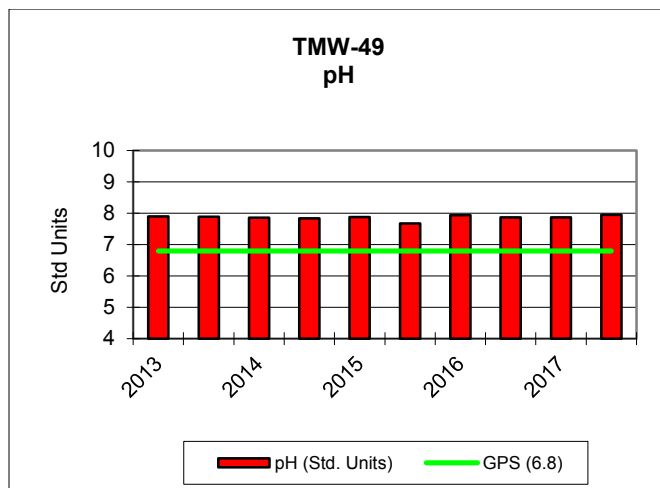
TMW-47

KENNECOTT URANIUM COMPANY											
TMW-48		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2013	7/23/2013	1/21/2014	8/5/2014	2/10/2015	8/11/2015	2/29/2016	8/30/2016	3/14/2017	8/15/2017
TDS A/C Balance (dec. %)		0.145	0.877	-0.293	0.44	0.61	0.98	1.59	0.09	4.68	0.1
Alk-CaCO3		118	117	116	119	118	113	108	119	109	116
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		144	142	141	145	143	138	132	145	133	142
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		79.8	79.5	74.4	79.9	81.7	83.1	80	81.8	72.1	79.8
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	4	5	5	5	5	5	5	5	5
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		560	564	548	557	563	582	544	584	574	598
Cond-Field (umhos/cm)		615	586	609	356	609	595	607	620	584	605
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.2
Gross Alpha (pCi/L)	GPS (15)	2.7	2.7	2.4	2.6	5.9	21.2	3.2	4.5	3.9	3.1
Iron (Fe)	GPS (0.6)	0.08	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	<0.05	0.09	0.09
Lead (Pb210) (pCi/L)	GPS (8.9)	0.7	0.7	0.6	0.8	0.8	1.3	0.7	0.5	2.2	0.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		4.9	5	4.7	5	5	5.1	5	5.1	4.5	5
Manganese (Mn)	GPS (0.2)	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.05
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.66	7.91	7.82	7.85	7.8	7.84	7.86	7.84	7.84	7.91
pH (Field) (Std. Units)		8.15	7.71	8.1	7.8	7.76	7.61	7.72	7.35	8.23	7.19
Potassium (K)		2.7	2.7	2.7	2.7	2.8	2.9	3.3	2.9	2.4	2.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.5	6.1	6.1	5.2	5.3	4.6	4.2	7.2	5.8	5.9
Radium 226 (pCi/L)		3.2	2.6	1.9	1.8	1.8	2.3	2.1	2.8	2.3	2.8
Radium 228 (pCi/L)		2.3	3.5	4.2	3.4	3.5	2.3	2.1	4.4	3.5	3.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		16.3	15.3	15.3	15.4	15.1	15	15	16.5	14.2	16
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		33	33	32.4	32.5	33.8	31.9	34.3	33.8	29	34.6
TDS @ 180° C.	GPS (500)	391	383	363	374	387	397	386	390	366	382
Sulfate (SO4)		162	159	151	164	166	168	167	168	178	167
Temperature (C)		8.4	12	8.6	11.6	8.6	9.2	8.3	10.9	9.2	10.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.05	0.0007	0.09	0.1
Uranium, natural (pCi/L)	GPS (36)	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.8	<0.2	0.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

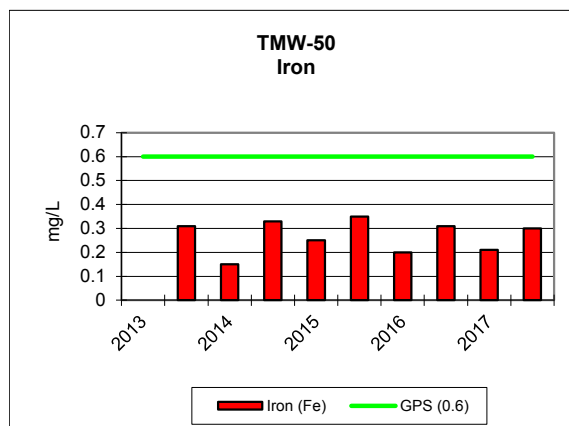
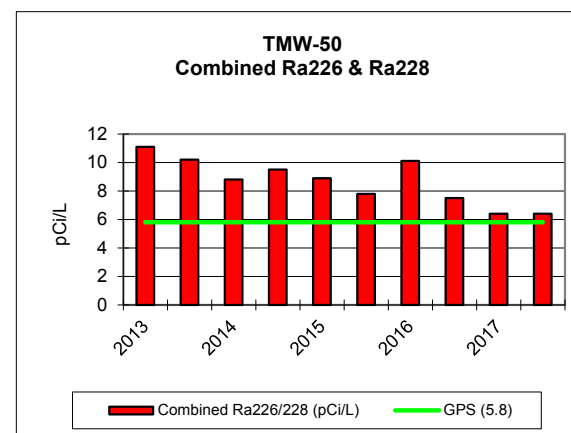
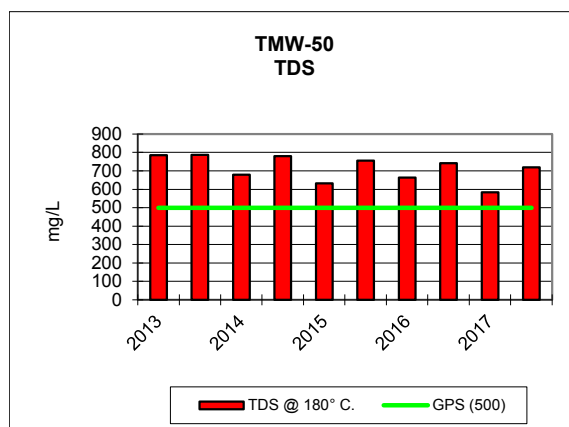
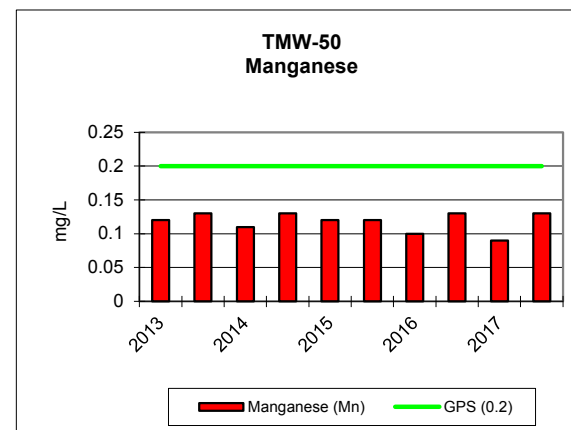
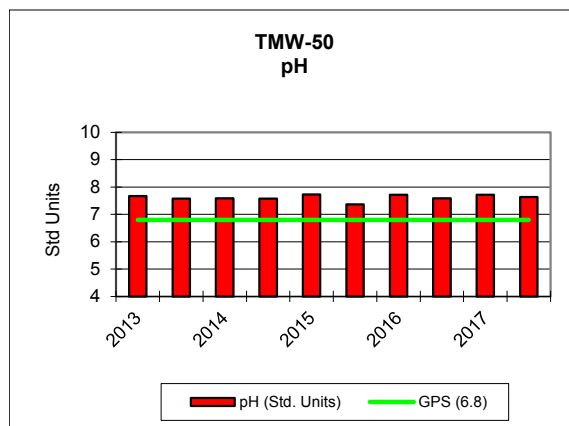


TMW-48

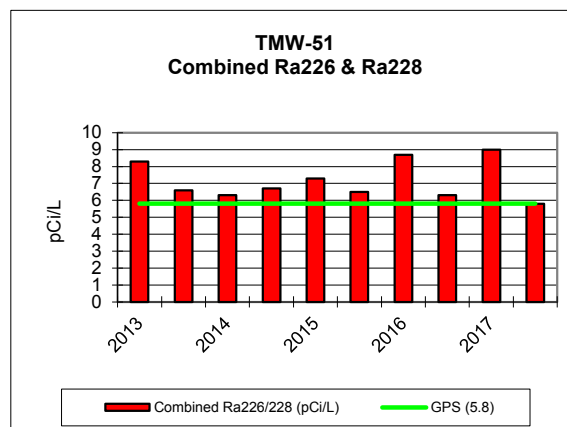
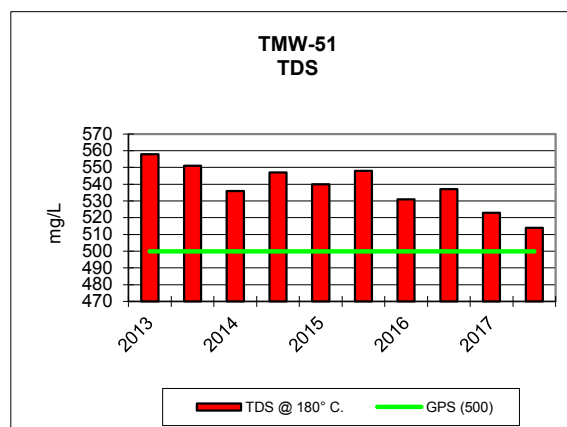
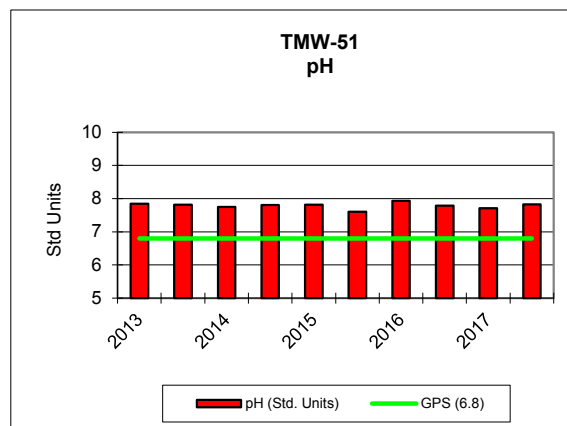
KENNECOTT URANIUM COMPANY											
TMW-49		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	8/6/2013	2/11/2014	9/5/2014	3/17/2015	9/1/2015	3/21/2016	9/21/2016	3/14/2017	9/19/2017
TDS A/C Balance (dec. %)		0.0502	-0.403	0.07	1.53	2.25	0.92	1.56	1.38	3.49	2.22
Alk-CaCO3		126	118	112	113	112	119	109	111	105	113
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		154	145	137	137	136	145	133	135	128	138
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		86	86.3	86.9	85.7	90.4	89.5	85.5	88.4	81.9	85.5
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	6	7	7	8	7	7	8	7	7
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		610	622	616	616	628	622	613	627	632	636
Cond-Field (umhos/cm)		648	695	642	657	1107	648	596	776	691	733
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	1.3	2.1	1.9	1.5	2.1	4.4	2.2	2.7	3.6	2.2
Iron (Fe)	GPS (0.6)	<0.05	0.08	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	0.09	-0.1	0.7	0.07
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		4.3	4.4	4.3	4.2	4.6	4.5	4.4	4.5	4.1	4.3
Manganese (Mn)	GPS (0.2)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.9	7.89	7.86	7.84	7.88	7.68	7.94	7.87	7.87	7.95
pH (Field) (Std. Units)		7.99	7.9	7	7.9	7.85	7.89	7.68	8.16	8.32	7.83
Potassium (K)		2.8	2.9	2.7	2.7	3	2.9	2.8	3	2.8	2.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.7	2.9	5.2	5.4	5.1	4.9	6.2	5.3	4.9	3.9
Radium 226 (pCi/L)		1.3	1.4	1.3	2.2	1.6	1.4	1.4	1.8	1.4	0.9
Radium 228 (pCi/L)		6.4	1.5	3.9	3.2	3.5	3.5	4.8	3.5	3.5	3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.5	15	15.4	14.8	17.3	15.8	15.5	15.6	15.1	14.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		38.7	39.3	38	37.2	39.7	39.9	38.6	40.8	36.3	38.3
TDS @ 180° C.	GPS (500)	441	428	422	423	436	427	437	422	435	419
Sulfate (SO4)		177	190	191	194	189	190	202	211	202	200
Temperature (C)		10.8	11.2	9.1	9.9	9.1	9.6	8.9	13.1	9.5	9.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.05	-0.01	0.09	0.05
Uranium, natural (pCi/L)	GPS (36)	0.4	0.4	0.4	0.3	0.4	0.6	0.4	1.8	0.4	0.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05



KENNECOTT URANIUM COMPANY											
TMW-50		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	8/6/2013	2/18/2014	9/5/2014	3/17/2015	9/1/2015	3/21/2016	9/21/2016	3/7/2017	9/19/2017
TDS A/C Balance (dec. %)		2.11	1.77	1.16	2.81	0.54	2.5	2.32	0.76	2.81	2.03
Alk-CaCO3		154	150	155	162	140	144	150	147	134	148
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		188	182	190	198	171	175	183	179	164	181
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		168	175	146	170	132	170	160	164	120	149
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		17	15	16	15	15	12	14	13	13	12
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1030	1050	929	1030	889	1010	893	1010	853	973
Cond-Field (umhos/cm)		1085	1146	955	1075	1570	1044	978	1008		
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.3	3.2	3.1	3.4	5.8	10.2	3	3	3.2	2.2
Iron (Fe)	GPS (0.6)	<0.05	0.31	0.15	0.33	0.25	0.35	0.2	0.31	0.21	0.3
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	0.5	0.3	0.6	-0.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		11.5	12.8	10.2	12.3	10.3	12.8	10.1	12.1	8.2	10.8
Manganese (Mn)	GPS (0.2)	0.12	0.13	0.11	0.13	0.12	0.12	0.1	0.13	0.09	0.13
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.58	7.59	7.58	7.73	7.36	7.72	7.59	7.72	7.63
pH (Field) (Std. Units)		7.32	7.4	7.7	7.4	7.55	7.32	7.33	7.45		
Potassium (K)		3.7	3.9	3.5	3.4	3.6	3.7	3.8	3.7	3.3	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	11.1	10.2	8.8	9.5	8.9	7.8	10.1	7.5	6.4	6.4
Radium 226 (pCi/L)		2.2	2.1	2.5	3	1.8	2.2	1.8	2.2	1.9	1.6
Radium 228 (pCi/L)		8.9	8.1	6.3	6.5	7.1	5.6	8.3	5.3	4.5	4.8
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		17	16.7	16.9	16.2	19.3	17.1	16.3	16.8	16.7	16.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		46.2	48.2	44.9	44.2	45.9	46.5	44.2	46.9	41.9	42.4
TDS @ 180° C.	GPS (500)	785	787	679	779	632	756	664	742	584	719
Sulfate (SO4)		354	391	328	408	299	377	333	393	290	353
Temperature (C)		10.3	11.5	9.3	9.7	8.9	9.7	9.1	12.4		
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.2	0.2	<0.2	<0.2	<0.2	0.3	0.06	0.04	0.2	0.08
Uranium, natural (pCi/L)	GPS (36)	1.2	1.5	1.2	1.4	1.2	1.6	1.1	1.4	0.9	1.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.05

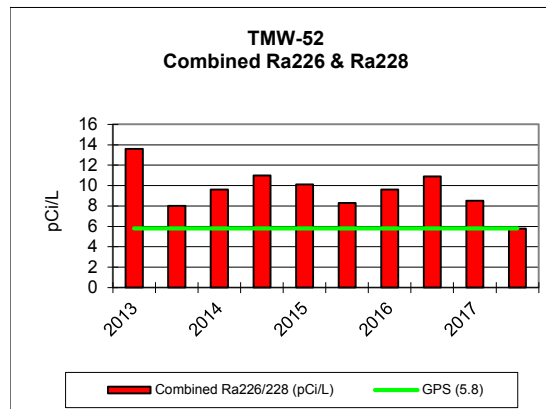
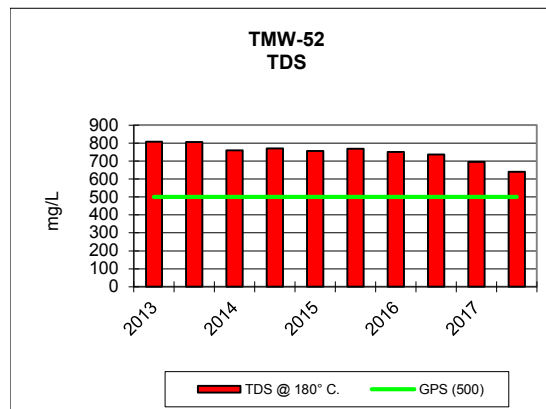
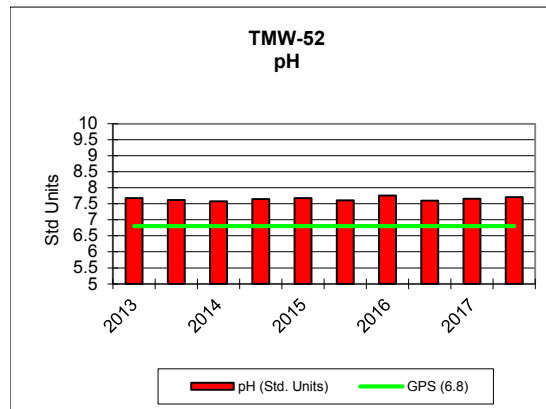


KENNECOTT URANIUM COMPANY											
TMW-51		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	8/6/2013	2/18/2014	9/5/2014	3/17/2015	9/1/2015	3/29/2016	10/5/2016	3/14/2017	9/19/2017
TDS A/C Balance (dec. %)		-1.46	2.44	0.68	1.45	1.17	2.1	1.62	2.11	0.17	2.21
Alk-CaCO3		133	125	134	133	131	127	128	129	119	129
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		162	152	163	162	160	155	156	157	146	157
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		113	121	116	116	114	119	110	115	115	106
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		9	9	10	10	10	10	9	10	10	9
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		764	781	773	771	769	773	746	765	764	740
Cond-Field (umhos/cm)		833	804	807	811	1302	802	836	825	818	871
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.3	1.7	2.5	2.3	2.9	7.4	3.7	3.8	4.5	1.1
Iron (Fe)	GPS (0.6)	<0.05	<0.05	0.06	0.08	0.13	0.14	0.09	0.14	0.07	0.1
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	-0.6	0.3	1	0.5
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8	8.6	8.4	8.1	8.5	8.4	7.8	7.5	8.1	7.4
Manganese (Mn)	GPS (0.2)	0.07	0.08	0.08	0.07	0.08	0.07	0.07	0.06	0.08	0.08
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.84	7.82	7.75	7.81	7.82	7.6	7.93	7.79	7.71	7.83
pH (Field) (Std. Units)		7.7	7.6	8	7.6	7.7	7.63	7.7	7.84	7.35	7.72
Potassium (K)		3.1	3.5	3.3	3.1	3.3	3.2	2.9	3.3	3.3	3
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.3	6.6	6.3	6.7	7.3	6.5	8.7	6.3	9	5.8
Radium 226 (pCi/L)		1.7	1.5	2	2.7	1.8	1.6	1.8	1.6	1.6	1.4
Radium 228 (pCi/L)		6.6	5.1	4.3	4	5.5	4.9	6.9	4.7	7.4	4.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.5	15.6	16	14.9	17.7	15.9	15	15.6	16.7	15.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		39.1	43	41.4	39	41.5	41.5	37.6	36.5	41.4	38.1
TDS @ 180° C.	GPS (500)	558	551	536	547	540	548	531	537	523	514
Sulfate (SO4)		259	266	254	264	248	256	254	266	269	246
Temperature (C)		9.2	9.6	9.1	9.5	9.8	10.1	8.7	9.4	9.5	8.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.08	0.05	0.07	0.01
Uranium, natural (pCi/L)	GPS (36)	1.8	2.5	1.9	2	1.8	2	1.9	1.6	1.6	1.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	0.01



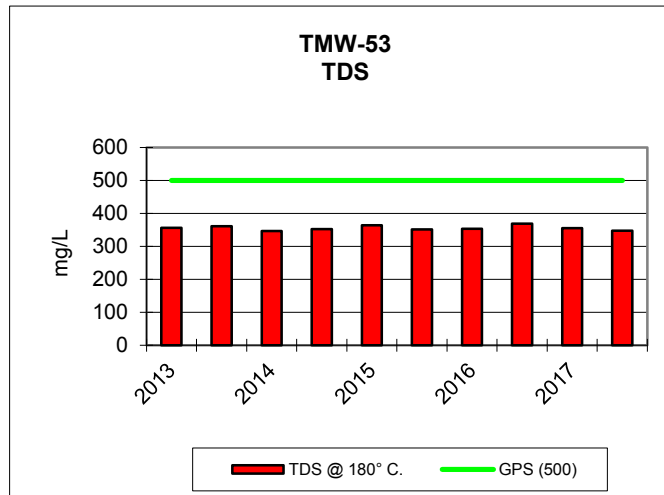
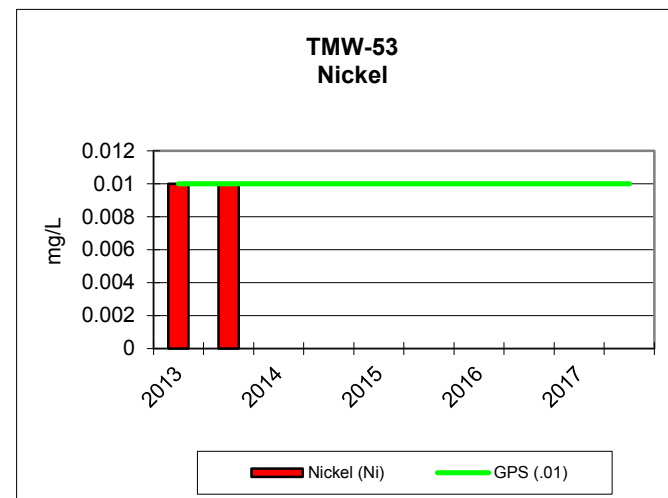
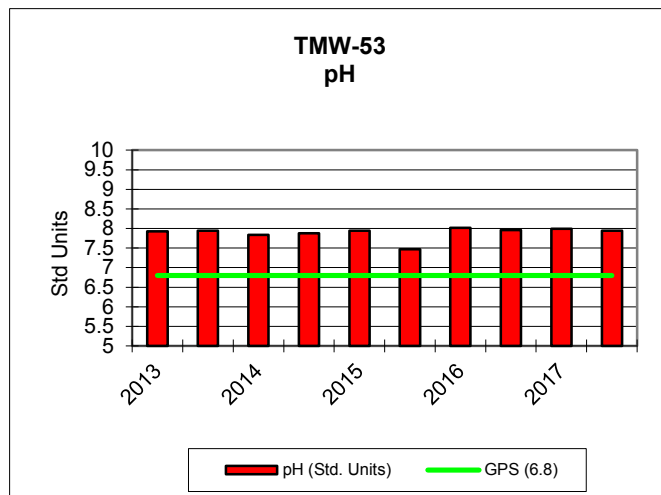
TMW-51

KENNECOTT URANIUM COMPANY											
TMW 52		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	8/6/2013	2/18/2014	9/5/2014	3/17/2015	9/1/2015	3/21/2016	9/28/2016	3/7/2017	9/19/2017
TDS A/C Balance (dec. %)		1.86	3.12	0.35	2.03	0.52	1.9	1.59	1.58	4.31	4.19
Alk-CaCO3		153	152	151	153	146	146	144	144	142	144
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		186	185	184	187	179	178	175	176	173	175
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		174	181	168	168	163	171	162	156	140	129
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	ND
Chloride (Cl)		17	18	19	20	19	17	18	16	16	14
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1050	1070	1020	1030	1020	1030	1010	970	988	901
Cond-Field (umhos/cm)		1100	1162	1066	1073	1828	1071	1145	1091	1081	1064
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	3.4	4.5	2.8	3.4	5.9	10.7	3	5.3	4.5	2.6
Iron (Fe)	GPS (0.6)	<0.05	0.06	0.16	0.16	0.28	0.26	0.27	0.26	0.26	0.22
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	0.3	0.3	0.5	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		11.2	11.7	11.2	10.7	10.7	11	10.7	9.8	9.1	8.3
Manganese (Mn)	GPS (0.2)	0.12	0.12	0.12	0.11	0.11	0.12	0.11	0.11	0.1	0.11
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.68	7.62	7.58	7.65	7.68	7.61	7.76	7.6	7.66	7.71
pH (Field) (Std. Units)		7.43	7.4	7.7	7.7	7.54	7.42	7.34	7.85	7.78	7.56
Potassium (K)		3.9	4.3	3.9	3.7	3.9	3.9	3.7	3.8	3.5	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	13.6	8	9.6	11	10.1	8.3	9.6	10.9	8.5	5.8
Radium 226 (pCi/L)		2.7	3.1	2.7	3.7	2.5	2.5	2.7	2.6	2.7	2.2
Radium 228 (pCi/L)		10.9	4.9	6.9	7.3	7.6	5.8	6.9	8.3	5.8	3.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		16.7	17.1	16.9	16.1	16.2	17.1	16.6	16.7	16.5	16.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		50.5	53.1	50.8	47.5	47.5	50.2	47.7	45.4	45.5	41.8
TDS @ 180° C.	GPS (500)	808	806	760	771	756	769	751	736	695	640
Sulfate (SO4)		380	389	384	397	376	378	390	370	356	314
Temperature (C)		11	13	9.2	9.4	9.5	9.4	9.1	14.8	7.9	7.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	0.2	<0.2	<0.2	<0.2	0.2	0.01	-0.002	0.3	0.04
Uranium, natural (pCi/L)	GPS (36)	2.5	2.6	2.6	2.3	2.5	2.4	2	2	3.2	1.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	1.02	<0.01	0.01

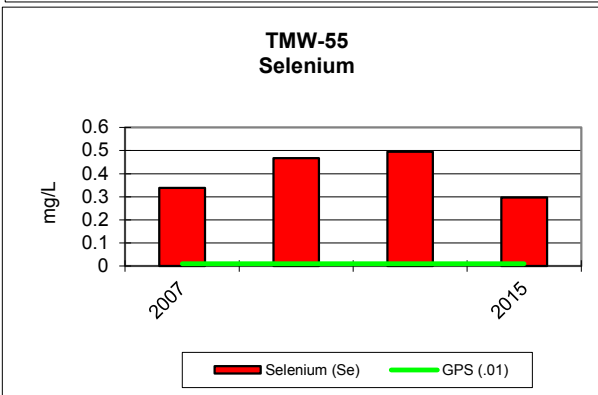
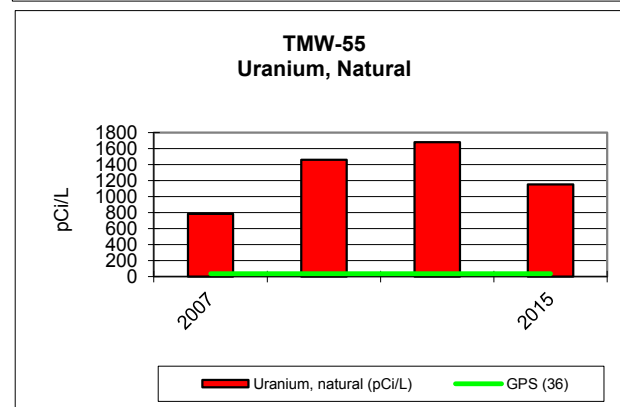
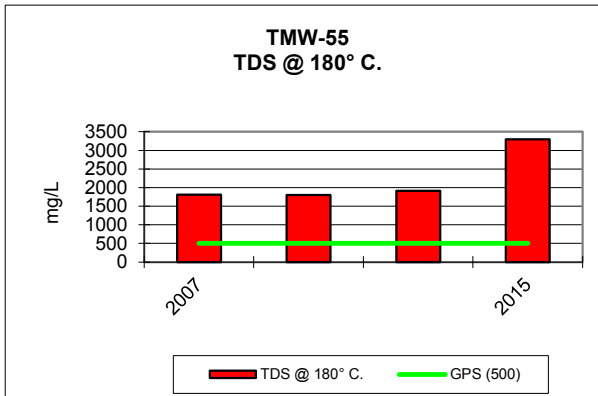
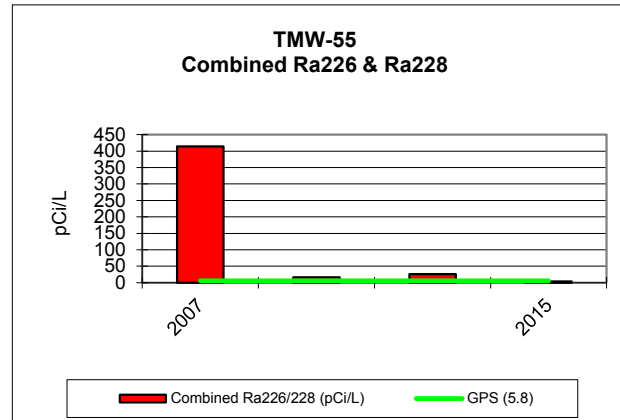
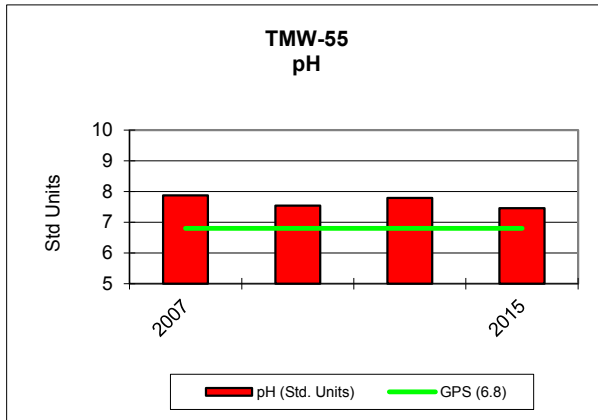


TMW-52

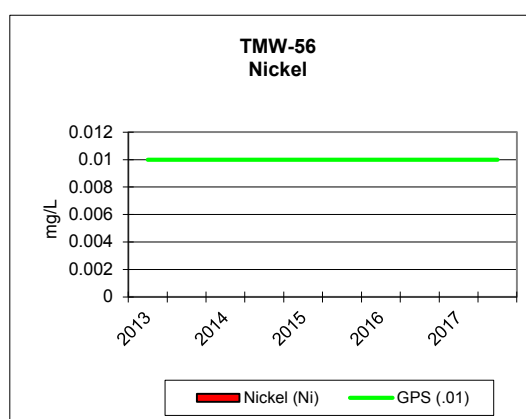
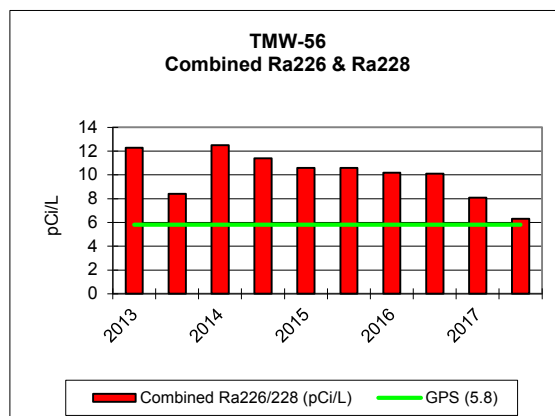
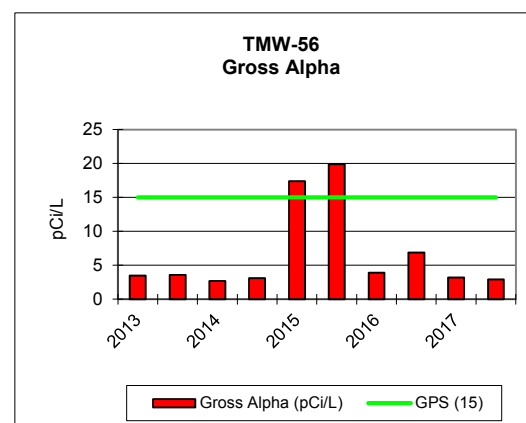
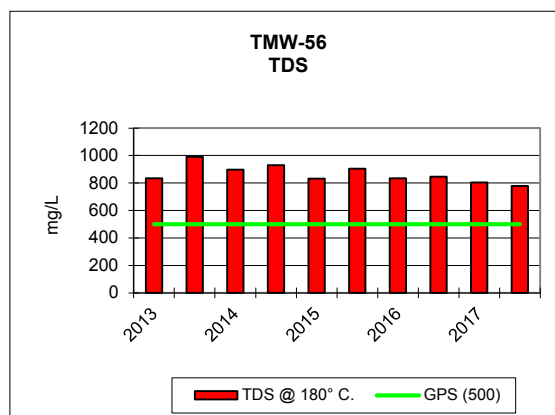
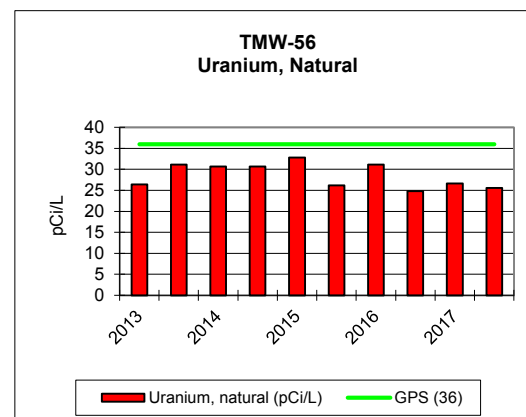
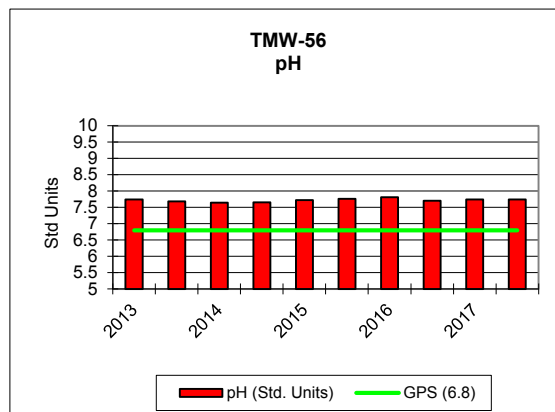
KENNECOTT URANIUM COMPANY											
TMW-53		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	8/5/2013	2/17/2014	9/5/2014	3/17/2015	9/1/2015	3/29/2016	10/5/2016	3/13/2017	9/19/2017
TDS A/C Balance (dec. %)		0.264	1.95	0.89	0.79	1.81	2.51	0.7	4.05	0.66	3.27
Alk-CaCO3		105	104	105	105	104	101	102	108	94	105
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		128	127	128	128	126	123	122	132	115	127
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		67.7	68.9	67.7	67.1	69.6	69.1	65.7	62.3	66.7	63.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	5	6	6	6	6	6	6	6	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		523	532	527	527	532	530	521	530	534	527
Cond-Field (umhos/cm)		582	631	575	556	959	549	582	579	575	871
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	1.6	1.4	1.2	1.3	1.7	3.7	2.2	5.4	3.2	1.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	-0.1	0.3	1.1	1.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		3.1	3.1	3.2	3	3.1	3.1	3	3.1	3	2.8
Manganese (Mn)	GPS (0.2)	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0.04	0.03	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.93	7.94	7.84	7.88	7.94	7.47	8.02	7.96	7.99	7.94
pH (Field) (Std. Units)		7.9	7.3	8.2	8	7.93	7.98	7.94	8	8.28	7.72
Potassium (K)		2.3	2.6	2.5	2.4	2.5	2.5	2.3	2.5	2.4	2.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.62	2.42	4.29	4.2	4.6	3.11	3.1	1.98	3.7	2.8
Radium 226 (pCi/L)		0.92	0.82	0.89	1.2	1.2	0.91	1	0.38	1.1	0.7
Radium 228 (pCi/L)		2.7	1.6	3.4	3	3.4	2.2	2.1	1.6	2.6	2.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.2	15.6	15.6	14.5	15.6	15.5	14.5	15	15.5	14.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		37.9	40.9	41	38.5	40.7	40.8	37.5	40.7	39.1	38.3
TDS @ 180° C.	GPS (500)	357	361	347	353	364	352	354	369	356	348
Sulfate (SO4)		147	148	150	151	150	149	148	158	155	155
Temperature (C)		8.8	13.2	9.4	9.2	10.2	9.2	8.7	9.5	9.1	8.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.05	-0.006	0.2	0.08
Uranium, natural (pCi/L)	GPS (36)	0.3	0.3	0.3	0.8	0.3	0.6	0.3	0.3	0.3	0.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	0.02



KENNECOTT URANIUM COMPANY					
TMW-55		2007			2015
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	8/21/2007	9/5/2007	12/5/2007	8/4/2015
TDS A/C Balance (dec. %)		1.05	0.97	1.11	1.2
Alk-CaCO3		88	86	99	223
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		108	105	120	272
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		382	425	380	760
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		86	117	132	248
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	0.002
Cond (umhos/cm)		2210	2220	2280	3660
Cond-Field (umhos/cm)		1985	236	235	
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.3	0.3	0.1	
Gross Alpha (pCi/L)	GPS (15)	429	15.4	30.1	2.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	0.17	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	1.9	1.6
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		40	42.9	39.4	57.4
Manganese (Mn)	GPS (0.2)	0.03	0.02	0.02	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.02
Nitrogen, Nitrate+Nitrite as N		4.8	7.3	7.5	6.7
pH (Std. Units)	GPS (6.8)	7.88	7.54	7.79	7.46
pH (Field) (Std. Units)		7.7	7.4	7.4	
Potassium (K)		7.4	8	5.9	8.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	414.2	16.5	26.1	3.5
Radium 226 (pCi/L)		410	13	22.6	1.8
Radium 228 (pCi/L)		4.2	3.5	3.5	1.7
Selenium (Se)	GPS (.01)	0.338	0.467	0.495	0.297
Silica (SiO2)		10	8	8	6.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		79.6	88.6	86.8	161
TDS @ 180° C.	GPS (500)	1810	1800	1910	3300
Sulfate (SO4)		1040	1080	976	1760
Temperature (C)		18	16.2	9	
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	0.02
Uranium, natural (pCi/L)	GPS (36)	785	1460	1680	1150
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.27



KENNECOTT URANIUM COMPANY											
TMW-56		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/5/2013	8/5/2013	2/18/2014	9/19/2014	3/23/2015	9/2/2015	3/22/2016	9/7/2016	3/21/2017	9/19/2017
TDS A/C Balance (dec. %)		-1.56	2.11	0.87	2.64	1.57	1.36	2.15	4.45	0.97	5.24
Alk-CaCO3		96	92	98	97	96	95	98	99	98	99
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.014	0.015	0.014	0.017	0.017	0.014	0.013	0.014	0.012	0.01
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		117	112	119	118	118	115	119	121	120	121
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		167	210	184	193	199	196	176	170	169	151
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		25	38	29	39	32	34	26	31	25	26
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001
Cond (umhos/cm)		1080	1270	1170	1200	1200	1190	1090	1130	1120	1050
Cond-Field (umhos/cm)		1153	1401	1208	1231	2080	1242	1247	1225		
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	3.5	3.6	2.7	3.1	17.4	19.9	3.9	6.9	3.2	2.9
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	0.06	0.1	0.1	0.09	0.09	0.08	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.4	0.8	0.4	0.2	1.4	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		13.3	16.6	15	15.2	15.6	15.8	14.2	14	13.4	12.1
Manganese (Mn)	GPS (0.2)	0.09	0.11	0.11	0.1	0.12	0.1	0.09	0.09	0.09	0.1
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.74	7.68	7.64	7.65	7.72	7.76	7.81	7.7	7.74	7.74
pH (Field) (Std. Units)		7.09	7	7.9	7.8	7.59	7.42	7.47	7.36		
Potassium (K)		3.6	4.5	4.2	4.4	4.6	4.3	4.1	4.3	4	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.3	8.4	12.5	11.4	10.6	10.6	10.2	10.1	8.1	6.3
Radium 226 (pCi/L)		3.2	2.8	3.5	3	4	2.3	3.2	2.5	2.8	2.3
Radium 228 (pCi/L)		9.1	5.6	9	8.4	6.6	8.3	7	7.6	5.3	4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		9.8	10.6	10.1	10	10	10.8	10.3	9.8	10.5	10.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		45.4	56	51.3	51.2	53.4	54.6	49.9	47.8	49.6	45
TDS @ 180° C.	GPS (500)	834	990	897	929	831	904	835	845	805	779
Sulfate (SO4)		443	522	490	524	500	498	483	485	449	433
Temperature (C)		9.8	13.8	9.1	9.7	9.3	10	8.5	11.7		
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.05	0.1	0.02	0.04	0.08	0.01
Uranium, natural (pCi/L)	GPS (36)	26.4	31.1	30.7	30.7	32.8	26.2	31.1	24.8	26.6	25.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01

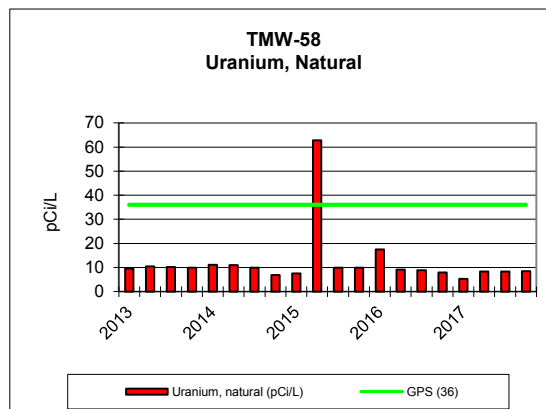
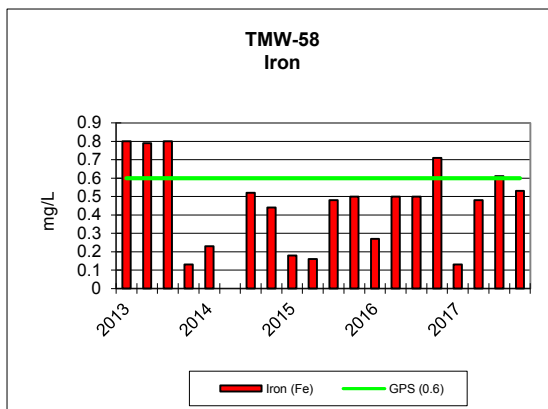
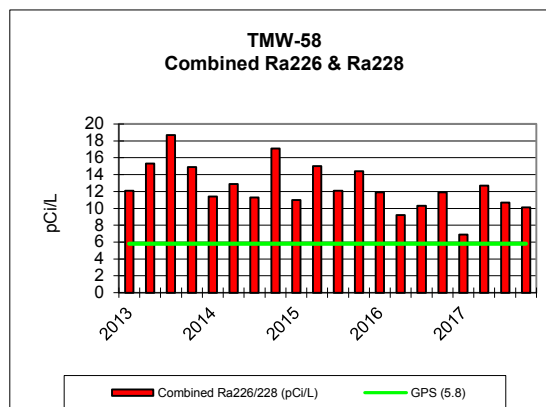
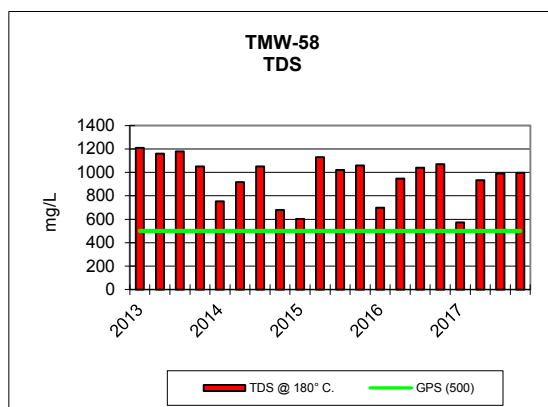
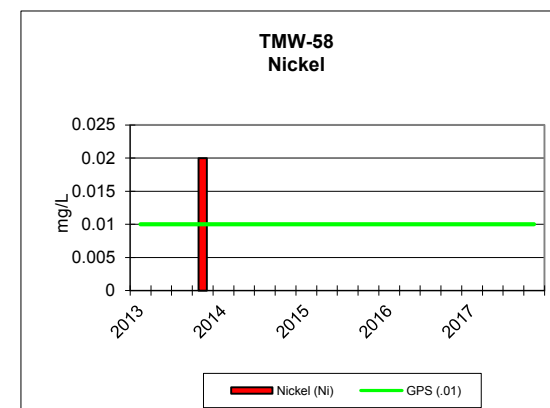
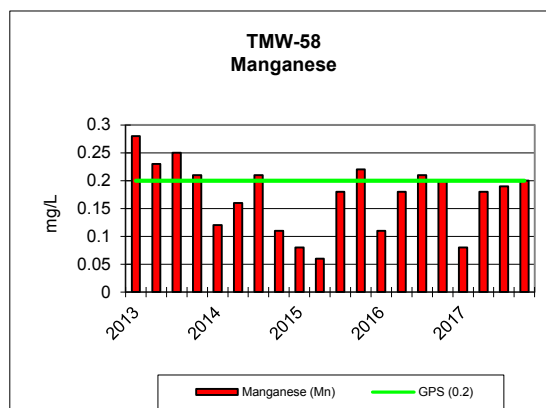
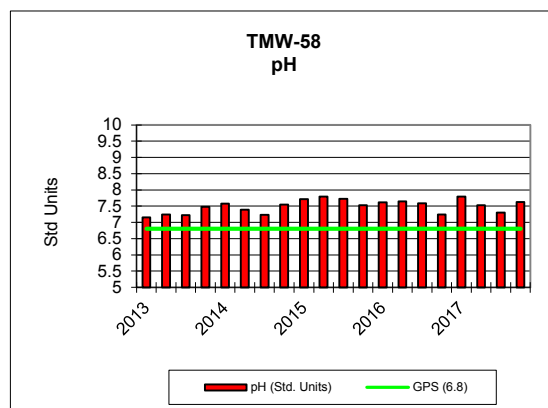


KENNECOTT URANIUM COMPANY																
TMW-57		2013			2014			2015			2016					
PARAMETER <i>unless noted</i>	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05)	1/22/2013	4/2/2013	7/9/2013	10/1/2013	3/18/2014	4/1/2014	7/1/2014	10/15/2014	1/14/2015	4/8/2015	7/13/2015	10/26/2015	1/4/2016	4/18/2016	7/5/2016
TDS A/C Balance (dec. %)		2.85	-2.89	1.77	-1.47	0.55	1.42	1.51	0.75	0.42	0.68	0.21	0.46	3.34	2.28	2.69
Alk-CaCO3		100	105	105	122	105	105	114	101	102	92	108	107	119	99	106
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		122	128	128	149	128	128	139	124	124	112	132	130	145	121	130
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		106	79.3	88.4	77.3	74.3	86.1	87.8	56.4	60.4	95.3	89	83.5	59.1	83.3	84.7
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		7	8	7	7	7	8	8	5	5	9	8	8	5	7	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.016	<0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.018	0.001	<0.001	<0.001	<0.001	0.001
Cond (umhos/cm)		694	603	623	548	571	612	627	445	480	665	624	597	452	588	605
Cond-Field (umhos/cm)		744	694	743	593	676	688	666	481	521		659	672	460	652	758
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.1	0.1	<0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.2	2.2	1.6	1.5	2.1	2.5	1.8	2	4.9	8.7	5.4	9.8	1.9	6.8	1.7
Iron (Fe)	GPS (0.6)	1.4	0.1	0.09	0.08	0.13	0.06	<0.05	0.13	0.23	1.19	<0.05	<0.05	0.1	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	0	-0.2	0.3	0.8	0.6	0.21	1.5
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		11.1	5.6	6.3	5	5.4	6.3	6.2	3.4	4.1	10.7	5.9	6	3.6	6	6
Manganese (Mn)	GPS (0.2)	0.26	0.06	0.07	0.07	0.06	0.07	0.07	0.05	0.07	0.28	0.07	0.06	0.04	0.06	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.02	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.34	7.78	7.79	7.86	7.74	7.81	7.72	7.99	7.69	7.33	7.96	7.93	7.88	7.98	7.89
pH (Field) (Std. Units)		7.13	7.9	7.8	7.76	7.5	8.1	8	7.92	8.24	7.21	7.79	7.46	7.69	7.63	6.78
Potassium (K)		3	2.7	3.2	2.7	2.7	2.9	3	2.4	2.6	2.9	2.9	3.1	2.7	2.8	2.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.2	8.2	7.8	4.9	6.7	7.4	6.3	7.2	5.3	8.8	7	6.5	7	5.4	6.6
Radium 226 (pCi/L)		1.8	1.9	2	1.2	1.9	1.9	1.4	1.2	1.6	2.5	1.9	1.5	1.2	1.5	1.4
Radium 228 (pCi/L)		4.4	6.3	5.8	3.7	4.8	5.5	4.9	6	3.7	6.3	5.1	5	5.8	3.9	5.2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		17.7	14.1	14.4	13.9	13.3	14.2	13.9	14.7	14.6	16.5	14.5	14	13.6	14.2	13.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		33.7	34.3	37.2	34.9	34.1	36.4	36.2	31.5	31.9	34.8	36.1	36.6	31.6	35.4	34.7
TDS @ 180° C.	GPS (500)	489	403	413	378	372	415	434	299	304	492	422	422	294	409	412
Sulfate (SO4)		246	193	196	163	161	191	204	116	127	241	200		119	182	174
Temperature (C)		8.1	9.3	13.7	13.8	9.6	9.4	10.3	12	7.8	9.7	10.8	9.6	8.8	9.4	13.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.06	-0.02	0.03	0.1	-0.003	0.1	0.006
Uranium, natural (pCi/L)	GPS (36)	3.3	3.3	3.7	3.6	4.2	4.8	4.2	2.8	2.2	1.9	3.8	3.7	2.8	4	3.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY						
TMW-57						
PARAMETER (mg/L) unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/4/2016	2/22/2017	4/19/2017	7/31/2017	10/24/2017
TDS A/C Balance (dec. %)		3.21	0.85	4.14	1.5	0.49
Alk-CaCO3		103	88	103	98	106
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		126	107	125	112	129
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		80	53	74.6	78.3	78.5
Carbonate (CO3)		<1	<1	<1	<1	<1
Chloride (Cl)		8	7	7	7	7
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	0.001	<0.001	0.001	<0.001
Cond (umhos/cm)		603	425	592	588	591
Cond-Field (umhos/cm)		654		635	690	652
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	6.1	2.3	1.7	2.4	2.2
Iron (Fe)	GPS (0.6)	0.11	0.08	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3	1	0.2	0.3	0.8
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		5.7	3.5	5.3	5.3	5.8
Manganese (Mn)	GPS (0.2)	0.06	0.04	0.06	0.06	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.79	7.72	7.96	7.89	7.94
pH (Field) (Std. Units)		7.86		7.95	8.21	7.73
Potassium (K)		2.6	2.4	2.6	2.6	2.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.5	5.1	6.4	8.7	6.5
Radium 226 (pCi/L)		1.4	1	1.2	1.5	1.5
Radium 228 (pCi/L)		3.1	4.1	5.2	7.2	5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.8	14.9	13.8	12.6	14.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		35.2	27.8	33.5	33	34.1
TDS @ 180° C.	GPS (500)	404	265	396	401	423
Sulfate (SO4)		201	111	187	169	177
Temperature (C)		10.6		12.6	11.9	10.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.05	0.1	0.02	0.08	0.05
Uranium, natural (pCi/L)	GPS (36)	3.1	1.2	3.9	3.8	4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.01	0.02	<0.01

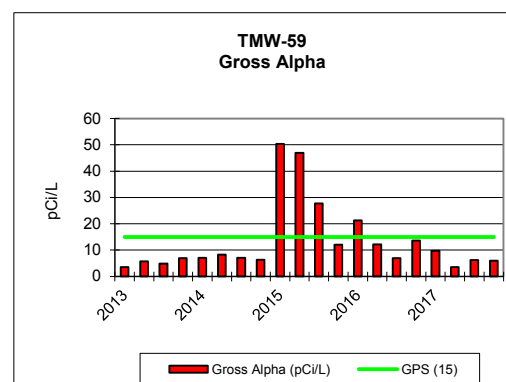
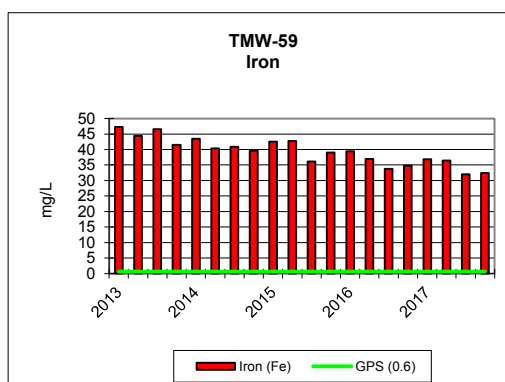
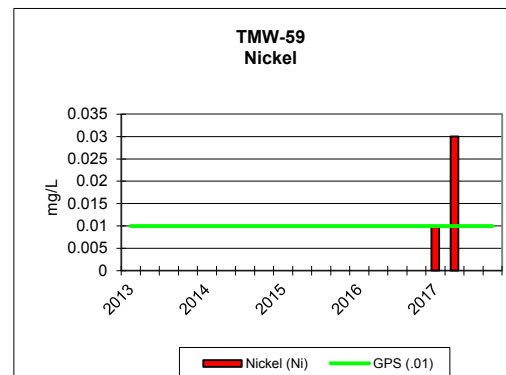
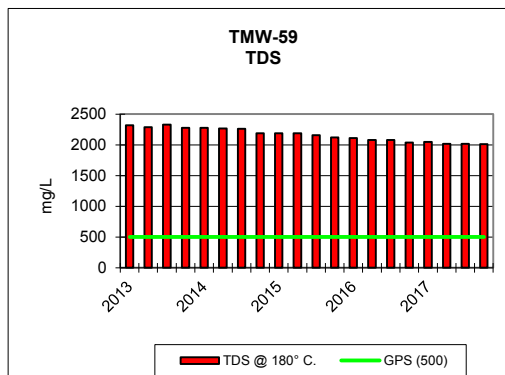
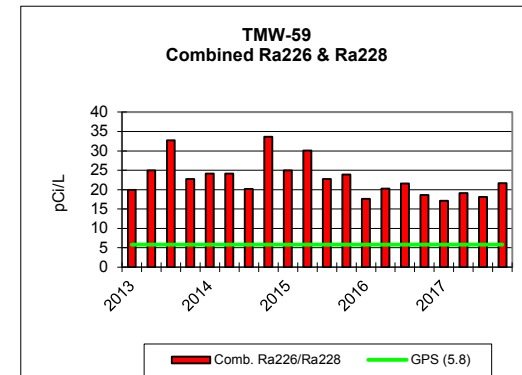
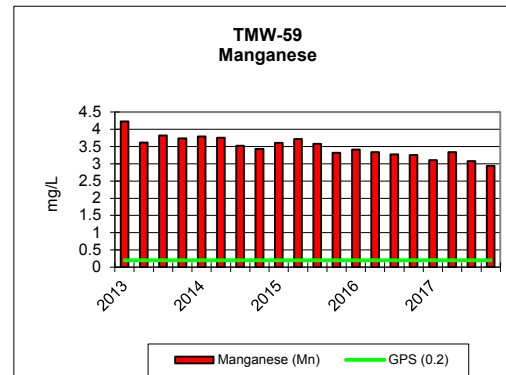
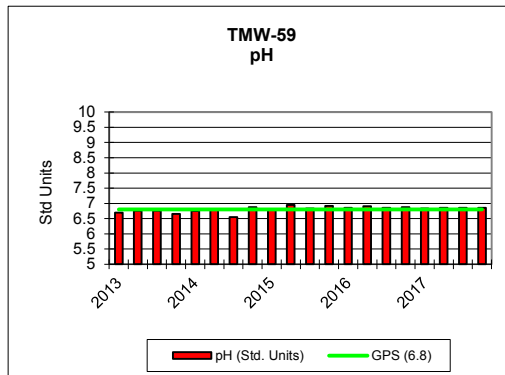
KENNECOTT URANIUM COMPANY																	
TMW-58		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/14/2013	4/2/2013	7/9/2013	10/1/2013	3/12/2014	4/1/2014	7/1/2014	10/15/2014	1/14/2015	4/8/2015	7/13/2015	11/3/2015	1/4/2016	4/18/2016	7/6/2016	10/4/2016
TDS A/C Balance (dec. %)		4.36	-3.76	1.51	-4.7	0.07	1.94	0.47	2.42	2.83	0.74	2.13	0.52	1.09	0.55	1.33	4.94
Alk-CaCO3		204	204	193	175	116	149	171	131	110	115	167	176	118	141	168	169
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		248	248	236	214	142	182	209	160	135	140	204	215	144	172	206	207
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		302	254	268	216	156	198	228	143	123	243	217	245	146	207	229	225
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		41	42	38	33	22	28	32	20	18	48	34	36	21	31	36	37
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Cond (umhos/cm)		1460	1480	1220	1320	1010	1190	1340	926	880	1400	1310	1390		1210	1240	1400
Cond-Field (umhos/cm)		1553	1590	1545	1395	1079	1292	1358	990	885		1360	1268	975	1360	1569	1502
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	3.5	5.3	3.6	6.5	4.3	5.9	4.2	5.5	37.4	61.5	13.9	8.2	15	15.9	5	26.7
Iron (Fe)	GPS (0.6)	0.8	0.79	0.8	0.13	0.23	<0.05	0.52	0.44	0.18	0.16	0.48	0.5	0.27	0.5	0.5	0.71
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	0.2	0.06	-0.6	0.4	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	0.25	1.4	0.3
Magnesium (Mg)		23	19.7	20.8	15.2	12.5	15.8	17.6	10	8.8	25.7	17.2	18.3	10.7	16.3	17.8	17.9
Manganese (Mn)	GPS (0.2)	0.28	0.23	0.25	0.21	0.12	0.16	0.21	0.11	0.08	0.06	0.18	0.22	0.11	0.18	0.21	0.2
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.15	7.24	7.22	7.48	7.58	7.39	7.23	7.55	7.72	7.79	7.73	7.53	7.62	7.65	7.59	7.24
pH (Field) (Std. Units)		7.58	7	7	7.57	7.4	7.4	7.6	7.11	8.43	7.25	7.18	6.95	7.5	7.27	6.66	6.95
Potassium (K)		4.9	4.3	4.8	3.8	3.6	4.1	4.3	3.4	3.4	5.2	4.2	4.2	3.4	4	4.3	4.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.1	15.3	18.7	14.9	11.4	12.9	11.3	17.1	11	15	12.1	14.4	11.9	9.2	10.3	11.9
Radium 226 (pCi/L)		3.7	2.8	3.4	3.6	3.1	4.3	2.6	3.7	4.8	5.7	2.9	3.1	4.2	3.5	2.4	2.7
Radium 228 (pCi/L)		8.4	12.5	15.3	11.3	8.3	8.6	8.7	13.4	6.2	9.3	9.2	11.3	7.7	5.7	7.9	9.2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		18	16	16.2	14.7	12.9	14.7	15.1	13.9	12.7	9.3	15.6	14.9	13.6	15	14.2	14.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		63.9	58.9	63.3	48.6	47.5	54	56.9	45.5	43	56.8	57.1	57.3	46.2	53.8	56.7	56.9
TDS @ 180° C.	GPS (500)	1210	1160	1180	1050	754	917	1050	680	603	1130	1020	1060	700	948	1040	1070
Sulfate (SO4)		625	626	598	538	387	449	540	351	318	646	537	559	362	493	513	597
Temperature (C)		7.7	9.5	13.2	13.8	10.2	10.3	10.5	11.9	7.4	10.8	12.4	10.7	9	9.2	12.1	10
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.1	0.07	0.1	0.1	0.09	0.07	0.03	0.08
Uranium, natural (pCi/L)	GPS (36)	9.6	10.5	10.2	10	11.2	11	10	6.9	7.6	62.8	9.9	9.9	17.5	9.2	8.9	8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	<0.01	<0.01

KENNECOTT URANIUM COMPANY					
TMW-58		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/22/2017	4/19/2017	7/31/2017	10/16/2017
TDS A/C Balance (dec. %)		1.1	4.24	1.13	2.94
Alk-CaCO3		106	147	157	176
Aluminum (Al)	GPS (1.8)	ND	ND	ND	ND
Arsenic (As)	GPS (.05)	ND	ND	ND	ND
Barium (Ba)		ND	ND	ND	ND
Beryllium (Be)	GPS (.01)	ND	ND	ND	ND
Bicarbonate (HCO3)		129	179	173	215
Boron (B)		ND	ND	ND	ND
Cadmium (Cd)	GPS (.01)	ND	ND	ND	ND
Calcium (Ca)		120	190	209	215
Carbonate (CO3)		<1	<1	9	<1
Chloride (Cl)		16	31	31	35
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	<0.001	<0.001
Cond (umhos/cm)		838	1210	1310	660
Cond-Field (umhos/cm)					
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	5.6	3.1	5.2	2.9
Iron (Fe)	GPS (0.6)	0.13	0.48	0.61	0.53
Lead (Pb210) (pCi/L)	GPS (8.9)	0.5	0.07	0.2	1.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8.4	15	16.9	16.9
Manganese (Mn)	GPS (0.2)	0.08	0.18	0.19	0.2
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.79	7.53	7.3	7.63
pH (Field) (Std. Units)					
Potassium (K)		3.3	3.9	4	4.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.9	12.7	10.7	10.1
Radium 226 (pCi/L)		1.9	2.4	2.4	2.8
Radium 228 (pCi/L)		5	10.3	8.3	7.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.7	14.7	15.1	15.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		42.5	51.9	55.1	55.4
TDS @ 180° C.	GPS (500)	574	934	991	996
Sulfate (SO4)		299	501	480	528
Temperature (C)					
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.1	0.07	0.03	0.03
Uranium, natural (pCi/L)	GPS (36)	5.3	8.4	8.3	8.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.16

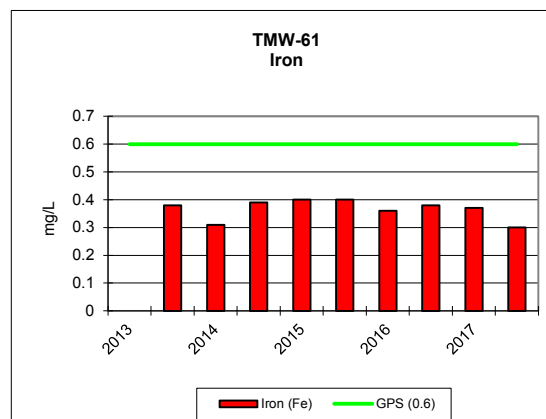
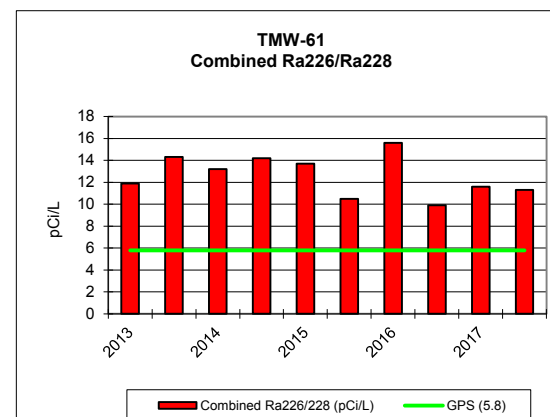
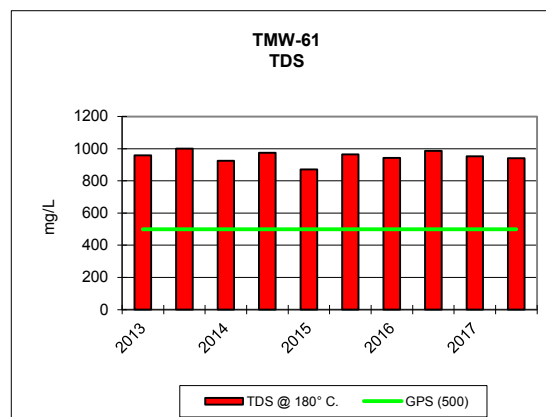
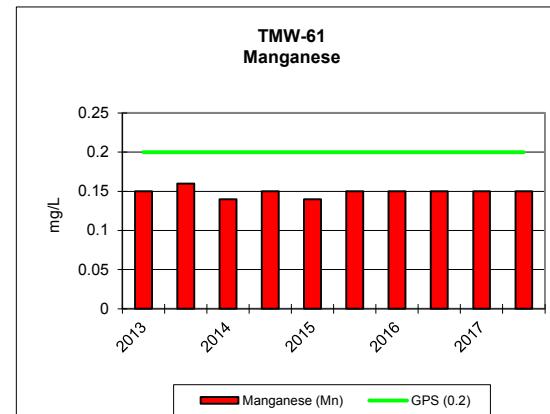
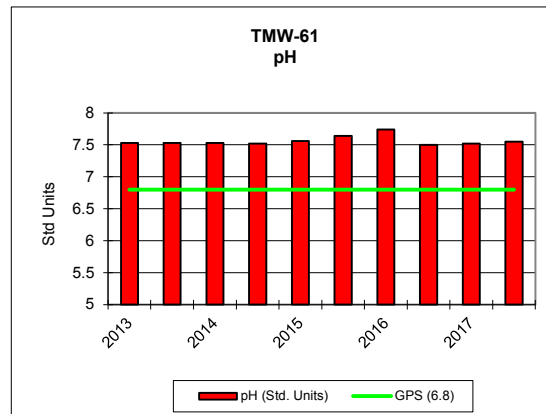


KENNECOTT URANIUM COMPANY																	
TMW-59		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/14/2013	4/2/2013	7/9/2013	10/1/2013	1/21/2014	4/1/2014	7/1/2014	10/15/2014	1/14/2015	4/8/2015	7/8/2015	11/2/2015	1/5/2016	4/21/2016	7/6/2016	10/3/2016
TDS A/C Balance (dec. %)		-1.17	-4.59	-1.35	-3.49	-1.89	4.62	1.29	2.74	2.06	1.04	0.9	0.07	0.39	1.2	0.57	3.01
Alk-CaCO3		282	286	250	269	270	277	253	255	251	254	273	276	266	249	251	255
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		343	349	305	329	330	338	309	311	306	310	333	336	325	303	307	311
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		481	459	456	442	449	448	488	452	441	454	442	440	442	424	429	406
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		79	84	77	77	78	79	75	71	79	85	73	73	74	70	73	73
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.008	0.007	0.006	0.007	0.006	0.007	0.006	0.009	0.006	0.005	0.006	0.005	0.005	0.005	0.004	0.007
Cond (umhos/cm)		2590	2590	2610	2490	2580	2650	2530	2490	2570	2440	2410	2480	2370	2350	2240	2440
Cond-Field (umhos/cm)		2920	2910	2890	2780	2890	2870	2700	2690	2600		2680	2700	2600	2710	2840	2630
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Gross Alpha (pCi/L)	GPS (15)	3.6	5.7	4.9	6.9	7.1	8.3	7.1	6.3	50.4	47	27.7	12	21.3	12.2	7	13.6
Iron (Fe)	GPS (0.6)	47.3	44.4	46.6	41.5	43.5	40.4	40.9	39.5	42.5	42.7	36.1	39	39.4	37	33.8	34.8
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.9	0.7	0.3	0.6	-0.3	-0.2	-0.08	0.5	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	0.14	1.2
Magnesium (Mg)		69.6	65.1	65.3	53.9	64.6	57	63.3	61.4	63.1	64.2	58.4	60	60.5	62.3	59.3	60.2
Manganese (Mn)	GPS (0.2)	4.23	3.62	3.82	3.74	3.79	3.76	3.52	3.43	3.61	3.72	3.58	3.32	3.41	3.34	3.27	3.25
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	6.7	6.76	6.76	6.66	6.75	6.78	6.55	6.88	6.79	6.95	6.83	6.92	6.86	6.91	6.86	6.88
pH (Field) (Std. Units)		6.77	6.6	6.6	6.88	6.8	6.9	6.8	7.26	7.17	6.81	6.64	6.52	6.86	6.78	6.26	6.73
Potassium (K)		7.5	7.2	7.7	6.8	7.3	7.1	7.2	6.7	7.2	7.3	8.2	7.2	6.7	7	7.1	6.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	19.9	25	32.7	22.7	24.1	24.1	20.2	33.6	25	30.1	22.7	23.9	17.6	20.3	21.6	18.6
Radium 226 (pCi/L)		4.4	4.6	3.8	3.9	3.7	4.7	3.6	4.3	6.7	5.7	6.5	3.5	3.5	5.9	3.2	3.5
Radium 228 (pCi/L)		15.5	20.4	28.9	18.8	20.4	19.4	16.6	29.3	18.3	24.4	16.2	20.4	14.1	14.4	18.4	15.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		18.7	17.8	18.6	17.8	18.5	20.1	17.7	17.7	18.2	18.1	19.3	17.5	18.1	18.1	17	17.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		97.4	97	99	82	96.7	83.7	95.9	91.9	95.3	96.5	84.7	93.3	91.5	95.5	91.4	94.9
TDS @ 180° C.	GPS (500)	2320	2290	2330	2280	2280	2270	2260	2190	2190	2190	2160	2120	2110	2080	2080	2040
Sulfate (SO4)		1300	1330	1270	1190	1240	1250	1240	1100	1230	1230	1140	1130	1150	1100	1100	1160
Temperature (C)		6.5	10.7	14	11.1	9.3	9.3	10.4	10.6	8	9.9	12.1	11.2	9.5	12.5	12.5	10.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.08	0.05	0.07	0.09	0.1	0.2	0.2	0.2	0.0008	0.05	0.1	0.02
Uranium, natural (pCi/L)	GPS (36)	6.3	7	7	7.8	7.7	8.5	8	7.7	8.3	7.3	8.5	8.2	8.4	8.4	8.5	8.9
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	<0.01	<0.01	<0.01	0.04	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

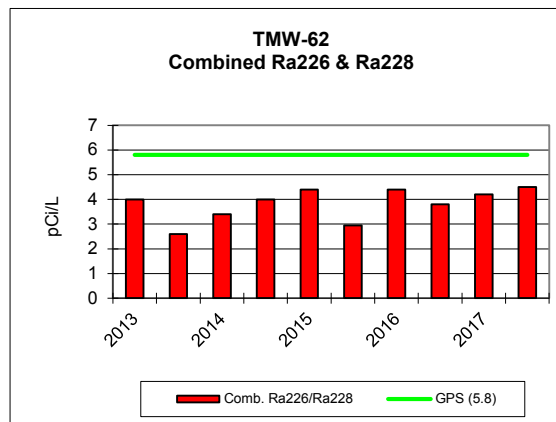
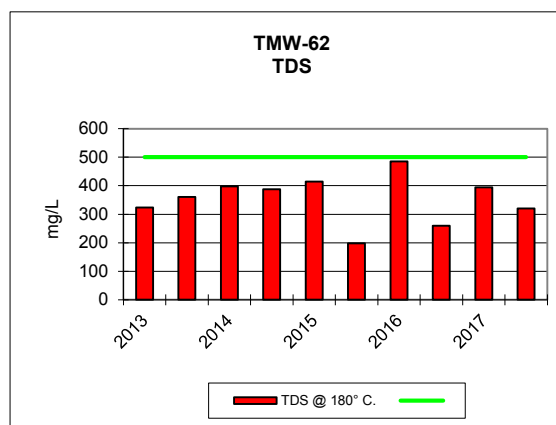
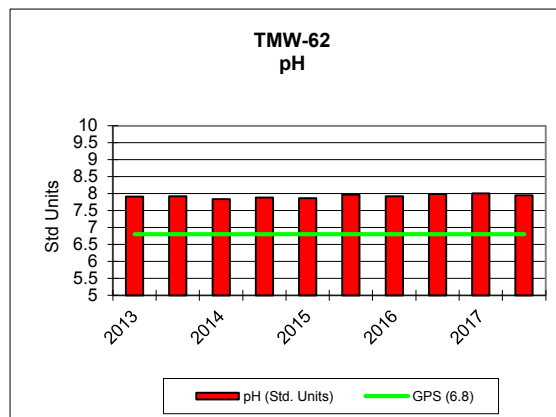
KENNECOTT URANIUM COMPANY					
TMW-59		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/11/2017	4/19/2017	7/31/2017	10/9/2017
TDS A/C Balance (dec. %)		1.39	4.09	1.53	6.69
Alk-CaCO3		261	249	221	267
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		319	304	251	326
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		426	393	393	365
Carbonate (CO3)		<1	<1	9	<1
Chloride (Cl)		72	72	65	71
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.006	0.005	0.004	0.007
Cond (umhos/cm)		2500	2110	2370	2340
Cond-Field (umhos/cm)		2670	2710	2500	2600
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.3	0.2	0.3	0.3
Gross Alpha (pCi/L)	GPS (15)	9.7	3.5	6.2	6
Iron (Fe)	GPS (0.6)	36.9	36.4	32	32.4
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.06	-0.08	-0.08	-5
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		57.6	56.3	55.3	53.9
Manganese (Mn)	GPS (0.2)	3.11	3.34	3.08	2.94
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.01	0.03	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	6.83	6.86	6.86	6.86
pH (Field) (Std. Units)		6.39	6.56	6.26	6.86
Potassium (K)		6.8	7	6.2	6.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.1	19.1	18.1	21.7
Radium 226 (pCi/L)		3	2.4	2.9	4.2
Radium 228 (pCi/L)		14.1	16.7	15.2	17.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	0.004
Silica (SiO2)		17.6	16.9	15.8	17.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		90.1	89	84.6	82.3
TDS @ 180° C.	GPS (500)	2050	2020	2020	2010
Sulfate (SO4)		1140	1140	1000	1090
Temperature (C)		9.7	11.5	14.2	11.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.09	0.07	-0.007	-0.008
Uranium, natural (pCi/L)	GPS (36)	8.3	8.8	8.3	9.2
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.05	<0.01	0.01	0.02



KENNECOTT URANIUM COMPANY											
TMW-61		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/4/2013	8/6/2013	2/11/2014	9/5/2014	3/17/2015	9/2/2015	3/29/2016	9/28/2016	3/14/2017	9/13/2017
TDS A/C Balance (dec. %)		2.57	1.46	1.77	1.98	0.43	1.1	0.43	2.3	4.66	1.37
Alk-CaCO3		167	167	165	169	157	161	159	166	156	163
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		204	204	202	206	191	197	194	202	190	199
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		209	224	196	216	192	218	207	212	207	209
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		21	25	24	29	25	27	27	28	30	28
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1220	1280	1200	1250	1150	1250	1200	1300	1270	1250
Cond-Field (umhos/cm)		1221	1280	1220	1289	2070	1295	1350	1395	1455	1451
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	3.5	4	5	4.2	6.8	16.1	7.5	7	9.4	3.1
Iron (Fe)	GPS (0.6)	<0.05	0.38	0.31	0.39	0.4	0.4	0.36	0.38	0.37	0.3
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	1.1	0.3	0.3	1.4	-0.08
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		12.2	13.2	11.4	12.5	11.3	12.8	12.3	12.8	12.4	12.3
Manganese (Mn)	GPS (0.2)	0.15	0.16	0.14	0.15	0.14	0.15	0.15	0.15	0.15	0.15
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.6	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.53	7.53	7.53	7.52	7.56	7.64	7.74	7.5	7.52	7.55
pH (Field) (Std. Units)		7.2	7.23	7	7.3	7.41	7.14	7.28	7.36	7.04	7.29
Potassium (K)		4.2	4.6	3.8	4.2	4.1	4.4	4	4.3	4.1	4.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	11.9	14.3	13.2	14.2	13.7	10.5	15.6	9.9	11.6	11.3
Radium 226 (pCi/L)		3.3	3.8	3.1	4.7	3.9	3.3	3.9	3	3.7	3.6
Radium 228 (pCi/L)		8.6	10.5	10.1	9.5	9.8	7.2	11.7	6.9	7.9	7.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		18.5	18.9	17.4	17.7	17.6	18.3	17.6	16.1	18	17.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		53.8	57.1	50.5	54.4	51.2	56.8	52.3	53.5	51.3	55.7
TDS @ 180° C.	GPS (500)	958	1000	924	975	871	965	942	987	953	941
Sulfate (SO4)		444	500	455	512	437	490	477	510	532	458
Temperature (C)		9.5	9.2	9	9.6	9.5	9.7	9	14.8	9	13.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.5	0.04	0.05	0.03
Uranium, natural (pCi/L)	GPS (36)	1.5	1.7	1.5	1.7	1.5	1.7	1.9	10.8	1.7	2.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

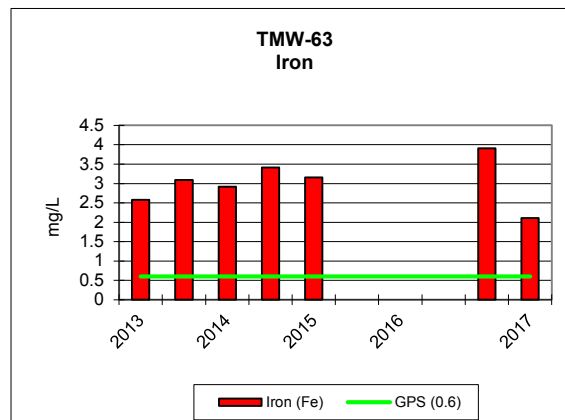
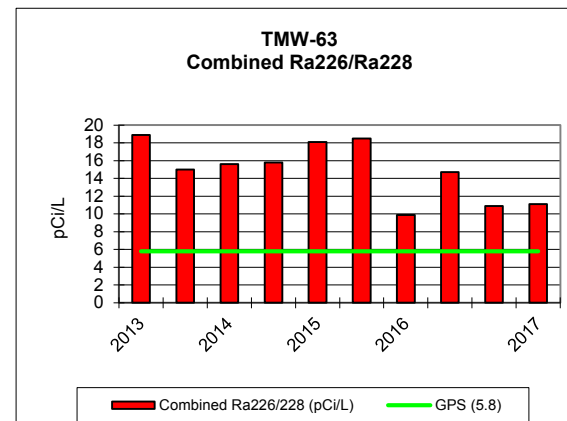
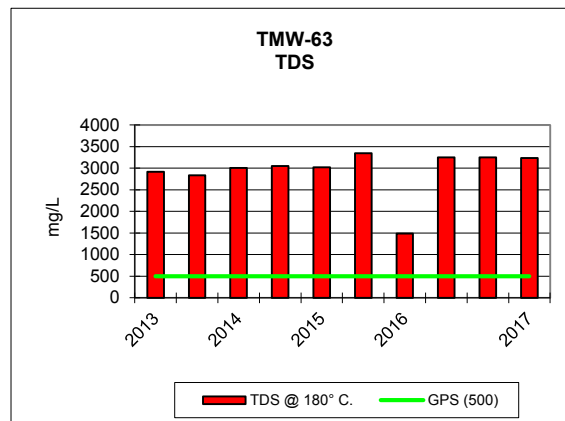
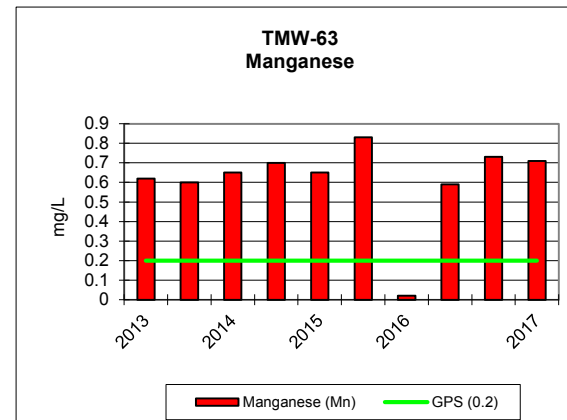
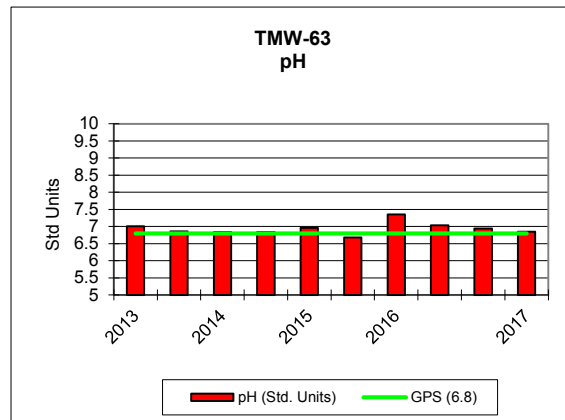


KENNECOTT URANIUM COMPANY											
TMW-62		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/22/2013	8/19/2013	5/19/2014	9/26/2014	5/11/2015	12/21/2015	5/4/2016	11/7/2016	5/3/2017	10/25/2017
TDS A/C Balance (dec. %)		-1.85	0.686	0.97	1.29	4.83	2.77	2.59	0.15	0.13	0.38
Alk-CaCO3		103	105	104	102	114	96	94	98	102	100
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		126	128	127	125	139	118	115	120	125	122
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		60.3	74.6	80.4	78.6	81.7	32.4	94.9	45.7	70.6	48.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	5	6	5	6	3	7	4	5	4
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		499	551	589	580	602	322	678	401	552	428
Cond-Field (umhos/cm)		575	597	656	644	376	346	772	479	697	645
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	0.5	0.9	1.5	2.2	3.6	6.9	4	1.9	1.1	1.2
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	1.1	-0.01
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.36	1.5	<0.01	<0.01
Magnesium (Mg)		5.1	6.6	7.1	7.1	6.2	2.9	8.6	3.9	5.9	4
Manganese (Mn)	GPS (0.2)	0.04	0.05	0.05	0.06	0.05	0.03	0.06	0.03	0.05	0.03
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.91	7.92	7.84	7.88	7.86	7.97	7.92	7.99	8.01	7.95
pH (Field) (Std. Units)		7.9	8.1	8.2	8.2	7.88	8.11	7.85	8.44	8.16	7.8
Potassium (K)		2.1	2.3	2.2	2.2	2	1.8	2.3	2	2.1	2.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	4	2.6	3.4	4	4.4	2.95	4.4	3.8	4.2	4.5
Radium 226 (pCi/L)		1.1	1.2	1.4	1.7	1.1	0.55	1.6	1	1.2	1
Radium 228 (pCi/L)		2.9	1.4	2	2.3	3.3	2.4	2.8	2.8	3	3.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.4	12	11.7	11.9	11.6	11.4	11.9	11.6	12.2	11.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		34	34.5	34.8	34.6	30.2	29.2	39.3	34.1	34.3	35.3
TDS @ 180° C.	GPS (500)	324	361	398	388	414	198	485	260	394	320
Sulfate (SO4)		141	168	194	193	197	65	229	99	162	106
Temperature (C)		9	12.6	9.8	10.9	10.4	8.3	9.3	11.6	10.7	9.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.06	0.1	0.1	-0.009
Uranium, natural (pCi/L)	GPS (36)	6.5	7	7.2	6.4	6.3	3.2	6.6	4.3	5.7	4.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

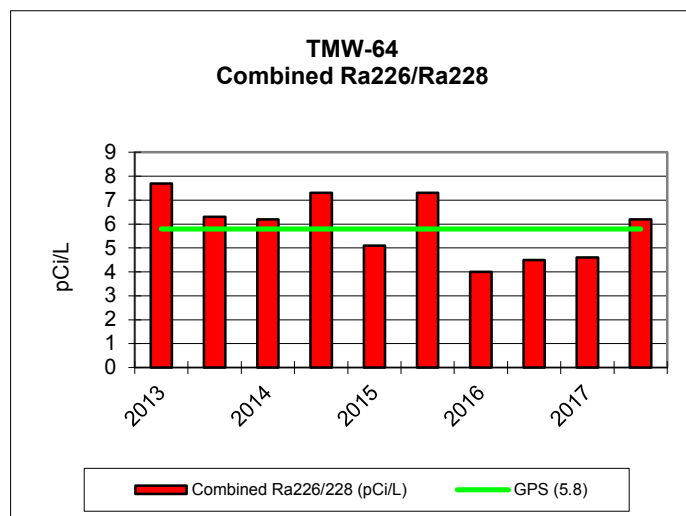
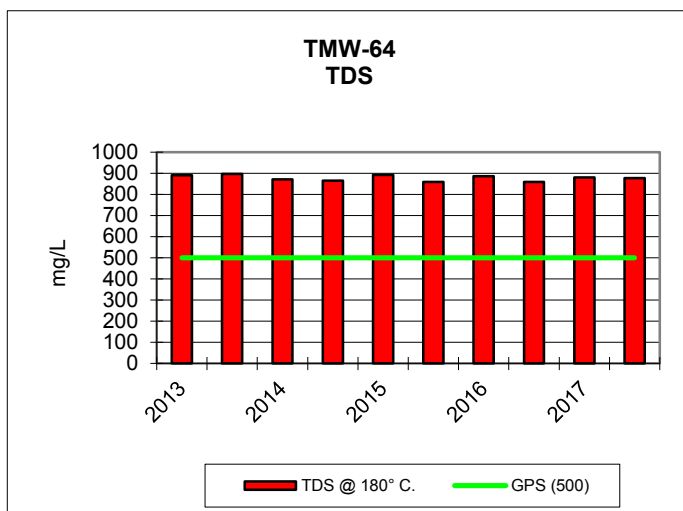
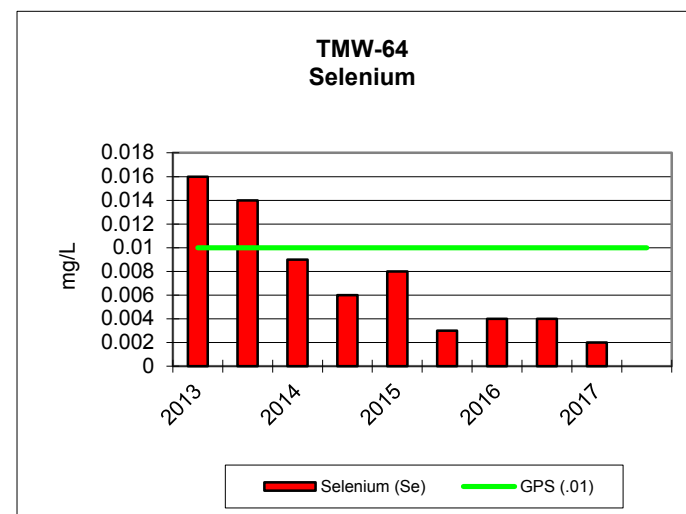
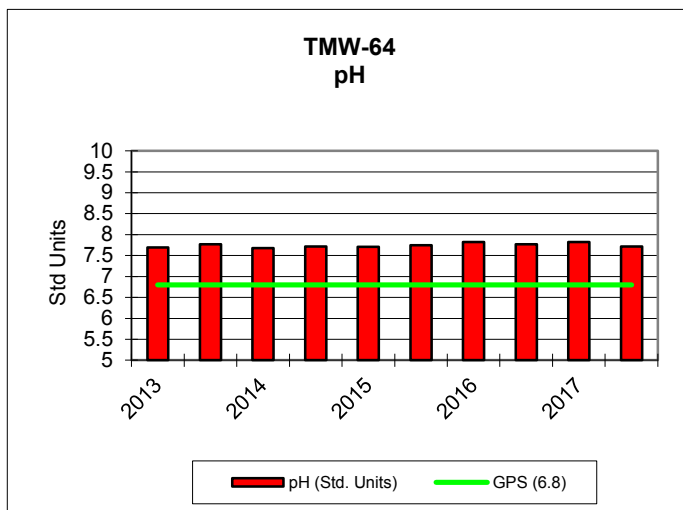


TMW-62

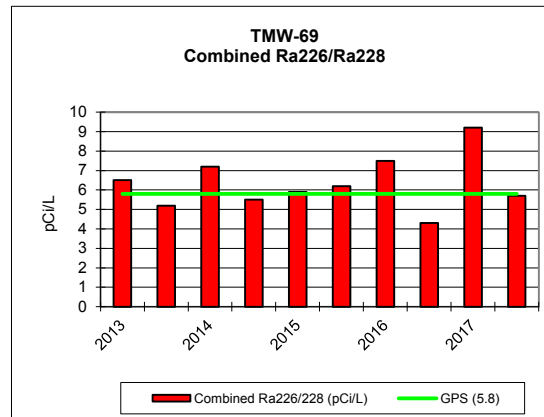
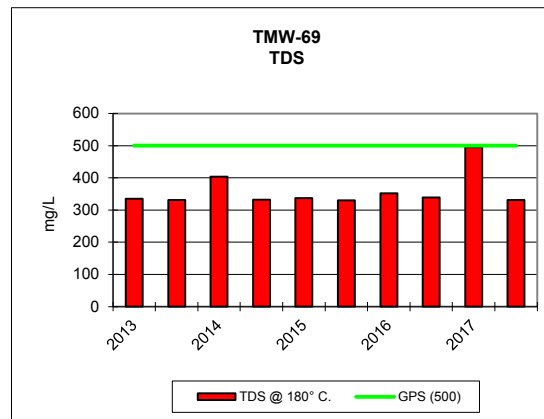
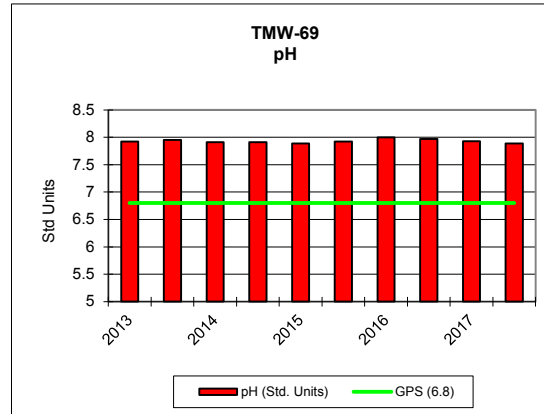
KENNECOTT URANIUM COMPANY												
TMW-63		2013		2014		2015		2016			2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/29/2013	8/20/2013	5/20/2014	9/26/2014	5/11/2015	12/21/2015	5/3/2016	8/30/2016	11/7/2016	5/3/2017	11/1/2017
TDS A/C Balance (dec. %)		-0.856	-1.48	2.69	2.71	3.65	4.8	0.62	2.5	0.51	0.05	4.86
Alk-CaCO3		513	514	507	526	476	676	89	678	631	573	644
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		626	627	619	642	581	825	109	827	769	699	785
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		692	673	693	722	708	799	339	758	779	752	720
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		146	130	167	172	170	239	82	221	213	215	233
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	0.002	0.002	0.001	0.001	0.002	<0.001	<0.001	0.001	<0.001	<0.001
Cond (umhos/cm)		3280	3100	3260	3400	3320	3690	1810	3690	3710	3540	3710
Cond-Field (umhos/cm)		3420	3360	1813	3350	3510	3600	1837	3930	4080	3960	4280
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	6.4	3.3	5.4	9.2	20.5	37.2	10.8	6.3	7.1	4.7	7.6
Iron (Fe)	GPS (0.6)	2.58	3.09	2.92	3.41	3.16	<0.05	<0.05	<0.05	3.91	2.11	0.75
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.05	0.4	1.1	0.2	0.6	<0.2	<0.2	<0.2	-1	0.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.3	0.2	0.9	<0.01	<0.01
Magnesium (Mg)		51.3	49.1	51.1	52.3	42.9	50	19.6	55	56.7	51	52
Manganese (Mn)	GPS (0.2)	0.62	0.6	0.65	0.7	0.65	0.83	0.02	0.59	0.73	0.71	0.49
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.01	6.86	6.84	6.84	6.96	6.68	7.35	7.03	6.94	6.85	6.84
pH (Field) (Std. Units)		6.7	6.7	6.8	6.6	6.52	6.83	7.28	6.38	6.57	6.43	6.67
Potassium (K)		7	6.8	7.2	7.3	7.1	7.3	4.3	8	8.2	7.5	8.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	18.9	15	15.6	15.8	18.1	18.5	9.9	14.7	10.9	11.1	10.1
Radium 226 (pCi/L)		4.3	2.7	3.8	4.9	3.2	4.5	6.2	2.9	3.4	2.6	3.7
Radium 228 (pCi/L)		14.6	12.3	11.8	10.9	14.9	14	3.7	11.8	7.5	8.5	6.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001
Silica (SiO2)		22.2	22.1	20.5	21.3	20.5	23.1	9.9	22.9	23.6	23.2	20.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		110	107	113	115	92.6	112	67.4	128	131	119	126
TDS @ 180° C.	GPS (500)	2920	2840	3010	3050	3020	3350	1490	3250	3250	3240	3260
Sulfate (SO4)		1450	1430	1510	1570	1540	1620	826	1480	1460	1420	1500
Temperature (C)		18.2	15.2	13	13	12.5	9.9	13.6	14.8	9.8	12.7	8.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	0.02	0.02	0.02	0.03	0.03	0.007	0.2	0.06	0.02
Uranium, natural (pCi/L)	GPS (36)	7.2	1.7	2.3	1.3	1.5	3	878	2	1.9	2.3	2.2
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.2	0.02	0.03	0.01	<0.01	0.03	0.01	0.02	<0.01	0.03	0.02



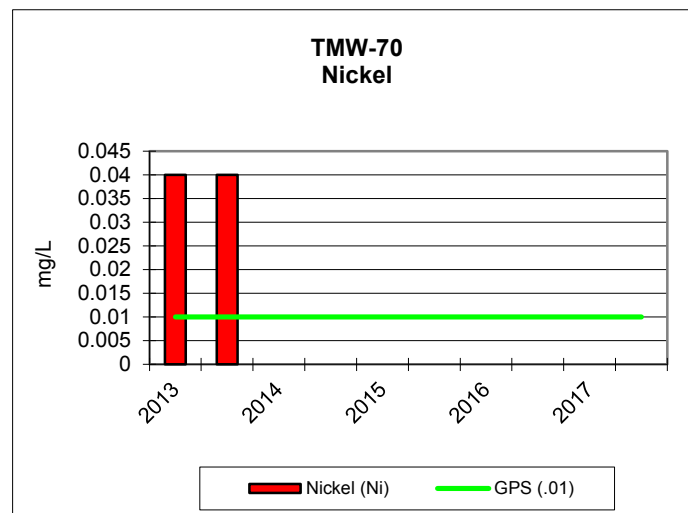
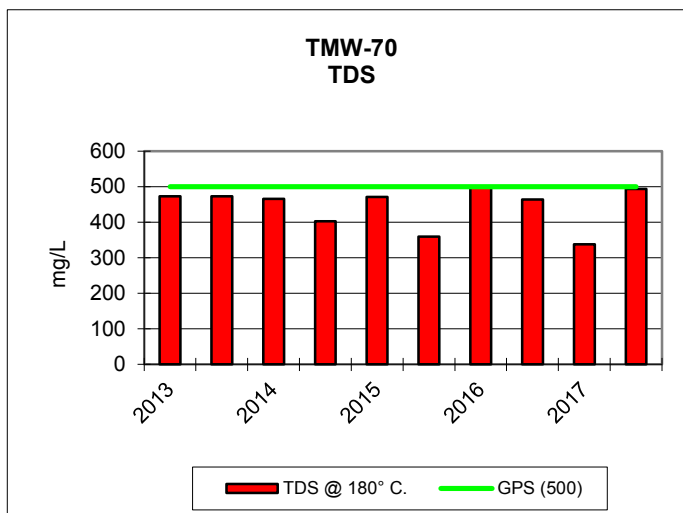
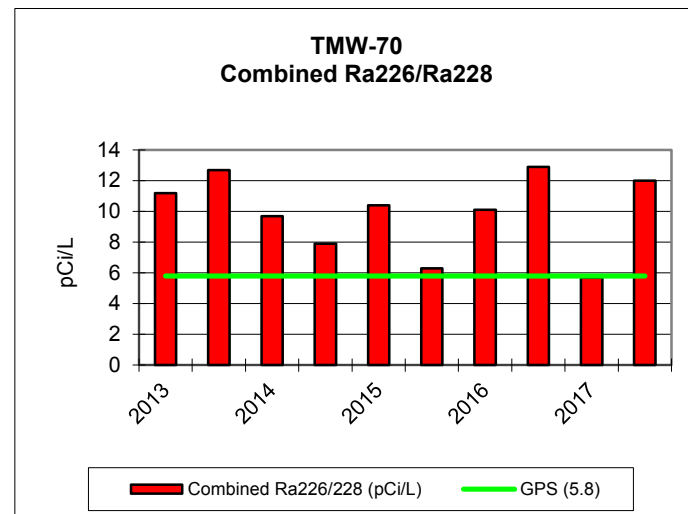
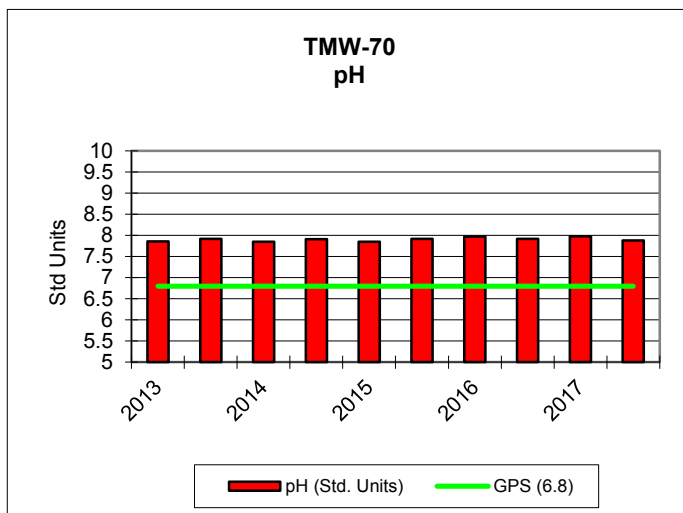
KENNECOTT URANIUM COMPANY											
TMW-64		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/5/2013	5/6/2014	9/26/2014	5/11/2015	12/20/2015	5/3/2016	11/2/2016	5/3/2017	10/25/2017
TDS A/C Balance (dec. %)		-3.31	3.01	1.91	3.05	4.53	3.46	1.71	0	2.15	0.61
Alk-CaCO3		70	69	71	82	71	75	66	72	71	74
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		85	84	87	100	87	92	81	88	87	90
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		172	186	178	180	183	170	169	177	183	169
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		34	30	32	33	34	35	36	32	36	33
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1180	1150	1120	1150	1150	1140	1150	1130	1130	1150
Cond-Field (umhos/cm)		1233	1272	1261	1184	1269	1198	1295	1251	1292	1355
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1
Gross Alpha (pCi/L)	GPS (15)	2.3	3.1	3.9	4.5	6	10.1	5.1	5.1	2.5	2.7
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.8	0.2	0.4	0.5	0.9	0.7	<1	<1	-0.6	0.3
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.5	0.7	<0.01	<0.01
Magnesium (Mg)		15.4	16	15.1	15.3	11.9	14.6	14.7	15.4	15.8	14.7
Manganese (Mn)	GPS (0.2)	<0.01	0.01	0.04	0.04	0.04	ND	0.02	0.03	0.04	0.02
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.69	7.77	7.68	7.72	7.71	7.75	7.82	7.77	7.82	7.72
pH (Field) (Std. Units)		7.6	7.1	8.1	7.9	7.53	7.76	7.77	7.77	8	7.6
Potassium (K)		3.7	4.3	3.8	3.9	3.8	3.8	3.8	4	4	3.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.7	6.3	6.2	7.3	5.1	7.3	4	4.5	4.6	6.2
Radium 226 (pCi/L)		2.4	1.6	2.2	2.9	1.8	1.8	1.9	2	2.2	2
Radium 228 (pCi/L)		5.3	4.7	4	4.4	3.3	5.5	2.1	2.5	2.4	4.2
Selenium (Se)	GPS (.01)	0.016	0.014	0.009	0.006	0.008	0.003	0.004	0.004	0.002	<0.001
Silica (SiO2)		8.6	9.5	8.9	9.3	9.2	8.4	8.4	9.6	9.8	9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		51.7	55.4	50.9	52.4	40.2	50.7	50.2	52.7	55.4	51.4
TDS @ 180° C.	GPS (500)	891	898	871	866	893	859	886	860	880	877
Sulfate (SO4)		512	486	508	520	514	498	480	478	477	465
Temperature (C)		9.9	13.1	10.1	9.4	9.1	8.5	9.4	9.7	9.7	9.8
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.02	0.04	0.05	0.03
Uranium, natural (pCi/L)	GPS (36)	16.5	15.2	12.2	12.8	12.1	11.3	12.6	11.9	10.9	12.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03



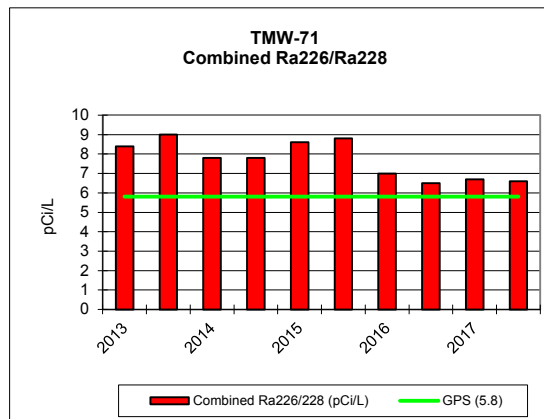
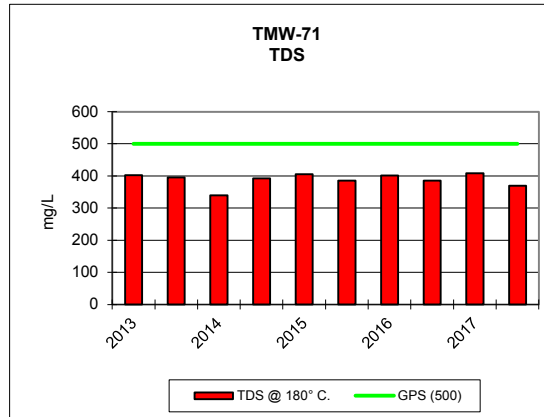
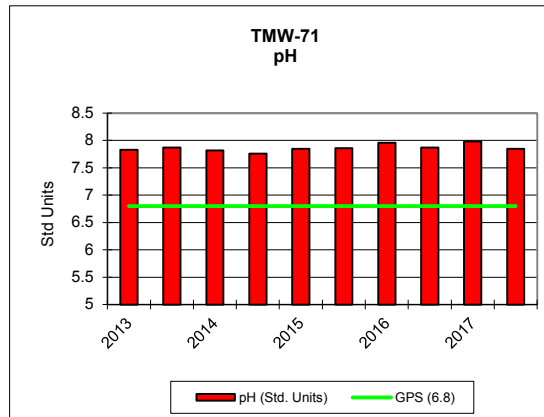
KENNECOTT URANIUM COMPANY											
TMW-69		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/19/2013	4/22/2014	9/19/2014	5/11/2015	12/16/2015	5/4/2016	11/2/2016	5/8/2017	11/1/2017
TDS A/C Balance (dec. %)		-2.96	0.0118	0.44	1.49	3.58	3.13	3.6	3.15	1.53	4.38
Alk-CaCO3		107	109	108	108	106	127	96	122	86	109
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		131	133	132	132	129	155	118	149	105	133
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		63.9	67.8	67.9	65.6	68.4	67.5	67.6	66.4	96.7	59
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		6	6	6	6	6	6	6	6	13	6
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		511	506	500	504	506	496	501	495	718	501
Cond-Field (umhos/cm)		562	551	558	525	490	504	555	554	543	595
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2
Gross Alpha (pCi/L)	GPS (15)	1.6	1.6	2.2	2.1	6.1	4.3	4.5	5.6	4.1	3.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.3	0.4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	4.1	0.9	<0.01	<0.01
Magnesium (Mg)		4	4.1	4.2	3.9	3.3	4	4.1	4.1	5.9	3.6
Manganese (Mn)	GPS (0.2)	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.03
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.92	7.95	7.91	7.91	7.89	7.92	8	7.97	7.93	7.89
pH (Field) (Std. Units)		7.4	7.8	8.3	8.1	7.86	7.95	8.03	8.55	8.19	7.91
Potassium (K)		2.5	2.7	2.8	2.7	2.5	2.8	2.7	2.7	2.9	2.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.5	5.2	7.2	5.5	5.9	6.2	7.5	4.3	9.2	5.7
Radium 226 (pCi/L)		1.5	1.1	1.8	1.4	1.6	1.5	1.5	1.2	3.4	1.7
Radium 228 (pCi/L)		5	4.1	5.4	4.1	4.3	4.7	6	3.1	5.8	4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.3	14.2	14	13.5	14	14.2	14.4	14.2	12.7	12.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		32.2	33	34	31.8	26.2	33.6	33.6	33.6	37.3	32.9
TDS @ 180° C.	GPS (500)	335	331	404	332	337	330	352	339	495	331
Sulfate (SO4)		142	138	144	138	143	137	133	139	246	136
Temperature (C)		9.5	12.8	10.1	10.2	9.2	8.2	9.2	9.9	10	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	-0.02	0.06	0.1	0.07
Uranium, natural (pCi/L)	GPS (36)	3.9	3.7	3.7	4.1	3.6	3.2	3.6	3.9	3.9	4.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01



KENNECOTT URANIUM COMPANY											
TMW-70		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/22/2013	8/19/2013	4/22/2014	9/19/2014	5/11/2015	12/16/2015	5/4/2016	11/2/2016	5/8/2017	10/25/2017
TDS A/C Balance (dec. %)		-2.77	0.811	0.18	1.5	2.32	0.74	1.7	0.61	-2.81	1.82
Alk-CaCO3		88	90	89	98	87	102	80	91	103	98
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		108	110	108	119	107	125	98	111	126	120
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		92	99.2	97.9	80.1	95.4	71.8	90.5	92.8	62.2	89.2
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		12	11	12	9	11	7	11	10	6	11
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		691	688	671	597	668	530	684	652	506	677
Cond-Field (umhos/cm)		752	744	737	614	745	566	624	680	772	772
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	5	4.9	3.6	3.9	6.6	5.4	9.4	9.3	1.7	5.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.1	<0.05	0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-1	1.1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.69	1.1	<0.01	<0.01
Magnesium (Mg)		5.7	6	6	4.8	4.9	4.3	5.5	5.6	3.9	5.4
Manganese (Mn)	GPS (0.2)	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.03	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.04	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.86	7.92	7.85	7.91	7.85	7.92	7.97	7.92	7.98	7.88
pH (Field) (Std. Units)		7.9	7.8	8.3	9.7	7.87	7.97	8.05	8.65	7.29	7.88
Potassium (K)		2.8	3.1	3.3	2.9	2.9	2.7	2.8	3	2.4	3
Combined Ra226/228 (pCi/L)	GPS (5.8)	11.2	12.7	9.7	7.9	10.4	6.3	10.1	12.9	5.7	12
Radium 226 (pCi/L)		4.6	4.9	4.6	3.4	3.9	3.1	3.5	4	2.4	3.5
Radium 228 (pCi/L)		6.6	7.8	5.1	4.5	6.5	3.2	6.6	8.9	3.3	8.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.1	13.3	13.3	13.1	13.1	14.6	12.6	14	13.4	13.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		37.7	39	40.4	35.1	32.6	36.3	36.9	39.4	30.8	38.4
TDS @ 180° C.	GPS (500)	473	473	466	403	471	360	499	464	338	494
Sulfate (SO4)		243	239	246	191	236	157	238	225	137	222
Temperature (C)		9.4	13	10.1	8.2	9.4	8.3	9.2	10.6	10.60	9.00
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.3	<0.2	0.06	0.1	0.04	0.07
Uranium, natural (pCi/L)	GPS (36)	3.7	3.8	3.5	3.9	3.4	2.5	3.2	4	4	3.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.16



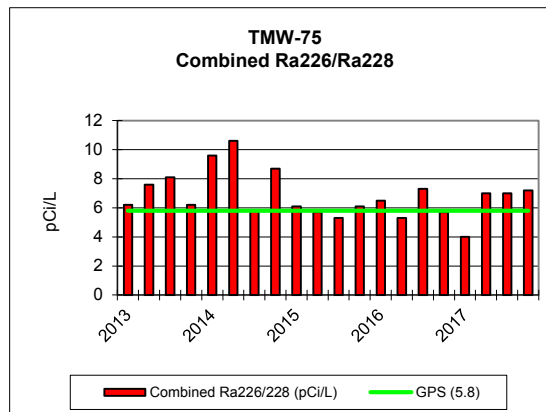
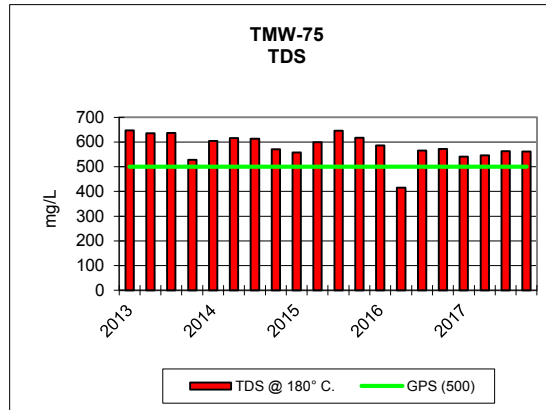
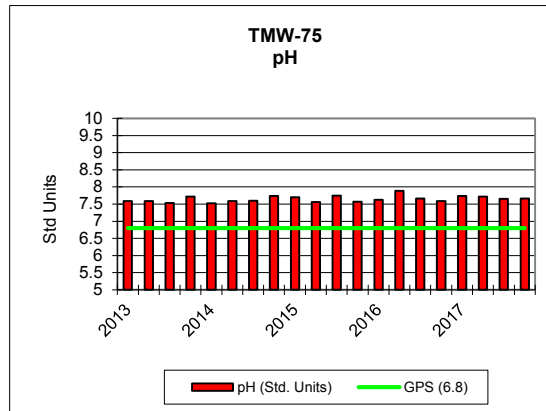
KENNECOTT URANIUM COMPANY											
TMW-71		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/22/2013	8/19/2013	4/22/2014	9/19/2014	5/12/2015	12/20/2015	5/4/2016	11/2/2016	5/3/2017	11/1/2017
TDS A/C Balance (dec. %)		-3.24	0.251	0.97	1.5	1.12	2.34	3.54	0.63	4.07	4.41
Alk-CaCO3		131	121	122	120	120	133	107	117	115	117
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		160	148	145	147	146	163	130	142	140	143
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		82	84.9	85	82	83.3	83.2	82.1	79.4	85.9	69.4
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	5	5	5	5	5	5	5	5	5
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		598	590	580	581	605	570	565	549	563	554
Cond-Field (umhos/cm)		662	630	648	606	595	614	630	643	700	696
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3	3.1	3.6	3.5	8.6	10.2	5.8	5.1	2.1	4.7
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.6	0.8
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.99	1	<0.01	<0.01
Magnesium (Mg)		5	5.1	5.2	4.8	4.9	5	5	4.9	5.2	4.1
Manganese (Mn)	GPS (0.2)	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.83	7.87	7.82	7.76	7.85	7.86	7.96	7.87	7.98	7.85
pH (Field) (Std. Units)		7.8	7.6	8.2	8.1	7.52	7.85	7.92	8.19	8.43	7.75
Potassium (K)		2.7	2.9	3	3	2.9	2.9	2.9	2.9	3.1	3
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.4	9	7.8	7.8	8.6	8.8	7	6.5	6.7	6.6
Radium 226 (pCi/L)		3.2	3	3.5	2.8	3	2.3	3.2	2.6	3.1	2.7
Radium 228 (pCi/L)		5.2	6	4.3	5	5.6	6.5	3.8	3.9	3.6	3.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.1	15.2	14.7	14.5	15	14.3	15.2	15.3	16.3	13.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		32.7	33.9	33.8	32	32.9	33	33.1	32.4	35.6	32.5
TDS @ 180° C.	GPS (500)	402	395	340	392	405	385	401	385	408	369
Sulfate (SO4)		174	173	180	172	163	171	160	159	162	159
Temperature (C)		8.7	12.5	12.1	9.9	10	8.3	9.1	9.2	9.5	8.8
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.07	0.02	0.02	0.07
Uranium, natural (pCi/L)	GPS (36)	4.8	4.5	4.6	4.6	4.2	4.9	3.9	4.2	3.9	3.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01



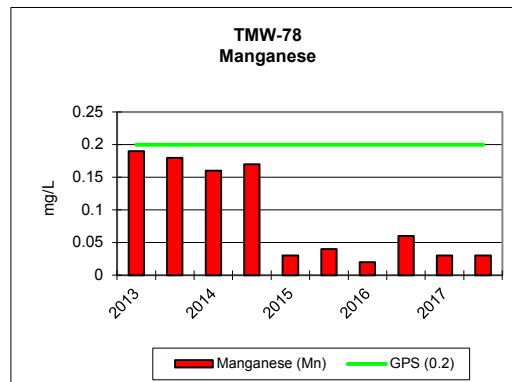
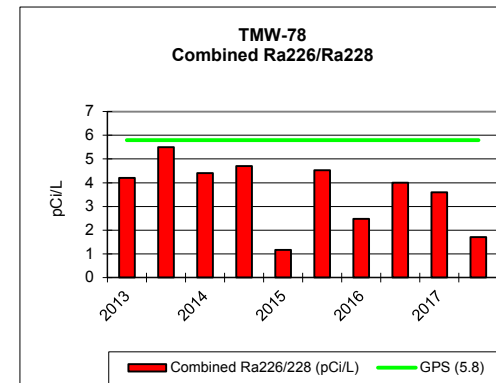
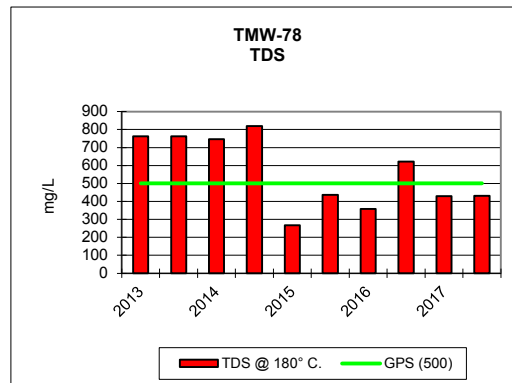
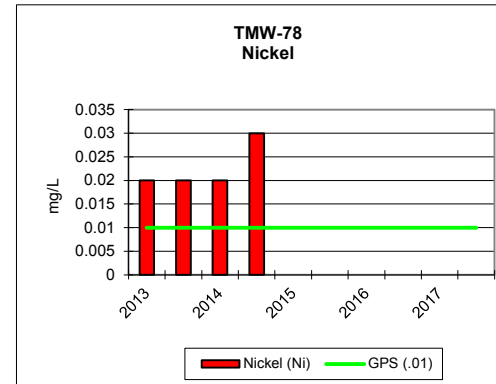
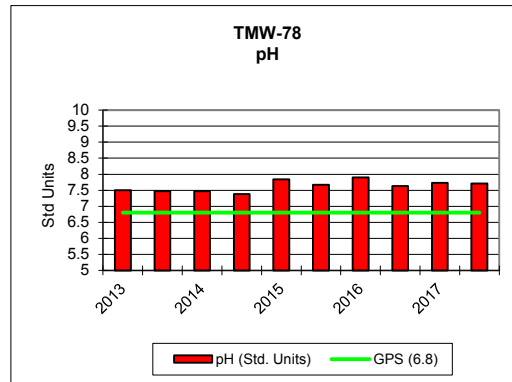
TMW-71

KENNECOTT URANIUM COMPANY		2013		2014		2015		2016									
TMW-75																	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/15/2013	4/2/2013	7/9/2013	10/1/2013	1/18/2014	4/1/2014	7/1/2014	10/14/2014	1/14/2015	4/21/2015	7/13/2015	11/2/2015	1/5/2016	4/18/2016	7/7/2016	10/3/2016
TDS A/C Balance (dec. %)		4.85	-4.11	1.43	-2.47	-0.456	2.55	1.38	0.12	0.12	4.12	2	0.7	1.01	15.8	1.47	3.41
Alk-CaCO3		134	132	132	123	128	129	127	127	126	132	137	134	133	110	128	145
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		163	161	161	150	156	157	154	155	154	161	167	163	162	139	156	177
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		155	124	138	104	125	131	127	117	118	127	127	126	123	119	118	117
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		19	19	19	13	17	17	16	16	17	19	20	19	18	9	18	17
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		884	897	906	735	853	864	846	814	820	858	886	849	815	604	757	822
Cond-Field (umhos/cm)		958	980	958	804	817	959	825	848	887	895	913	869	851	877	979	886
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	1.3	2.3	1.1	2.1	2.4	2.7	1.9	2.1	9.5	10.3	4.7	3.6	4.8	5.8	3	4.4
Iron (Fe)	GPS (0.6)	<0.05	0.19	0.18	<0.05	0.13	0.2	0.15	0.14	0.13	0.18	0.17	0.21	0.19	0.21	0.12	0.19
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.007	0.6	0.05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.1	0.14	1.3	0.3
Magnesium (Mg)		11.9	10	10.8	7.2	9.7	10.3	9.5	8.7	8.7	9.8	10.1	10.1	9.8	9.4	8.9	9.6
Manganese (Mn)	GPS (0.2)	0.13	0.1	0.12	0.08	0.1	0.1	0.11	0.09	0.09	0.1	0.12	0.11	0.11	0.11	0.11	0.11
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.59	7.59	7.53	7.72	7.52	7.59	7.6	7.74	7.7	7.56	7.75	7.57	7.63	7.89	7.66	7.59
pH (Field) (Std. Units)		7.5	6.9	7.6	7.63	7.7	7.7	7.8	7.49	8.49	7.33	7.04	7.33	7.46	7.37	6.83	7.32
Potassium (K)		3.5	2.9	3.6	3	3.1	3.4	3.5	3	3.4	3.2	3.4	3.5	3.1	3.1	3.2	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.2	7.6	8.1	6.2	9.6	10.6	5.8	8.7	6.1	5.7	5.3	6.1	6.5	5.3	7.3	5.7
Radium 226 (pCi/L)		1.8	1.4	1.4	1.3	1.2	2	1.5	2.2	2	1.8	1.1	1.1	1.4	1.3	1.2	1.2
Radium 228 (pCi/L)		4.4	6.2	6.7	4.9	8.4	8.6	4.3	6.5	4.1	3.9	4.2	5	5.1	4	6.1	4.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		17.3	13.7	14.8	14.5	14.1	14.9	14.6	14.4	15	14.4	16.2	14.4	14.7	14.7	13.9	13.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		45.3	43.1	48	38.6	42.7	46.7	45.8	42.1	44.7	45.5	45.2	45.3	44.1	44	42.8	45.4
TDS @ 180° C.	GPS (500)	647	635	637	528	605	616	614	571	558	599	646	617	587	416	566	572
Sulfate (SO4)		316	315	313	245	289	287	286	263	271	254	302	281	286	185	252	285
Temperature (C)		6.7	8.5	15.8	11.1	7.5	8.5	16	12.2	8	11.3	11.8	11.8	8.3	9	11.1	11.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	-0.02	0.07	-0.03	-0.01
Uranium, natural (pCi/L)	GPS (36)	15.1	16	17.1	10.7	15	13.7	13.4	13.9	12.2	14.3	13.5	13.5	12.2	11.6	11.3	11.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

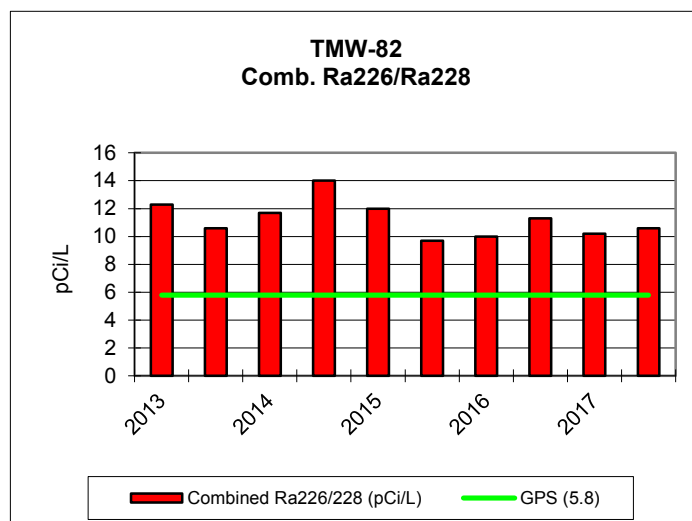
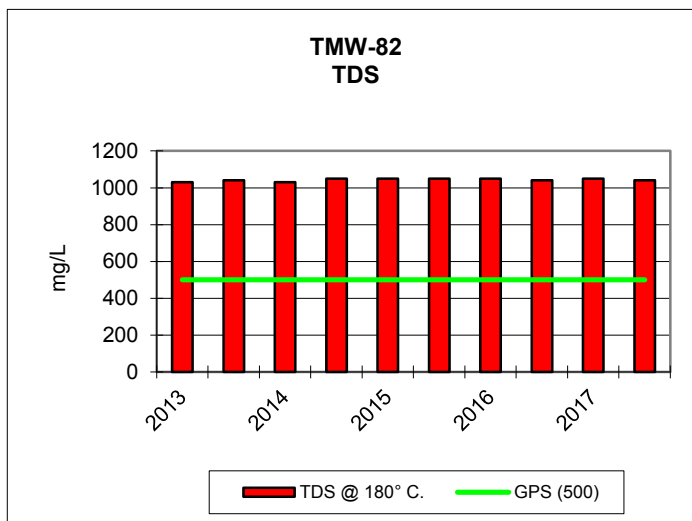
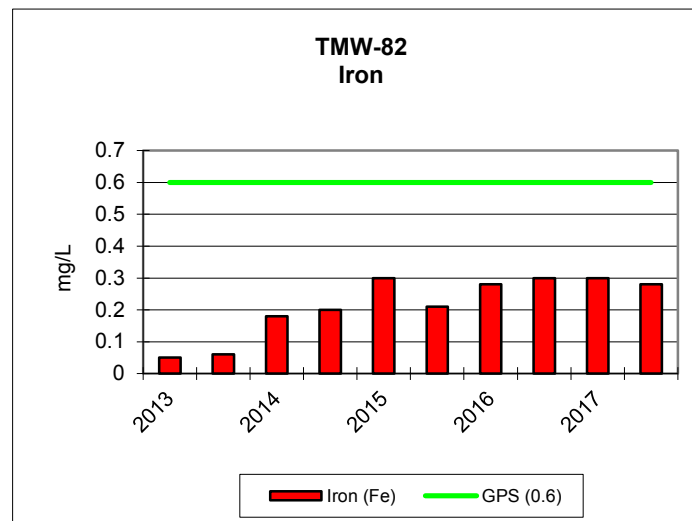
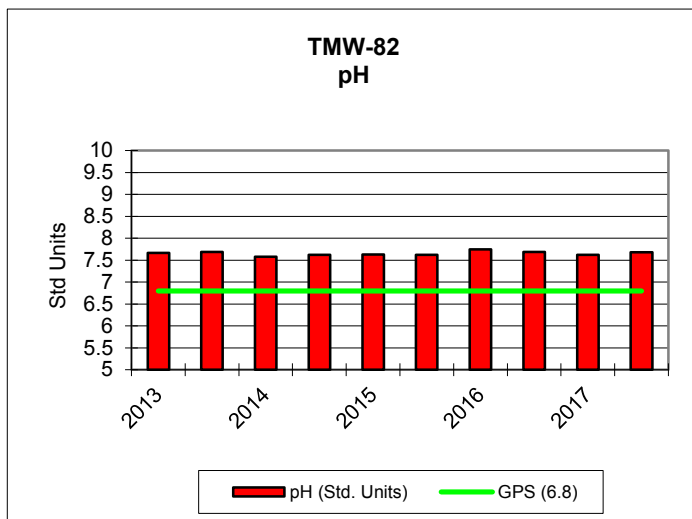
KENNECOTT URANIUM COMPANY					
TMW-75		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/11/2017	4/19/2017	7/31/2017	10/24/2017
TDS A/C Balance (dec. %)		2.43	2.53	2.64	0.1
Alk-CaCO3		123	120	119	123
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		150	146	133	150
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		109	107	104	111
Carbonate (CO3)		<1	<1	6	<1
Chloride (Cl)		15	16	15	14
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		809	802	799	791
Cond-Field (umhos/cm)		820	830	906	869
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.1	1.1	2.5	2.3
Iron (Fe)	GPS (0.6)	0.2	0.15	0.2	0.15
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.1	0.9	-0.4	0.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8.6	8.3	8.2	8.8
Manganese (Mn)	GPS (0.2)	0.09	0.09	0.1	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.74	7.72	7.65	7.66
pH (Field) (Std. Units)		7.03	6.77	6.74	7.81
Potassium (K)		3.1	3.2	2.9	3.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	4	7	7	7.2
Radium 226 (pCi/L)		1.1	1.1	1.3	2
Radium 228 (pCi/L)		2.9	5.9	5.7	5.2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.3	14.8	13.1	14.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		43	42.3	38.6	43
TDS @ 180° C.	GPS (500)	541	546	563	562
Sulfate (SO4)		269	266	252	256
Temperature (C)		7.6	10.3	12.6	10
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	0.08	0.03	0.05
Uranium, natural (pCi/L)	GPS (36)	9.6	10.5	10.6	9.1
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.05	<0.01	<0.01



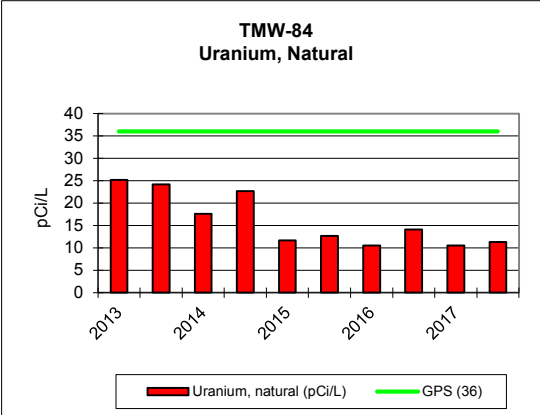
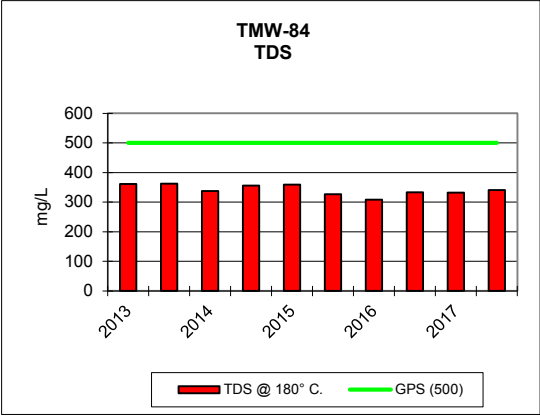
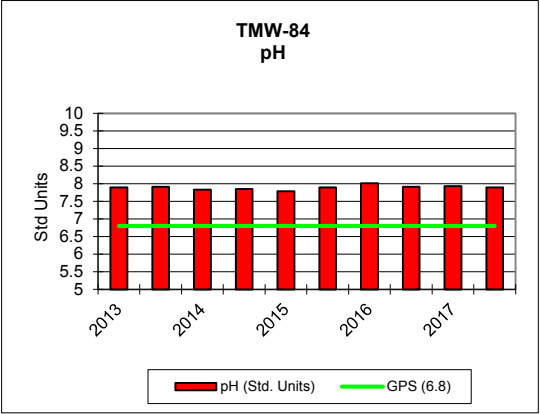
KENNECOTT URANIUM COMPANY											
TMW-78		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/19/2013	5/20/2014	9/19/2014	5/12/2015	12/20/2015	5/10/2016	11/8/2016	5/9/2017	11/6/2017
TDS A/C Balance (dec. %)		-3.64	-0.231	0.51	1.74	0.47	3.04		0	0.54	0.7
Alk-CaCO3		87	88	86	85	101	97	97	90	90	96
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		106	108	105	104	123	118	119	109	110	117
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		145	159	152	172	46.6	82.8	64.4	127	85.5	85.3
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		11	11	11	13	4	7	6	9	7	7
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.009	0.009	0.009	0.01	0.001	0.002	<0.001	0.003	0.001	0.001
Cond (umhos/cm)		1020	999	964	1080	395		531	857	621	641
Cond-Field (umhos/cm)		1076	1042	858	1145	425	703	599	1428	1555	1597
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	1.6	1.5	1.4	1.7	2.8	2.2	1.2	2.8	1.2	1.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.92	0.4	<0.01	<0.01
Magnesium (Mg)		18.1	18.7	17.6	19.7	5	9.1	6.8	14.1	9.1	9.3
Manganese (Mn)	GPS (0.2)	0.19	0.18	0.16	0.17	0.03	0.04	0.02	0.06	0.03	0.03
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.02	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.5	7.47	7.47	7.38	7.84	7.67	7.9	7.63	7.73	7.71
pH Field (Std Units)		7.3	7.3	6.8	7.3	7.69	7.62	7.72	7.4	6.84	6.94
Potassium (K)		3.6	4	3.8	4.3	2.4	2.8	2.3	3.5	2.9	2.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.2	5.5	4.4	4.7	1.16	4.53	2.47	4	3.6	1.7
Radium 226 (pCi/L)		1.8	1.6	1.7	2	0.46	0.83	0.97	1.2	0.8	1
Radium 228 (pCi/L)		2.4	3.9	2.7	2.7	0.7	3.7	1.5	2.8	2.8	0.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.2	11.8	11.7	10.8	13.2	11.8	12.1	11.8	11.2	12.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		36.4	38.1	38.3	38.6	30	31.9	29.4	36.2	33.5	32.9
TDS @ 180° C.	GPS (500)	763	762	746	820	267	437	358	622	429	432
Sulfate (SO4)		440	442	416	497	92	221	164	342	214	217
Temperature (C)		9.6	13.4	13	9.8	9.5	8.7	8.6	10.7	9.7	10.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	0.3	<0.2	-0.02	0.1	0.06	-0.002
Uranium, natural (pCi/L)	GPS (36)	9.2	11.3	10.8	13.9	10.7	9.2	9.4	9.9	7.2	6.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



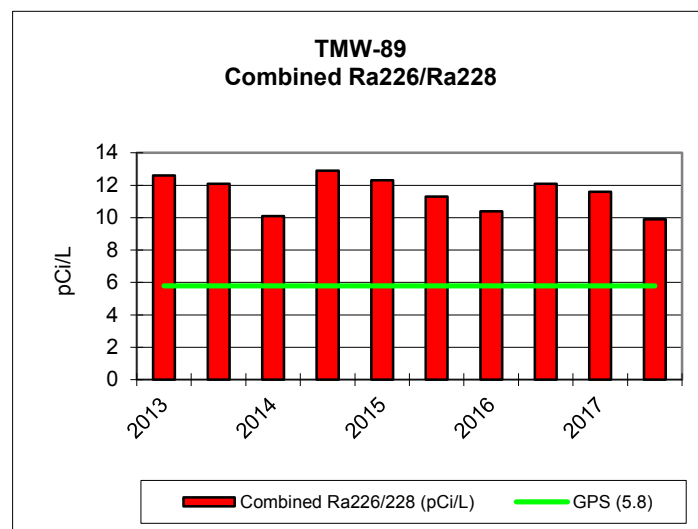
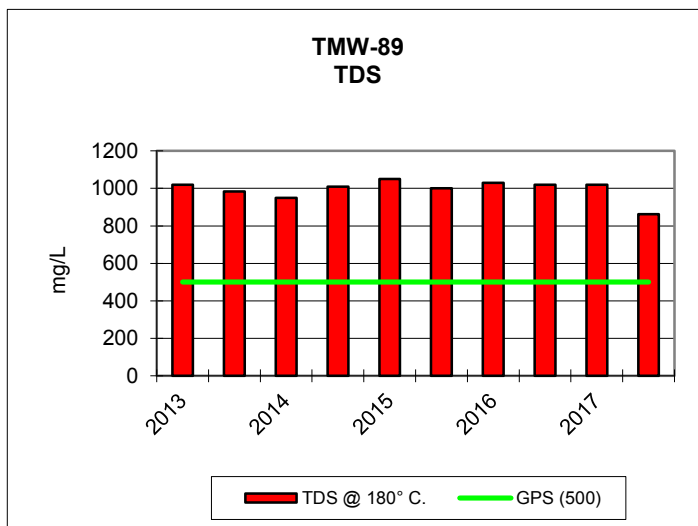
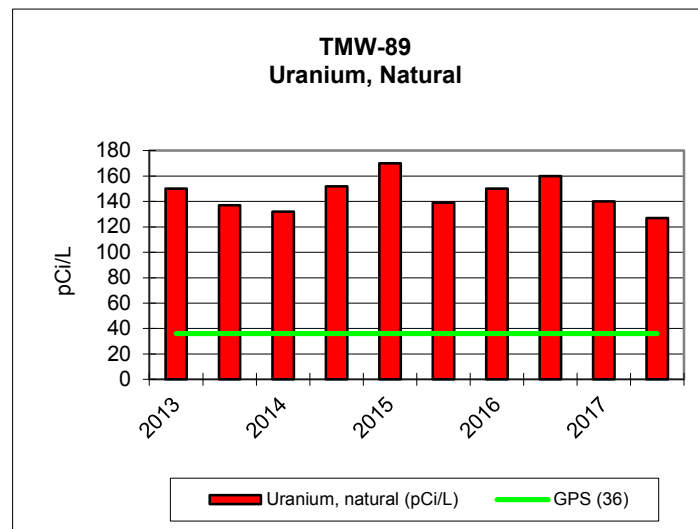
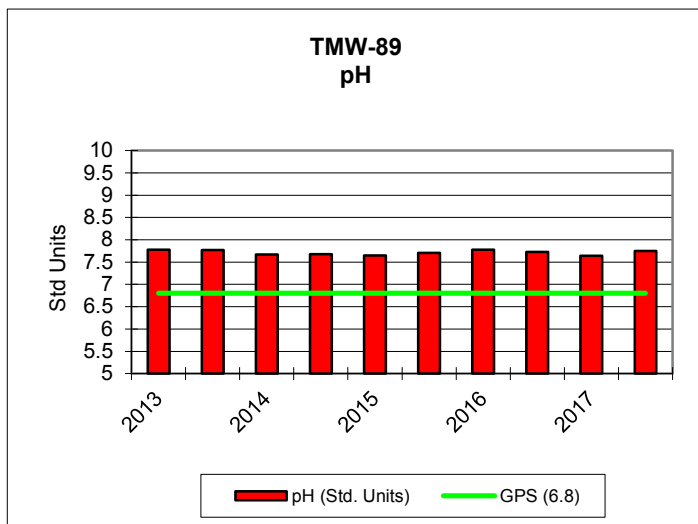
KENNECOTT URANIUM COMPANY											
TMW-82		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/6/2013	5/6/2014	8/12/2014	5/12/2015	12/20/2015	5/10/2016	11/8/2016	5/9/2017	11/6/2017
TDS A/C Balance (dec. %)		-2.65	2.99	0.17	1.79	0.97	3.58	1.48	1.15	1.19	0.81
Alk-CaCO3		97	96	96	96	98	99	98	98	93	97
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		119	117	117	117	120	121	119	119	114	118
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		212	226	220	215	224	211	224	221	216	210
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		23	22	23	24	22	23	21	22	23	21
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1320	1290	1270	1300	1300	1310	1290	1310	1310	1320
Cond-Field (umhos/cm)		1363	1402	1399	1297	686	874	1429	1373	1430	1246
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	5.4	2.5	6.4	3.1	10.8	10.8	3.1	2.6	1.9	5.2
Iron (Fe)	GPS (0.6)	0.05	0.06	0.18	0.2	0.3	0.21	0.28	0.3	0.3	0.28
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.1	1.2	-0.09	0.2	<1	<1	-0.7	0.6
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.72	0.9	<0.01	<0.01
Magnesium (Mg)		18.3	19.6	18.9	18.7	19.2	18.6	19.8	19.9	18.6	18.2
Manganese (Mn)	GPS (0.2)	0.1	0.11	0.1	0.1	0.11	0.1	0.1	0.1	0.1	0.1
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.69	7.58	7.62	7.63	7.62	7.75	7.69	7.62	7.68
pH (Field) (Std. Units)		7.6	7.6	8	8	7.49	7.64	7.66	7.87	6.94	7.59
Potassium (K)		4.1	4.5	4.4	4.4	4.2	4.1	4.1	4.5	4.1	5.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.3	10.6	11.7	14	12	9.7	10	11.3	10.2	10.6
Radium 226 (pCi/L)		2.6	2.2	2.4	2.6	2.4	1.9	2.2	1.9	2.6	3
Radium 228 (pCi/L)		9.7	8.4	9.3	11.4	9.6	7.8	7.8	9.4	7.6	7.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.2	13.7	13.3	13.8	13.4	12.2	13.4	13.5	13.1	12.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		50.2	55.6	53.5	54.6	53.2	51.7	54	55.2	52.2	53.9
TDS @ 180° C.	GPS (500)	1030	1040	1030	1050	1050	1050	1050	1040	1050	1040
Sulfate (SO4)		603	575	600	611	591	617	590	621	600	584
Temperature (C)		8.8	11.5	10.4	9.9	8.7	8.3	8.3	9.5	10.5	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.04	0.2	0.2	0.05
Uranium, natural (pCi/L)	GPS (36)	5	4.8	4.4	4.9	5	4.4	6.9	5.2	5.2	4.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



KENNECOTT URANIUM COMPANY											
TMW-84		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/6/2013	5/6/2014	9/19/2014	5/13/2015	12/20/2015	5/10/2016	11/8/2016	5/1/2017	11/6/2017
TDS A/C Balance (dec. %)		-3.27	3.14	0.17	3.08	1.71	0.61	6.79	1.18	1.97	3.64
Alk-CaCO3		108	104	106	108	103	108	105	105	105	105
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.034	0.033	0.027	0.031	0.019	0.021	0.017	0.02	0.016	0.018
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		132	127	129	131	126	132	128	128	128	128
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		70.3	77.6	70.2	70.7	74.8	67.6	53.6	70.4	67.7	63.5
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		8	8	8	9	9	8	7	9	8	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		559	550	512	544	534	500	467	540	501	516
Cond-Field (umhos/cm)		627	658	636	590	591	545	524	692	697	726
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1
Gross Alpha (pCi/L)	GPS (15)	2.1	1.1	1.5	1.4	3.1	3.2	1.2	2.3	2	1.8
Iron (Fe)	GPS (0.6)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead (Pb210) (pCi/L)	GPS (8.9)	<0.005	<0.005	0.03	<0.005	0.6	<0.005	<0.006	<0.007	-0.9	0.7
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.59	0.9	<0.01	<0.01
Magnesium (Mg)		4.6	5	4.7	4.5	4.7	4.3	3.5	4.5	4.3	4
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.9	7.92	7.83	7.85	7.79	7.9	8.02	7.92	7.93	7.9
pH (Field) (Std. Units)		7.9	7.8	8.4	7.9	7.8	7.91	8.03	8.19	8.51	7.83
Potassium (K)		3.2	3.4	3.1	3.1	2.8	3.1	2.5	3	3.1	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.9	2.8	3.1	3.1	4.2	3.91	3.12	2.11	3.5	3
Radium 226 (pCi/L)		1.2	0.8	1.1	1.2	1	0.81	0.82	0.91	1.1	1.5
Radium 228 (pCi/L)		1.7	2	2	1.9	3.2	3.1	2.3	1.2	2.4	1.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		9.8	10.4	10.8	10	12.2	11.4	10.5	10.9	13.4	11.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		31.4	36.2	33.5	31.7	35.4	34.5	28.9	33.3	35.4	31.5
TDS @ 180° C.	GPS (500)	361	362	337	356	359	327	308	333	332	341
Sulfate (SO4)		158	157	148	158	155	138	125	153	135	143
Temperature (C)		9.4	13.2	10	9.7	9.2	8.5	8.6	9.5	10.4	8.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	0.5	<0.2	0.03	0.05	0.04	0.02
Uranium, natural (pCi/L)	GPS (36)	25.2	24.2	17.6	22.7	11.7	12.7	10.5	14.1	10.5	11.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

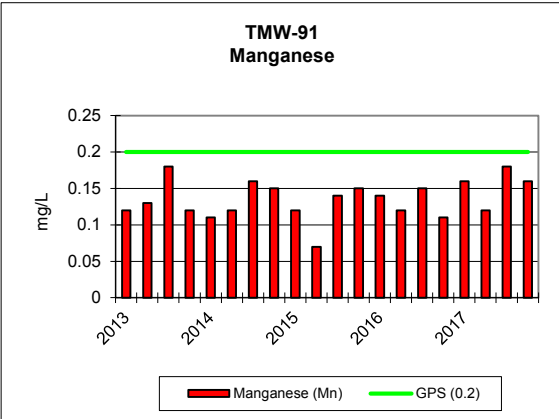
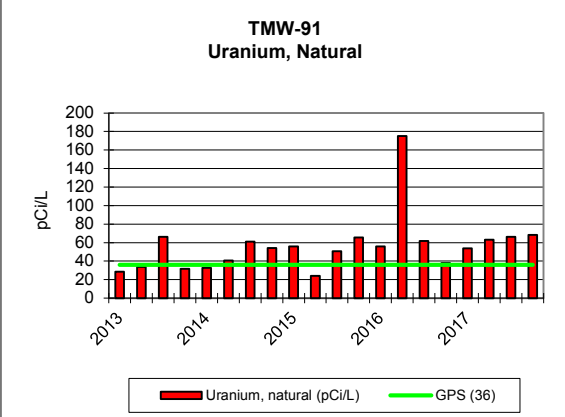
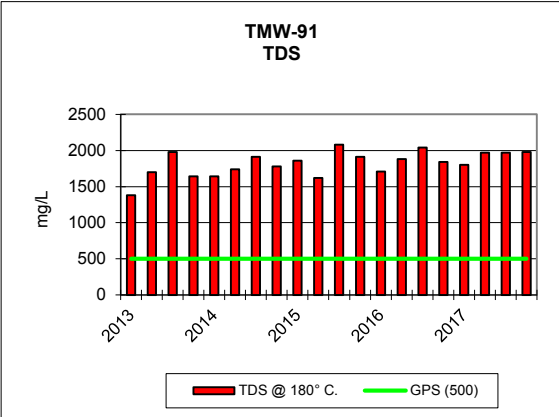
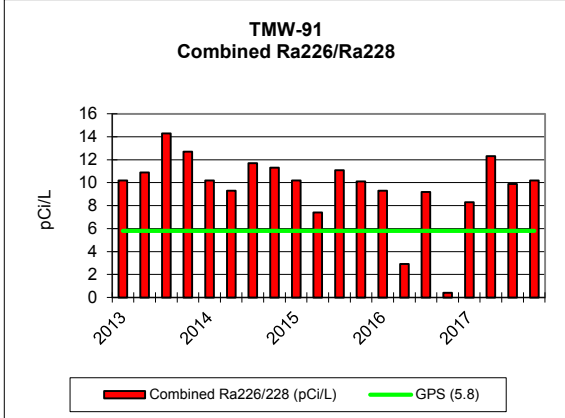
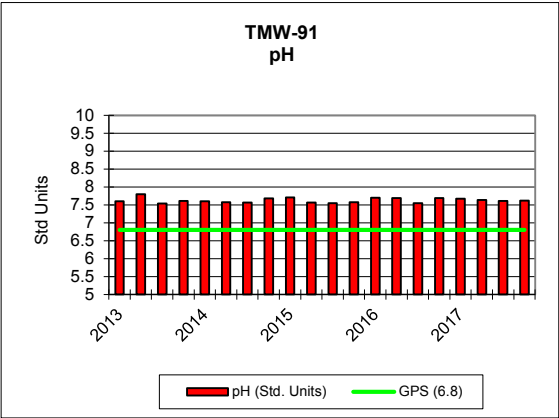


KENNECOTT URANIUM COMPANY											
TMW-89		2013		2014		2015		2016		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	4/23/2013	8/6/2013	5/6/2014	9/16/2014	5/12/2015	12/20/2015	5/10/2016	11/8/2016	5/1/2017	11/6/2017
TDS A/C Balance (dec. %)		-3.58	0.294	1.6	1.5	0.99	0.1	0.63	1.1	2.77	0.89
Alk-CaCO3		84	98	86	88	92	88	85	85	87	92
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		103	119	105	107	113	107	104	104	106	112
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		206	210	204	214	222	217	212	219	213	182
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		19	18	18	23	18	18	17	19	19	15
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002	<0.001
Cond (umhos/cm)		1310	1230	1190	1270	1290	1270	1280	1320	1290	1150
Cond-Field (umhos/cm)		1325	1334	1165	1286	1350	1362	1421	1386	1415	1291
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.2	0.1	0.1	<0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	6.1	4.9	8	7.9	9.9	17.1	6.3	14.3	4.4	5.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	1.5	<1	<1	<1	<1	<1	-1	1.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.95	0.8	<0.01	<0.01
Magnesium (Mg)		18.5	19.2	18.7	19.4	21.1	20.3	20	20.8	20.2	17
Manganese (Mn)	GPS (0.2)	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.78	7.77	7.67	7.68	7.65	7.71	7.78	7.73	7.64	7.75
pH (Field) (Std. Units)		7.7	7.6	8	7.9	7.6	7.71	7.8	8.39	8.11	7.55
Potassium (K)		5.1	5.3	5.3	5.1	5.3	5.1	4.8	5.4	5.3	4.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.6	12.1	10.1	12.9	12.3	11.3	10.4	12.1	11.6	9.9
Radium 226 (pCi/L)		5.1	4.3	4.2	5.4	4.4	4.5	4.3	4.3	4.5	4.8
Radium 228 (pCi/L)		7.5	7.8	5.9	7.5	7.9	6.8	6.1	7.8	7.1	5.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		6.4	7.1	7	6.7	5.6	6.8	6.2	6.4	7.2	7.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		46.6	51.5	51.1	50.8	52.1	51.7	50	52.6	52.8	50.5
TDS @ 180° C.	GPS (500)	1020	983	949	1010	1050	1000	1030	1020	1020	862
Sulfate (SO4)		613	569	590	608	602	603	602	632	560	495
Temperature (C)		9.8	13	9.7	10.3	9.3	8.4	8.7	11.3	9.5	8.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	0.2	<0.2	<0.2	0.2	<0.2	0.09	0.1	0.2	0.09
Uranium, natural (pCi/L)	GPS (36)	150	137	132	152	170	139	150	160	140	127
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03



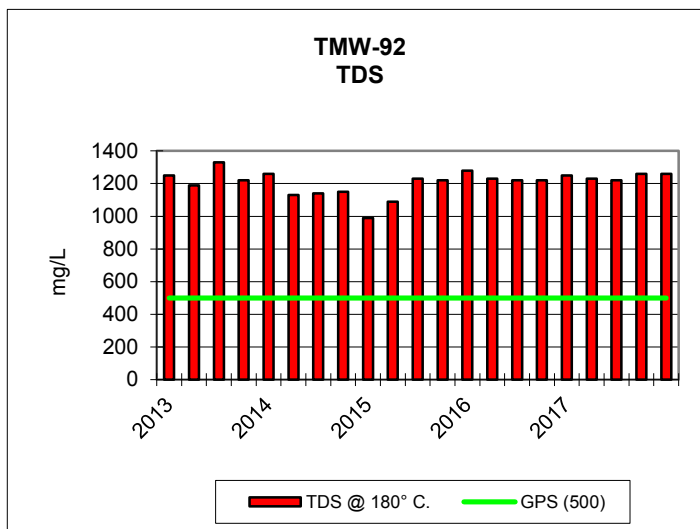
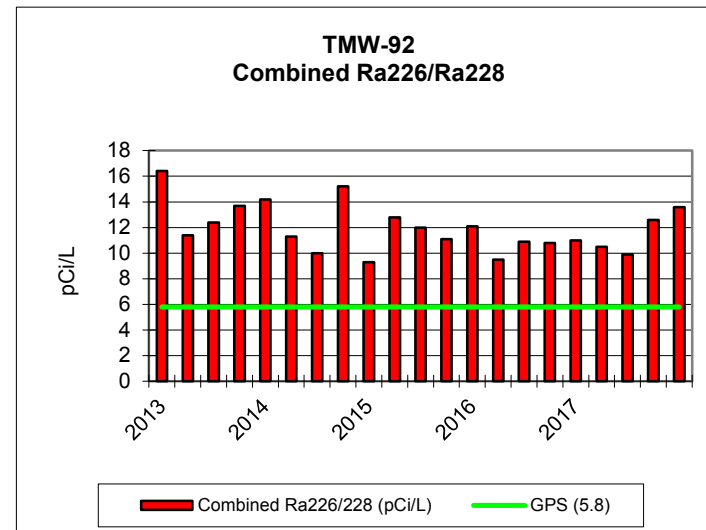
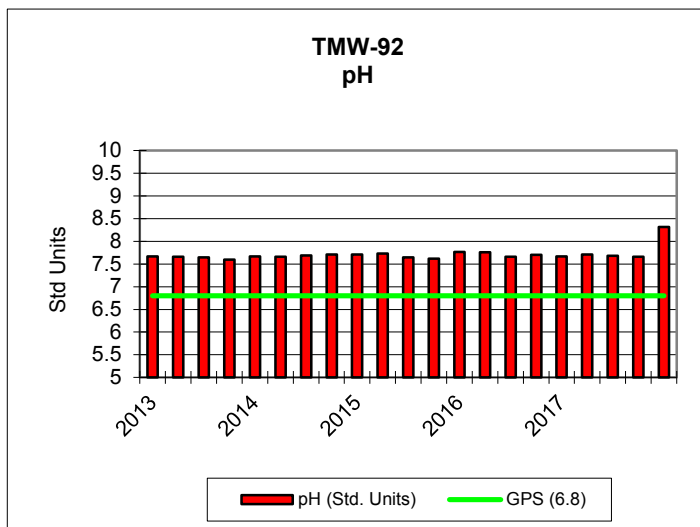
KENNECOTT URANIUM COMPANY																		
TMW-91		2013				2014				2015				2016				
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	4/29/2013	7/23/2013	10/21/2013	1/27/2014	4/22/2014	7/22/2014	10/28/2014	1/26/2015	4/28/2015	7/21/2015	12/1/2015	2/16/2016	4/13/2016	7/26/2016	10/12/2016	
TDS A/C Balance (dec. %)		5.05	-1.42	2.88	2.75	0	0.21	2.85	0.37	0.91	1.3	3.9	1.9	4.65	0.05	1.97	2.23	
Alk-CaCO3		106	115	113	112	111	110	111	111	111	106	110	101	106	102	113	111	
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bicarbonate (HCO3)		130	140	138	137	135	134	135	135	135	129	134	123	130	125	138	135	
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Calcium (Ca)		330	370	449	357	359	389	444	394	398	335	420	436	428	395	462	391	
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloride (Cl)		52	73	83	61	68	74	84	77	80	68	95	88	77	86	93	82	
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	
Cond (umhos/cm)		1650	2060	2210	1880	1930	1990	2200	2100	2130	1930	2350	2220	1990	2110	2370	2180	
Cond-Field (umhos/cm)		2160	2260	2520	2310	2260	2190	2500	2160	2260	1868	2380	2500	2500	2300	2720	2390	
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Fluoride (F)		0.1	<0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.2	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	
Gross Alpha (pCi/L)	GPS (15)	3.1	3.1	4.3	2.2	3.5	3.6	5.6	4.4	6.4	5.2	9.9	8.5	3.1	9.8		4.2	
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	0.08	
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.2	0	1	-0.07	
Magnesium (Mg)		25.8	29.3	35.3	28.6	28.9	30.2	35.6	31.5	30.9	26.2	32.5	35.9	34.9	32.8	35.9	31	
Manganese (Mn)	GPS (0.2)	0.12	0.13	0.18	0.12	0.11	0.12	0.16	0.15	0.12	0.07	0.14	0.15	0.14	0.12	0.15	0.11	
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0004	0.0003	0.0004	0.0003	
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
pH (Std. Units)	GPS (6.8)	7.6	7.8	7.54	7.61	7.6	7.58	7.57	7.68	7.71	7.57	7.55	7.58	7.7	7.69	7.55	7.69	
pH (Field) (Std. Units)		7.4	8	7.53	7.9	8.2	7.4	7.1	7.56	8.05	7.52	7.24	7.55	7.39	7.5	6.96	7.69	
Potassium (K)		5.3	5.3	5.8	5.6	5.1	5.8	6.2	6	5.8	5.7	5.3	6.1	5.7	5.7	5.9	5.6	
Combined Ra226/228 (pCi/L)	GPS (5.8)	10.2	10.9	14.3	12.7	10.2	9.3	11.7	11.3	10.2	7.4	11.1	10.1	9.3	2.91	9.2	0.4	
Radium 226 (pCi/L)		2.1	3.3	2.9	3.1	2.2	2.5	2.7	2.6	2.9	2.2	3	3.1	2.9	0.51	2.5	2.4	
Radium 228 (pCi/L)		8.1	7.6	11.4	9.6	8	6.8	9	8.7	7.3	5.2	8.1	7	6.4	2.4	6.7	-2	
Selenium (Se)	GPS (.01)	0.002	<0.001	0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002	<0.001	0.002	
Silica (SiO2)		10.1	10.3	9.6	11.2	9.8	10.5	10	9.6	9.2	10.1	10.7	9.5	8.8	9.3	10.1	10.7	
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sodium (Na)		71.2	76.1	88.6	74.2	78	82.1	90.6	84.9	86.6	75.9	88.1	92	71.7	91.6	94.8	82.1	
TDS @ 180° C.	GPS (500)	1380	1700	1980	1640	1640	1740	1910	1780	1860	1620	2080	1910	1710	1880	2040	1840	
Sulfate (SO4)		775	992	1110	879	946	1020	1100	1030	1070	906	1200	1120	997	1060	1160	1080	
Temperature (C)		9.3	10.1	10.9	12.8	6.1	11.2	12	10.3	9.6	10.6	10.6	7.8	8.7	13.9	14.6	10.3	
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Thorium 230 (pCi/L)		0.03	0.05	0.04	0.03	0.03	0.03	0.1	0.1	0.05	0.04	0.1	0.02	-0.004	0.04	-0.03	0.07	
Uranium, natural (pCi/L)	GPS (36)	28.4	33.6	66.1	31.7	32.6	40.8	60.9	54	55.9	24.1	50.6	65.4	56	175	61.8	38	
Vanadium (V205)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc (ZN)		0.04	0.04	0.01	0.05	0.04	0.03	0.04	0.08	0.11	0.14	0.03	0.06	0.09	0.17	0.04	0.07	

KENNECOTT URANIUM COMPANY					
TMW-91		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/21/2017	4/3/2017	7/12/2017	10/16/2017
TDS A/C Balance (dec. %)		2.63	4.22	3.34	0.07
Alk-CaCO3		107	110	113	115
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		131	134	138	140
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		413	397	433	444
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		79	88	86	91
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2190	2320	2390	2390
Cond-Field (umhos/cm)		2270	2310	2540	2470
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	2.6	6.2	4.8	3.3
Iron (Fe)	GPS (0.6)	0.08	0.07	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	1.4	2.2	1	0.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		33.4	33.1	36	37
Manganese (Mn)	GPS (0.2)	0.16	0.12	0.18	0.16
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.64	7.61	7.62
pH (Field) (Std. Units)		6.65	7.24	6.88	7.46
Potassium (K)		5.5	6.2	6.2	6.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.3	12.3	9.9	10.2
Radium 226 (pCi/L)		2	2.2	2.6	3.2
Radium 228 (pCi/L)		6.3	10.1	7.3	7
Selenium (Se)	GPS (.01)	0.002	<0.001	<0.001	<0.001
Silica (SiO2)		9.5	8.4	10.7	8.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		89.9	83.6	92.6	92
TDS @ 180° C.	GPS (500)	1800	1970	1970	1980
Sulfate (SO4)		1040	1150	1070	1180
Temperature (C)		14.4	11.9	11.1	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.03	0.1	0.1	0.2
Uranium, natural (pCi/L)	GPS (36)	53.9	63	66.1	68.3
Vanadium (V205)		<0.01	<0.01	<0.01	<0.01
Zinc (ZN)		0.09	0.15	0.07	0.02



KENNECOTT URANIUM COMPANY																	
TMW-92		2013		2014		2015		2016									
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/29/2013	6/11/2013	9/10/2013	10/29/2013	1/27/2014	5/20/2014	7/22/2014	11/11/2014	3/23/2015	6/1/2015	9/14/2015	12/14/2015	3/8/2016	6/20/2016	10/10/2016	11/14/2016
TDS A/C Balance (dec. %)		1.65	2.06	-0.537	1.43	1.73	1.02	1.72	0.84	1.62	0.11	0.52	1.68	1.91	0.07	2.87	0.56
Alk-CaCO3		104	98	105	103	104	107	108	103	107	107	100	101	98	116	106	108
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		126	120	128	126	127	130	132	126	130	131	123	124	119	141	129	132
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		284	264	279	272	282	245	260	259	247	235	271	270	275	273	257	263
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		39	33	36	34	40	32	30	34	30	28	33	35	39		35	33
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1530	1450	1540	1500	1530	1380	1430	1480	1370	1350	1560	1510	1550	1500	1520	1550
Cond-Field (umhos/cm)		1546	1509	1652	1548	1671	1495	1099	1525	2500	804	799	1613	1735	1620	1636	1637
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	<0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	5.2	4.5	3.8	5.8	5.6	3.9	5.9	4.6	15.2	24.7	8.9	9.7	13.4	2.7	8.2	12
Iron (Fe)	GPS (0.6)	<0.05	0.12	0.16	0.11	<0.05	<0.05	<0.05	0.05	0.16	0.15	0.12	0.17	0.09	0.13	0.11	0.18
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.2	0.57	0.2	0.4
Magnesium (Mg)		20.2	17.9	18.3	19.6	19.6	16.8	17.3	17.5	16.4	16.1	18.7	18.8	18.9	19	18.1	18.6
Manganese (Mn)	GPS (0.2)	0.19	0.19	0.19	0.18	0.2	0.16	0.17	0.17	0.16	0.15	0.17	0.19	0.17	0.17	0.16	0.17
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.66	7.65	7.6	7.67	7.66	7.69	7.71	7.71	7.73	7.65	7.62	7.77	7.76	7.66	7.7
pH (Field) (Std. Units)		7.67	7.7	7	7.8	7.7	8.7	7.9	7.64	7.69	7.63	7.67	7.73	7.26	6.36	7.68	7.83
Potassium (K)		4.8	4.6	4.7	4.7	4.4	4.4	4.5	4.8	4.6	4.6	4.6	4.6	4.6	4.5	4.6	4.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	16.4	11.4	12.4	13.7	14.2	11.3	10	15.2	9.3	12.8	12	11.1	12.1	9.5	10.9	10.8
Radium 226 (pCi/L)		3.3	2.9	3	3.5	3.4	3.6	2.7	4.6	3.1	3.3	4	3.3	3.3	3	3.3	2.7
Radium 228 (pCi/L)		13.1	8.5	9.4	10.2	10.8	7.7	7.3	10.6	6.2	9.5	8	7.8	8.8	6.5	7.6	8.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.2	13.1	12.6	14.3	12.9	13.2	13	13.1	13.2	13.5	13.4	13.4	12.9	13.2	12.8	13.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		63.3	62.2	59	61.4	65.7	59.4	61.3	61.5	58.3	59.9	62.5	61.9	62.3	62	61.5	63.5
TDS @ 180° C.	GPS (500)	1250	1190	1330	1220	1260	1130	1140	1150	990	1090	1230	1220	1280	1230	1220	1220
Sulfate (SO4)		717	665	731	693	712	654	653	694	615	615	710	682	756	708	721	703
Temperature (C)		10.6	12.6	11	11.2	7.2	10.2	13.4	8.5	8.8	10.6	10.4	7.8	8.4	16.8	12.2	10.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.02	0.09	0.1	0.2	0.1	0.03	0.1	0.2	0.02	0.09	0.3	0.03	0.2	-0.03	0.06	0.1
Uranium, natural (pCi/L)	GPS (36)	7.1	8.1	8.3	7.1	9.9	7.6	7.1	8.5	7.6	8	6.9	6.9	8.4	7.3	7.9	8.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY						
TMW-92		2017				
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/8/2017	4/26/2017	6/5/2017	9/12/2017	12/13/2017
TDS A/C Balance (dec. %)		2.12	4.78	1.45	2	0.37
Alk-CaCO ₃		101	107	103	104	99
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		123	130	126	127	120
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		284	264	255	278	265
Carbonate (CO ₃)		<1	<1	<1	<1	<1
Chloride (Cl)		40	31	35	35	34
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1600	1540	1510	1560	1540
Cond-Field (umhos/cm)						
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	ND	0.1	0.1	ND
Gross Alpha (pCi/L)	GPS (15)	5.6	4.2	2.9	5.4	5.6
Iron (Fe)	GPS (0.6)	0.13	0.2	0.1	0.19	0.2
Lead (Pb210) (pCi/L)	GPS (8.9)	1.4	0.5	0.8	0	0.9
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		19.7	18.5	17.7	19.5	20
Manganese (Mn)	GPS (0.2)	0.19	0.18	0.17	0.19	0.18
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.71	7.68	7.66	8.32
pH (Field) (Std. Units)						
Potassium (K)		5.1	4.7	4.5	4.6	5
Combined Ra226/228 (pCi/L)	GPS (5.8)	11	10.5	9.9	12.6	13.6
Radium 226 (pCi/L)		3.3	2.9	3.3	3.8	3.5
Radium 228 (pCi/L)		7.7	7.6	6.6	8.8	10.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO ₂)		14.1	13.8	12.8	13.1	12.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		67.1	63.2	60.8	61.8	65.3
TDS @ 180° C.	GPS (500)	1250	1230	1220	1260	1260
Sulfate (SO ₄)		793	622	690	695	723
Temperature (C)						
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.1	0.1	0.008	0.003	0.03
Uranium, natural (pCi/L)	GPS (36)	8.8	7.5	8.1	8.5	7.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.03	0.03	<0.01

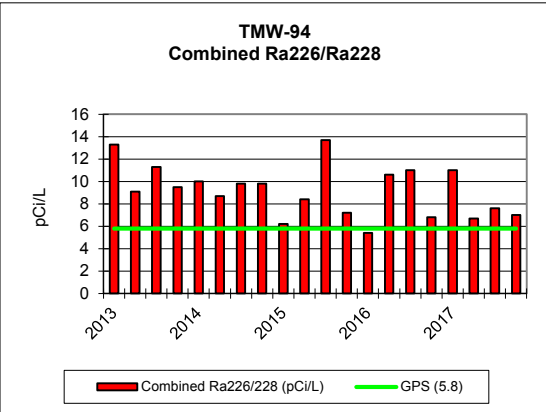
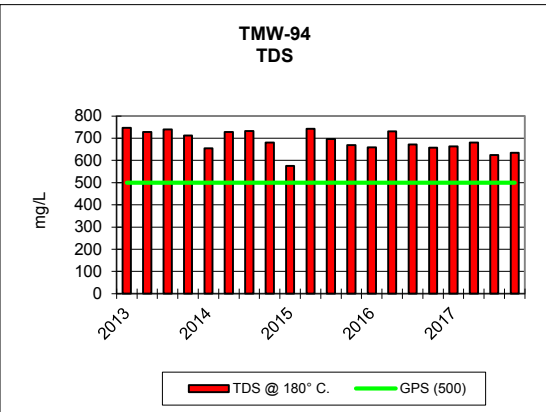
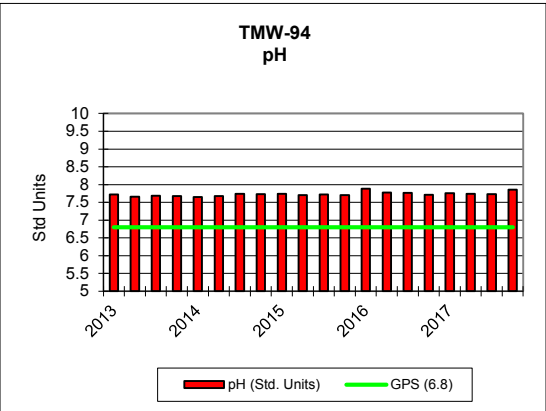


KENNECOTT URANIUM COMPANY														
TMW-93		2013				2014				2015				2016
PARAMETER <i>unless noted</i>	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05)	1/29/2013	6/10/2013	9/9/2013	10/21/2013	2/24/2014	4/28/2014	8/26/2014	11/12/2014	3/23/2015	6/1/2015	9/14/2015	12/14/2015	3/8/2016
TDS A/C Balance (<i>dec. %</i>)		2.66	0.627	0.264	1.83	2.03	0.52	0.84	0.69	3.34	0.86	1.03	1.61	0.07
Alk-CaCO3		148	142	158	168	150	142	146	150	144	141	142	147	140
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		181	174	193	205	183	173	179	183	176	172	174	179	171
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		170	149	185	188	157	135	155	162	148	142	162	171	160
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		14	14	17	17	15	13	16	16	16	13	15	18	16
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (<i>umhos/cm</i>)		1010	930	1110	1130	1020	864	986	1020	1010	912	1020	1050	1000
Cond-Field (<i>umhos/cm</i>)		1017	990	1265	1210	1057	1017	1018	1018	1661	779	801	1202	1140
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	<0.1	<0.1
Gross Alpha (<i>pCi/L</i>)	GPS (15)	3.8	4	2.7	3.6	4.2	3.7	2.1	3.7	12.2	33.2	7.7	11.6	10.7
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.07	0.1	<0.05
Lead (Pb210) (<i>pCi/L</i>)	GPS (8.9)	0.4	0.8	-0.03	0.3	0.6	-0.009	-0.04	0.04	-0.4	0.4	0.5	-0.05	<0.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.2
Magnesium (Mg)		11.7	10.3	11.8	13	11.2	9.6	10.8	10.9	10.9	10.3	11.3	11.7	11.1
Manganese (Mn)	GPS (0.2)	0.1	0.1	0.14	0.15	0.1	0.08	0.11	0.1	0.1	0.08	0.11	0.12	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (<i>Std. Units</i>)	GPS (6.8)	7.7	7.67	7.64	7.65	7.71	7.73	7.71	7.73	7.72	7.78	7.71	7.65	7.81
pH (Field) (<i>Std. Units</i>)		7.65	6.6	7	7.9	7.8	8	7.8	7.8	7.7	7.74	7.81	7.61	7.4
Potassium (K)		3.8	3.5	3.9	4.2	3.6	3.6	3.7	3.8	3.5	3.5	3.8	4	3.9
Combined Ra226/228 (<i>pCi/L</i>)	GPS (5.8)	11.6	7.5	10	10.5	6.5	6.6	8.5	10.2	6.2	6.8	9.7	9.1	7.3
Radium 226 (<i>pCi/L</i>)		3	1.8	2.3	3.3	2.2	1.8	2.2	3.1	2.3	2.4	2.6	2.8	2.2
Radium 228 (<i>pCi/L</i>)		8.6	5.7	7.7	7.2	4.3	4.8	6.3	7.1	3.9	4.4	7.1	6.3	5.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		16	13.9	14.9	15.9	13.9	13.2	14.4	14.4	13.7	13.6	14.5	15.3	14.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		50.1	48.3	52	55.4	50.1	46.1	49.5	50.3	47.1	48.7	50.7	52.4	51.2
TDS @ 180° C.	GPS (500)	745	697	880	847	746	646	731	744	694	665	740	772	748
Sulfate (SO4)		372	342	426	416	388	313	370	382	376	324	374	388	384
Temperature (C)		11.7	13.7	11.1	9.8	9.9	9.5	10.6	8.4	8.9	9.8	9.9	8.3	8.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Thorium 230 (<i>pCi/L</i>)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2	0.06
Uranium, natural (<i>pCi/L</i>)	GPS (36)	5.5	5.9	5.1	5.4	7.1	6.5	5.5	6.6	7	6.9	4.9	4.6	5.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY								
TMW-93					2017			
PARAMETER <i>unless noted</i>	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05	6/21/2016	10/5/2016	11/14/2016	2/28/2017	6/5/2017	9/12/2017	12/18/2017
TDS A/C Balance (<i>dec. %</i>)		1.6	0.37	0.07	2.38	0.49	0.97	0.97
Alk-CaCO3		151	143	149	146	140	145	142
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		185	174	182	178	171	177	173
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		152	162	158	163	150	157	171
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)			16	16	16	15	17	18
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (<i>umhos/cm</i>)		980	977	1010	1030	954	997	973
Cond-Field (<i>umhos/cm</i>)		1071	1032	1096	1124	1110	1071	1118
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	<0.1	0.1	0.1	<0.1
Gross Alpha (<i>pCi/L</i>)	GPS (15)	2.5	4.7	13.3	3.8	2.5	3.8	2.3
Iron (Fe)	GPS (0.6)	0.05	0.09	0.12	0.09	0.06	0.1	0.08
Lead (Pb210) (<i>pCi/L</i>)	GPS (8.9)	<0.2	<0.2	<0.2	1	-0.04	0.5	1.7
Lead (Pb)		-0.062	0.6	0.6	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		10.8	10.2	11.1	11.2	10.5	11	11.6
Manganese (Mn)	GPS (0.2)	0.1	0.11	0.1	0.1	0.1	0.11	0.11
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (<i>Std. Units</i>)	GPS (6.8)	7.8	7.73	7.76	7.77	7.74	7.7	7.7
pH (Field) (<i>Std. Units</i>)		6.46	7.63	7.86	7.75	7.52	7.53	7.35
Potassium (K)		3.7	3.7	3.8	3.8	3.8	3.6	4.1
Combined Ra226/228 (<i>pCi/L</i>)	GPS (5.8)	9	7.7	8	6.6	7.5	7.7	8.4
Radium 226 (<i>pCi/L</i>)		2	2.7	2.8	2.3	2.2	2.3	3.1
Radium 228 (<i>pCi/L</i>)		7	5	5.2	4.3	5.3	5.4	5.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.3	14.4	14.7	15.3	14.8	14.3	15.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		49.2	46.4	51.4	51.6	50.4	49.7	52.1
TDS @ 180° C.	GPS (500)	720	712	729	739	698	685	754
Sulfate (SO4)		334	367	370	359	349	355	399
Temperature (C)		16.1	11.3	10.6	7.9	10.1	9.7	8.5
Thallium (Tl)	GPS (7.0)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Thorium 230 (<i>pCi/L</i>)		0.03	-0.02	0.1	0.6	0.04	0.07	0.02
Uranium, natural (<i>pCi/L</i>)	GPS (36)	4.9	4.3	4.6	4.4	5	8.8	4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.03	<0.01	<0.01	0.01	0.01	0.05

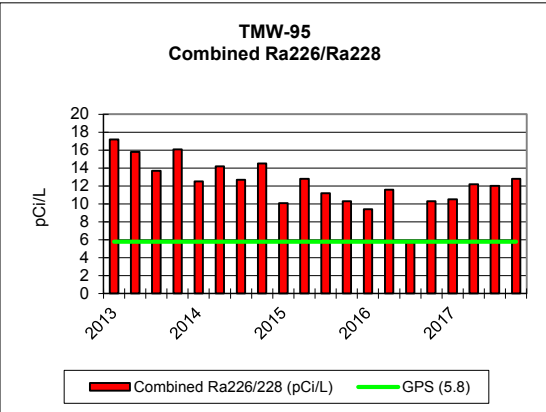
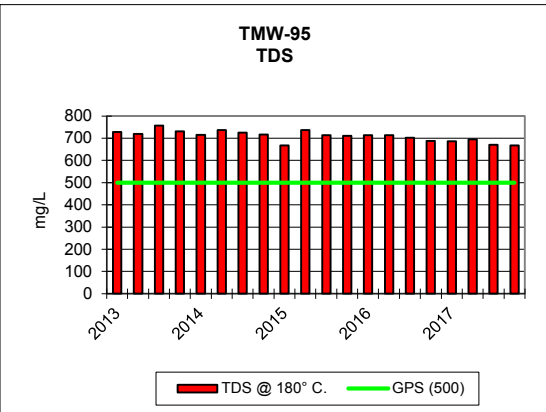
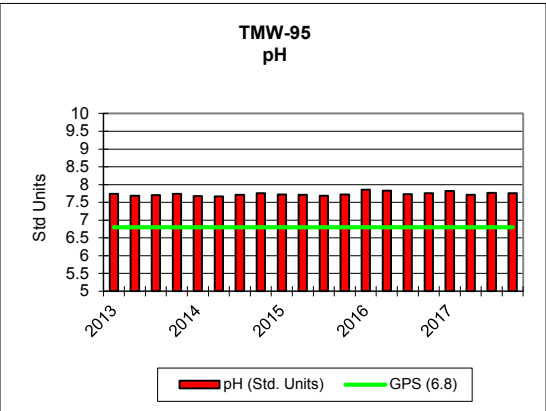
KENNECOTT URANIUM COMPANY																
TMW-94		2013				2014					2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/29/2013	6/10/2013	9/9/2013	10/21/2013	2/4/2014	4/28/2014	8/26/2014	11/11/2014	3/23/2015	6/1/2015	9/14/2015	12/14/2015	3/8/2016	6/13/2016	
TDS A/C Balance (dec. %)		2.75	0.575	-1.09	2	1.53	0.45	0.68	2.26	0.88	1.14	0.96	0.19	11.5	3.1	
Alk-CaCO3		144	141	144	145	137	141	141	141	135	140	134	137	132	144	
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bicarbonate (HCO3)		175	172	175	177	168	171	172	173	164	171	163	167	161	176	
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Calcium (Ca)		171	155	153	156	142	157	156	143	146	163	153	145	112	149	
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloride (Cl)		13	14	13	13	12	15	15	14	13	14	14	14	13	14	
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cond (umhos/cm)		1000	973	961	965	909	969	982	946	919	1010	976	923	899	966	
Cond-Field (umhos/cm)		1029	1029	1094	1042	942	1105	998	981	1664	612	599	991	1023	1094	
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	<0.1	
Gross Alpha (pCi/L)	GPS (15)	4.2	4.4	2.8	3.4	3	4.5	2.5	3	12.6	47	8.2	8.8	8.7	5.8	
Iron (Fe)	GPS (0.6)	<0.05	0.05	<0.05	<0.05	0.06	<0.05	0.08	0.12	0.1	0.13	0.08	0.11	0.06	0.13	
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.3	0.27	
Magnesium (Mg)		10.6	9.8	9.1	9.4	8.9	10.2	10.1	8.8	9.3	10.7	9.8	9	7	9.7	
Manganese (Mn)	GPS (0.2)	0.11	0.1	0.1	0.1	0.07	0.09	0.11	0.09	0.08	0.1	0.1	0.1	0.06	0.1	
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
pH (Std. Units)	GPS (6.8)	7.72	7.66	7.69	7.68	7.65	7.68	7.74	7.73	7.74	7.7	7.72	7.7	7.88	7.78	
pH (Field) (Std. Units)		7.62	7.6	7	8	7.8	8	7.9	7.71	7.72	7.73	7.79	7.65	7.44	6.77	
Potassium (K)		3.9	3.6	3.8	3.8	3.5	3.8	3.8	3.5	3.7	3.9	3.7	3.7	2.9	3.4	
Combined Ra226/228 (pCi/L)	GPS (5.8)	13.3	9.1	11.3	9.5	10	8.7	9.8	9.8	6.2	8.4	13.7	7.2	5.4	10.6	
Radium 226 (pCi/L)		3.8	2.8	2.6	3.1	2.3	2.3	2.7	3.9	2.5	2.5	3.1	2.4	1.5	2.4	
Radium 228 (pCi/L)		9.5	6.3	8.7	6.4	7.7	6.4	7.1	5.9	3.7	5.9	10.6	4.8	3.9	8.2	
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Silica (SiO2)		17.8	15.6	15.3	16.5	15.4	15.4	15.6	15.3	15.1	16	15.8	16.1	12.3	14.4	
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sodium (Na)		50.4	48.6	46.1	49.2	46.8	49.5	49.4	46.1	47.8	53.3	49.5	47.6	37.9	45.7	
TDS @ 180° C.	GPS (500)	747	728	740	712	654	728	732	680	575	742	697	669	659	731	
Sulfate (SO4)		377	357	359	341	315	374	374	345	334	383	357	337	333	370	
Temperature (C)		11	13.5	11.5	9.6	8.2	9.2	10.4	8.9	9	10.3	10.1	7.9	8.3	9.7	
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.2	<0.2	0.08	-0.002	
Uranium, natural (pCi/L)	GPS (36)	2.7	3.1	2.7	2.3	3	3.3	3.3	3.2	3.3	3.9	3.1	2.5	2.1	3.2	
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	

KENNECOTT URANIUM COMPANY							
TMW-94				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/5/2016	11/14/2016	2/27/2017	6/5/2017	9/12/2017	12/18/2017
TDS A/C Balance (dec. %)		0.69	1.06	0.15	1.11	1.49	0.76
Alk-CaCO3		137	148	138	134	134	131
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		167	181	168	163	164	159
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		150	141	137	142	137	142
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		13	12	12	13	12	13
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		927	914	947	934	889	815
Cond-Field (umhos/cm)		1001	995	1052	1011	994	952
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	9.3	17.5	3.9	2.8	3.9	2.8
Iron (Fe)	GPS (0.6)	0.1	0.12	0.1	0.07	0.08	0.08
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	1.1	0.3	0.3	0.8
Lead (Pb)		0.4	0.9	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8.6	9	8.1	9.1	8.7	9
Manganese (Mn)	GPS (0.2)	0.09	0.09	0.08	0.09	0.1	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.77	7.71	7.76	7.74	7.73	7.86
pH (Field) (Std. Units)		7.57	7.83	7.82	7.5	7.54	7.56
Potassium (K)		3.6	3.7	3.5	3.6	3.5	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	11	6.8	11	6.7	7.6	7
Radium 226 (pCi/L)		2.4	2.1	2.5	2	2.5	2.5
Radium 228 (pCi/L)		8.6	4.7	8.5	4.7	5.1	4.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.7	15.7	16	15.6	15.5	16.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		43.5	48.4	45.5	48	45.1	47.2
TDS @ 180° C.	GPS (500)	672	658	664	681	624	635
Sulfate (SO4)		345	330	311	345	302	330
Temperature (C)		11	10.8	7.6	9.7	10.5	8.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.01	0.2	0.1	0.05	0.004	0.2
Uranium, natural (pCi/L)	GPS (36)	2.3	2.6	2.1	3.3	2.6	2.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.04	<0.01	<0.01	0.02	0.02	0.01



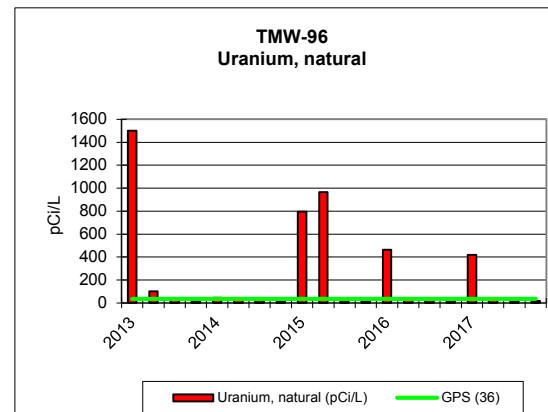
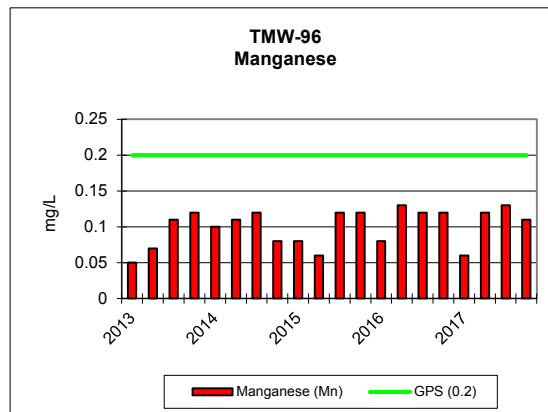
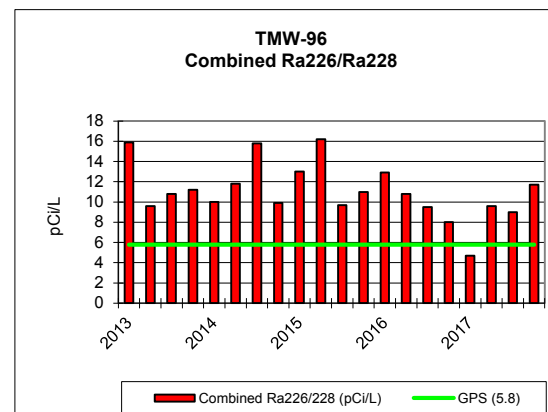
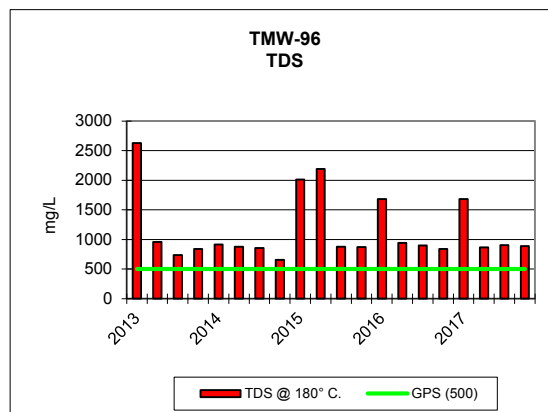
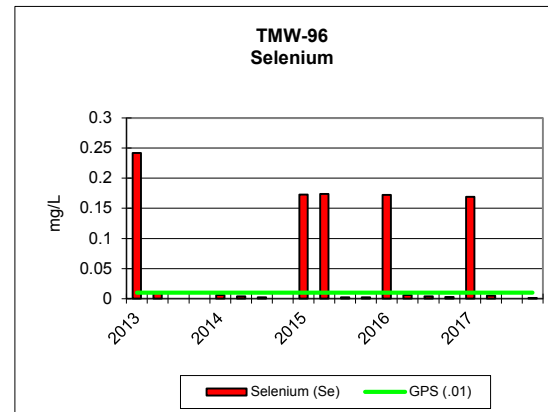
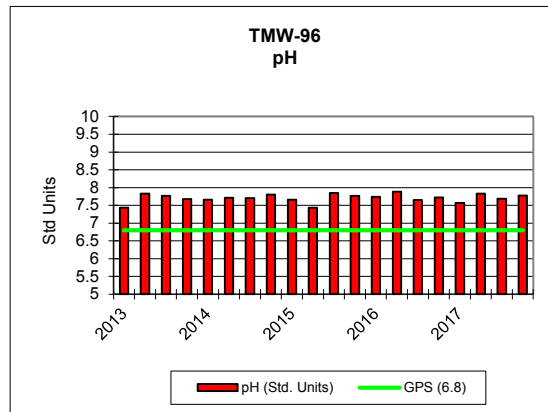
KENNECOTT URANIUM COMPANY															
TMW-95		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/29/2013	6/10/2013	9/9/2013	10/21/2013	2/4/2014	4/28/2014	8/26/2014	11/12/2014	3/23/2015	6/1/2015	9/14/2015	12/14/2015	3/8/2016	6/13/2016
TDS A/C Balance (dec. %)		4.33	1.99	-0.409	3.22	0.95	1.42	1.15	0.75	4.6	2.34	1.74	1.42	0.41	2.27
Alk-CaCO3		141	140	143	145	141	142	142	145	151	140	136	135	136	157
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		172	170	174	176	172	173	174	177	184	171	166	165	166	191
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		176	157	157	165	151	158	156	160	147	162	158	156	154	154
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		15	14	15	14	15	16	16	16	16	15	15	16	15	15
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		994	969	978	985	981	972	976	985	994	987	996	967	959	952
Cond-Field (umhos/cm)		1000	1034	1111	1058	1012	1089	985	1013	1757	1055	1021	641	1088	1116
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	ND	0.1	0.1	0.1	0.1	0.1	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	6.4	6.2	3.7	4.7	4.7	6.1	5.3	4.4	13.4	0.03	11.9	12.9	16.5	6.6
Iron (Fe)	GPS (0.6)	<0.05	0.07	0.05	<0.05	<0.05	<0.05	0.13	0.15	0.15	0.15	0.09	0.13	0.12	0.16
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.3	0.6	0.2	0.8	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	0.49
Magnesium (Mg)		9.7	8.9	8.6	9.1	8.5	9	9	9	8.4	9.2	9.1	8.8	8.7	8.7
Manganese (Mn)	GPS (0.2)	0.11	0.09	0.09	0.1	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.1	0.09	0.09
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.74	7.69	7.7	7.74	7.68	7.67	7.71	7.76	7.72	7.71	7.69	7.72	7.86	7.83
pH (Field) (Std. Units)		7.73	7.7	7.2	8	7.8	7.8	8	7.5	7.79	7.76	7.77	7.7	7.49	7.44
Potassium (K)		3.9	3.6	3.9	4	3.5	3.8	3.7	3.8	3.6	3.8	3.8	3.8	3.9	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.2	15.8	13.7	16.1	12.5	14.2	12.7	14.5	10.1	12.8	11.2	10.3	9.4	11.6
Radium 226 (pCi/L)		5.5	3.9	3.2	4.3	3.5	3.5	4	4.8	4	4.3	4.4	3.6	3.3	3.9
Radium 228 (pCi/L)		11.7	11.9	10.5	11.8	9	10.7	8.7	9.7	6.1	8.5	6.8	6.7	6.1	7.7
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		17.8	15.4	15	16.5	14.9	15.5	15.8	15.9	15.6	16.5	15.9	16.2	15.9	15.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		50.7	49.1	47	48.5	47.5	49.1	49.4	49.5	45.7	53.5	50.3	49.5	50.2	48
TDS @ 180° C.	GPS (500)	728	720	757	731	715	737	725	716	668	737	714	711	714	714
Sulfate (SO4)		368	344	359	345	352	378	371	359	366	361	356	350	357	361
Temperature (C)		11.4	13	11.2	10.1	8.6	9.2	11.5	7.2	8.9	10.2	10.3	8.2	8.3	8.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	0.2	0.1	<0.02	0.05	0.02	<0.02	0.2	0.07	0.02	0.1	0.02	0.3	0.1
Uranium, natural (pCi/L)	GPS (36)	1.8	1.8	1.8	1.7	2	1.9	1.8	2	1.6	1.7	1.5	1.4	1.5	1.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-95				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/10/2016	11/15/2016	2/28/2017	6/5/2017	9/12/2017	11/7/2017
TDS A/C Balance (dec. %)		0.17	0.61	3.2	0.44	1.29	0.59
Alk-CaCO3		141	141	138	135	136	142
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		172	172	169	165	166	174
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		152	152	153	148	144	138
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		15	14	14	15	14	13
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		958	938	958	940	927	917
Cond-Field (umhos/cm)		1044	1031	1094	1040	1025	1044
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	8.1	5.9	6	3.5	5.4	6.1
Iron (Fe)	GPS (0.6)	0.13	0.16	0.14	0.15	0.11	0.07
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	1.8	0.4	0.7	1.1
Lead (Pb)		-0.6	0.7	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		8.7	8.7	8.7	8.6	8.4	7.8
Manganese (Mn)	GPS (0.2)	0.09	0.09	0.09	0.09	0.1	0.08
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.73	7.76	7.82	7.71	7.77	7.76
pH (Field) (Std. Units)		7.68	7.92	7.89	7.64	7.54	7.34
Potassium (K)		3.8	3.7	3.8	3.7	3.6	3.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.7	10.3	10.5	12.2	12	12.8
Radium 226 (pCi/L)		4.4	3.3	3	4.1	3.6	3.3
Radium 228 (pCi/L)		1.3	7	7.5	8.1	8.4	9.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		15.9	15.5	17.1	16.2	15.5	15.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		49.3	48.7	51.2	49	46.5	45.9
TDS @ 180° C.	GPS (500)	702	688	686	695	670	668
Sulfate (SO4)		353	344	329	349	318	313
Temperature (C)		11.4	10.3	8.5	10	9.8	9.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		-0.02	0.8	0.7	0.008	0.03	0.03
Uranium, natural (pCi/L)	GPS (36)	1.4	1.5	1.4	1.5	1.5	1.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	<0.01	<0.01	0.04	0.02	0.02



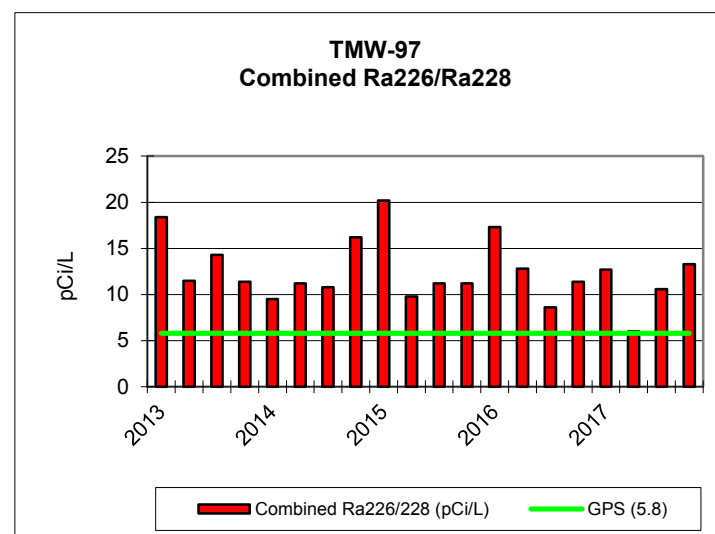
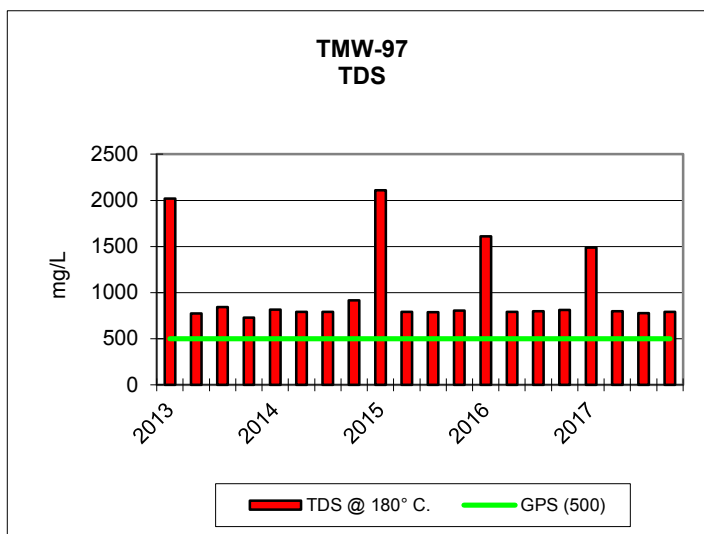
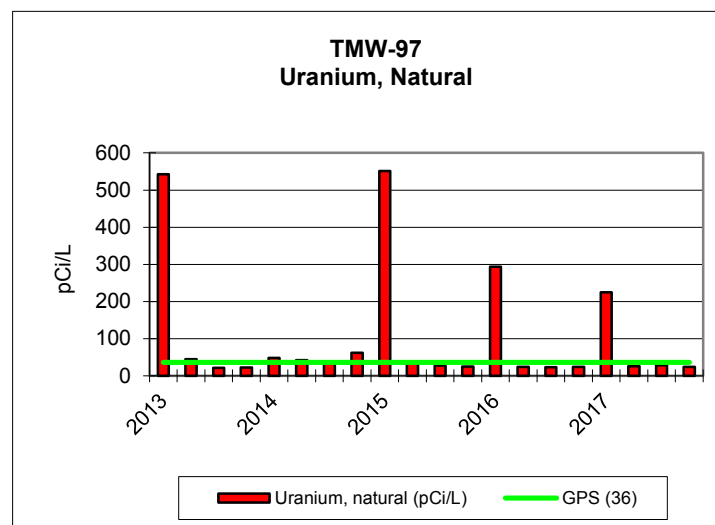
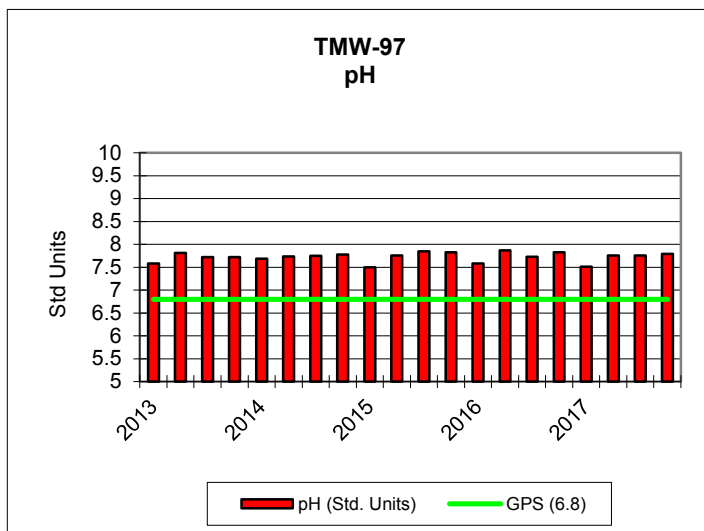
KENNECOTT URANIUM COMPANY																	
TMW-96		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/25/2013	4/29/2013	7/8/2013	10/1/2013	3/18/2014	4/1/2014	7/8/2014	10/21/2014	1/26/2015	4/15/2015	7/20/2015	11/3/2015	2/16/2016	4/21/2016	7/11/2016	10/3/2016
TDS A/C Balance (dec. %)		-1.03	0.168	1.93	0.782	1.05	3.34	0.35	0.52	0.25	0.69	1.41	0.38	0.21	2.14		0.63
Alk-CaCO3		168	127	105	124	125	134	124	117	139	150	124	129	128	118	124	121
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		204	155	128	152	152	163	151	143	169	183	151	157	156	143	152	148
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		483	198	160	187	195	184	186	140	386	414	185	191	326	205	203	183
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		162	31	22	23	30	28	28	20	123	135	28	28	91	30	31	28
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Cond (umhos/cm)		2880	1280	1000	1090	1180	1190	1140	921	2340	2560	1160	1150	2020	1190	1080	1130
Cond-Field (umhos/cm)		3010	1387	1216	1191	1363	1369	1160	956	2440	2600	1205	1209	2250	1303	1429	1214
Copper (Cu)		0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	0.1	<0.1	0.1	0.1	<0.1	0.1	0.2	ND	0.1	0.1	0.1	0.1	<0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	4.7	4.3	2	3.7	5	3.2	3.7	4.4	17.4	23.1	11.1	7.4	4.6	6.7	4.6	8.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	0.07	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	0.05	0.06	0.06	<0.05	<0.05	<0.05	0.11
Lead (Pb210) (pCi/L)	GPS (8.9)	0.6	0.2	0.3	0.2	0.9	0.2	0.5	0.2	-0.2	0.4	0.2	0.7	<0.2	<0.2	<0.2	<0.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.6	-0.23	-0.1	0.6
Magnesium (Mg)		91.7	17.2	11.6	10.8	14.7	11.7	12.5	8.6	59.5	66.1	12.1	12.8	48.7	14.8	12.8	12.6
Manganese (Mn)	GPS (0.2)	0.05	0.07	0.11	0.12	0.1	0.11	0.12	0.08	0.08	0.06	0.12	0.12	0.08	0.13	0.12	0.12
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		5.4	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.6	3.6	<0.1	<0.1	2.8	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.43	7.83	7.77	7.68	7.66	7.71	7.7	7.8	7.66	7.43	7.85	7.77	7.74	7.88	7.65	7.72
pH (Field) (Std. Units)		7.6	7.9	7.6	7.79	7.9	7.8	7.8	7.97	7.44	7.13	7.59	7.59	7.17	7.47	6.76	7.58
Potassium (K)		6.1	3.9	3.7	3.8	4	3.8	4	3.4	5.6	5.7	3.5	3.9	4.6	4.1	4.1	3.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	15.9	9.6	10.8	11.2	10	11.8	15.8	9.9	13	16.2	9.7	11	12.9	10.8	9.5	8
Radium 226 (pCi/L)		3.7	3.3	2.4	2.8	3.4	2.8	2.4	2.6	4.6	4.5	2.7	2.7	4.1	3.3	2.6	2.3
Radium 228 (pCi/L)		12.2	6.3	8.4	8.4	6.6	9	13.4	7.3	8.4	11.7	7	8.3	8.8	7.5	6.9	5.7
Selenium (Se)	GPS (.01)	0.242	0.01	<0.001	<0.001	0.006	0.004	0.002	<0.001	0.173	0.174	0.002	0.002	0.172	0.006	0.004	0.003
Silica (SiO2)		10.3	12.8	14.6	13.4	13.4	15.6	14.1	13.1	11.9	12.1	14.2	14.7	11.6	14.4	13.7	13.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		144	56.5	49.9	48.1	55	47	53.4	46.1	115	113	52	53.7	92	57.2	51.7	52.4
TDS @ 180° C.	GPS (500)	2630	957	738	841	916	880	854	655	2010	2190	876	872	1680	940	899	839
Sulfate (SO4)		1470	498	387	437	473	464	451	336	1090	1180	464	459	912	492	442	455
Temperature (C)		10	12.2	13.1	12.2	9.6	9.7	11.4	10.8	9.6	10.2	11.9	11.7	10.8	10.6	11.2	11.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.07	0.09	0.04	0.1	0.2	0.04	0.04	0.1	0.07	0.6	0.1	0.05	0.06	0.02	0.04	0.02
Uranium, natural (pCi/L)	GPS (36)	1500	101	32.7	13.9	45.1	33.7	23.6	16	795	967	19.6	15.9	463	41.8	24.4	19.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	<0.01	<0.01	<0.01	<0.01	0.001	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY					
TMW-96		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/8/2017	4/18/2017	7/31/2017	10/17/2017
TDS A/C Balance (dec. %)		2.98	0.04	1.49	2.32
Alk-CaCO3		125	122	114	127
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		153	149	135	156
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		328	188	185	177
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		96	30	29	27
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2120	1170	1200	1180
Cond-Field (umhos/cm)		2280	1272	1280	1236
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	7.9	5.5	4	4.5
Iron (Fe)	GPS (0.6)	<0.05	<0.05	0.07	0.11
Lead (Pb210) (pCi/L)	GPS (8.9)	1.2	0	0.3	0.3
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		50.4	13.8	12.1	12
Manganese (Mn)	GPS (0.2)	0.06	0.12	0.13	0.11
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		2.7	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.57	7.83	7.69	7.78
pH (Field) (Std. Units)		7.16	8.15	7.03	7.45
Potassium (K)		5.3	3.9	3.5	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.7	9.6	9	11.7
Radium 226 (pCi/L)		3.4	2.1	2.7	2.9
Radium 228 (pCi/L)		1.3	7.5	6.3	8.8
Selenium (Se)	GPS (.01)	0.169	0.005	<0.001	0.001
Silica (SiO2)		12.3	14.4	12.6	13.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		99.1	53.5	49.1	48.1
TDS @ 180° C.	GPS (500)	1680	867	906	886
Sulfate (SO4)		1010	463	468	445
Temperature (C)		10.3	11.4	13.2	11.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.4	0.02	0.08	0.06
Uranium, natural (pCi/L)	GPS (36)	420	29.8	16.7	18.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.08	0.01	<0.01



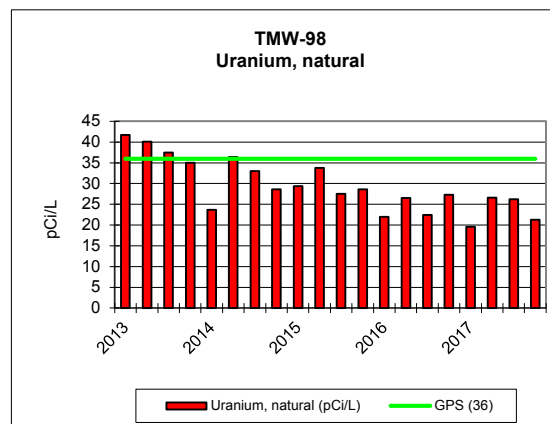
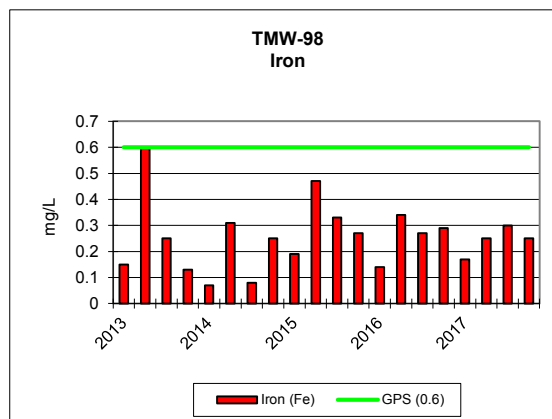
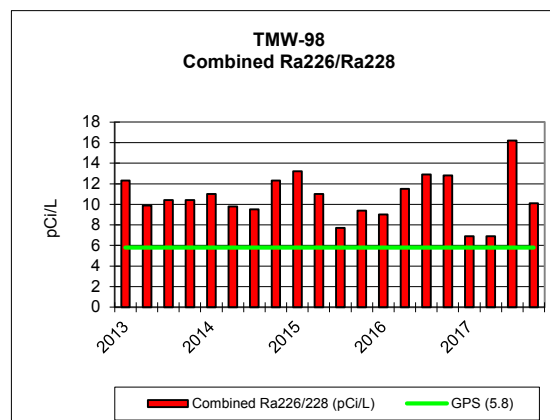
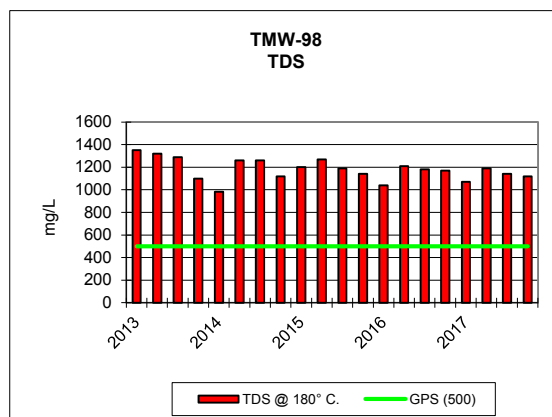
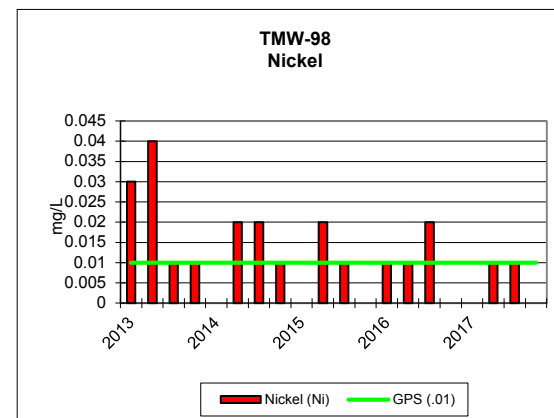
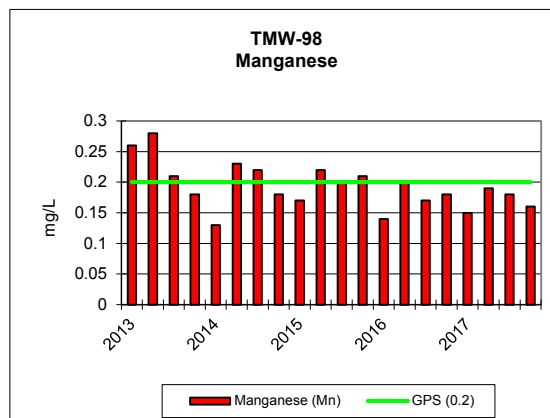
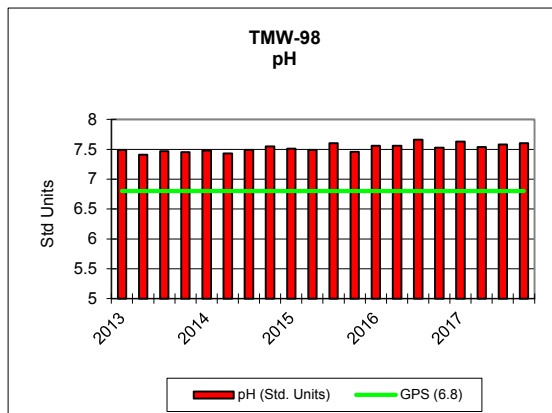
KENNECOTT URANIUM COMPANY																	
TMW-97		2013			2014					2015			2016				
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/25/2013	4/29/2013	7/8/2013	10/1/2013	3/18/2014	4/1/2014	7/8/2014	11/10/2014	3/25/2015	6/2/2015	9/2/2015	11/3/2015	3/21/2016	6/20/2016	9/7/2016	11/7/2016
TDS A/C Balance (dec. %)		-0.503	0.019	0.421	-2.34	0.37	1.47	0.12	2.12	0.21	2.6	2.77	0.93	0.65	2.81	5.02	0.49
Alk-CaCO3		155	107	133	105	106	105	105	108	154	105	102	122	128	109	108	107
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		189	131	162	128	129	128	128	131	188	128	125	148	157	133	132	131
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		407	158	186	147	167	165	166	191	417	152	172	172	317	165	166	170
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		72	24	25	24	26	27	27	36	74	28	25	26	58	27	28	26
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2260	1060	1130	965	1070	1100	1050	1200	2490	1080	1050	1070	1880	1050	1070	1080
Cond-Field (umhos/cm)		2380	1063	1021	999	1196	1156	1102	1232	4270	1138	1093	1111	2140	1159	1156	1188
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	4.6	4.1	2.9	3.3	4.6	4	2.7	4.3	49.8	10.9	15.3	7.3	6.8	3.5	4.9	6.3
Iron (Fe)	GPS (0.6)	<0.05	0.1	<0.05	0.11	0.19	0.14	0.08	0.13	0.89	<0.05	0.1	0.16	0.67	0.09	0.18	0.2
Lead (Pb210) (pCi/L)	GPS (8.9)	0.6	0.3	0.2	0.3	0.8	0.2	<1	<1	2	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.4	0.85	0.6	1.3
Magnesium (Mg)		56.3	12.4	12.4	9.2	13.3	12.2	12.1	12.6	65.4	12.4	12.5	11.9	43.9	11.3	11.8	12.3
Manganese (Mn)	GPS (0.2)	0.29	0.1	0.12	0.11	0.11	0.11	0.11	0.13	0.3	0.12	0.11	0.11	0.25	0.11	0.11	0.11
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.58	7.81	7.72	7.72	7.69	7.74	7.75	7.78	7.5	7.76	7.85	7.83	7.58	7.87	7.73	7.83
pH (Field) (Std. Units)		7	7.2	8	7.8	7.9	8	8.2	7.83	7.4	7.7	7.6	7.62	7.24	6.51	7.47	7.96
Potassium (K)		5.8	3.4	4.1	3.3	3.5	3.6	3.7	3.9	5.8	3.8	3.7	3.6	4.8	3.6	3.6	3.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	18.4	11.5	14.3	11.4	9.5	11.2	10.8	16.2	20.2	9.8	11.2	11.2	17.3	12.8	8.6	11.4
Radium 226 (pCi/L)		3.9	2.7	2.9	2.4	3.1	2.6	2.3	3.8	4	1.7	2.6	3.1	4.1	2.6	2.3	2.9
Radium 228 (pCi/L)		14.5	8.8	11.4	9	6.4	8.6	8.5	12.4	16.2	8.1	8.6	8.1	13.2	10.2	6.3	8.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.4	14.4	14.6	14	13.9	15.6	13.9	13.7	11.2	14.8	14.9	14.1	13.8	14.6	14.4	14.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		97.1	48.2	53.9	42.6	49.7	47.1	49.8	51.3	103	53.9	52.1	49.9	80.5	45.8	50	51.2
TDS @ 180° C.	GPS (500)	2020	773	842	731	815	793	790	916	2110	792	787	805	1610	792	799	814
Sulfate (SO4)		1180	398	445	372	420	426	416	493	1240	419	412	426	920	429	440	423
Temperature (C)		9.9	8.8	12	14	9.3	9.8	11.5	8.8	9.8	12.1	12.1	11.9	10.3	14.1	11.2	10.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.2	<0.2	0.1	0.06	0.02	0.1
Uranium, natural (pCi/L)	GPS (36)	543	44.9	21.8	22.2	48	42.7	33.2	62	551	33.5	27.5	25.3	294	24.2	23.2	24.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.03

KENNECOTT URANIUM COMPANY					
TMW-97		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/8/2017	6/6/2017	9/13/2017	11/1/2017
TDS A/C Balance (dec. %)		1.74	3.21	0.26	1.36
Alk-CaCO3		124	103	101	105
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		152	126	123	128
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		316	162	164	174
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		63	29	29	28
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1900	1080	1080	1080
Cond-Field (umhos/cm)		2010	1151	1124	1201
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	8.8	2.6	2.7	6.7
Iron (Fe)	GPS (0.6)	0.69	0.13	0.2	0.23
Lead (Pb210) (pCi/L)	GPS (8.9)	1.2	0.9	0.5	-0.2
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		38	11.7	11.9	12.3
Manganese (Mn)	GPS (0.2)	0.26	0.11	0.12	0.12
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.51	7.76	7.76	7.79
pH (Field) (Std. Units)		7.07	6.84	7.57	7.1
Potassium (K)		5	3.7	3.5	3.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.7	6	10.6	13.3
Radium 226 (pCi/L)		4.4	-0.1	2.5	2.8
Radium 228 (pCi/L)		8.3	6.1	8.1	10.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.8	14.1	13.6	14.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		80.8	50.3	50.8	50.6
TDS @ 180° C.	GPS (500)	1490	800	778	792
Sulfate (SO4)		917	442	416	422
Temperature (C)		10.8	13.1	13.9	11.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.3	-0.002	0.05	0.05
Uranium, natural (pCi/L)	GPS (36)	225	25.8	28.5	24.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	<0.01	<0.01	0.05



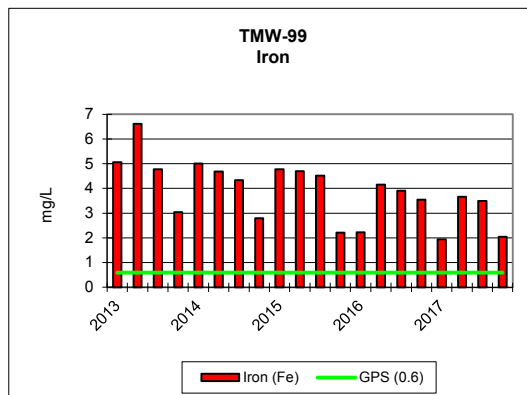
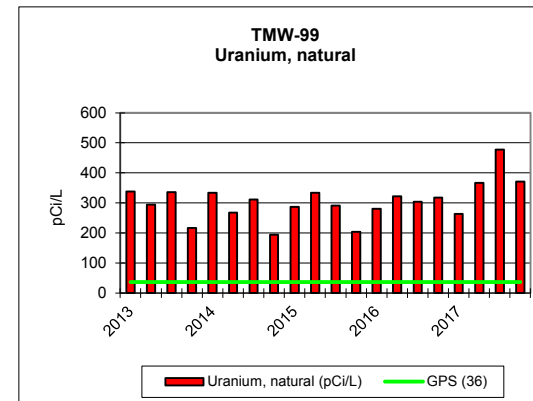
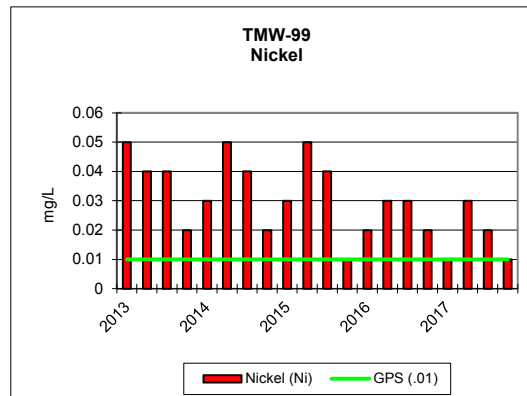
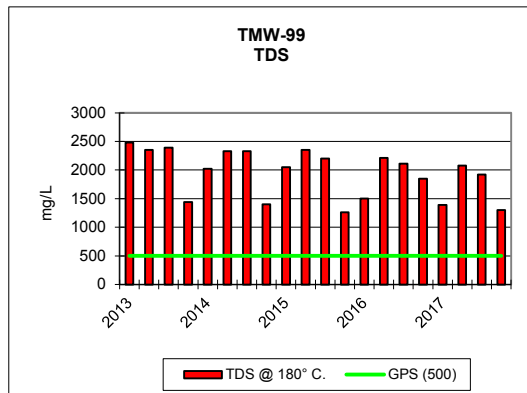
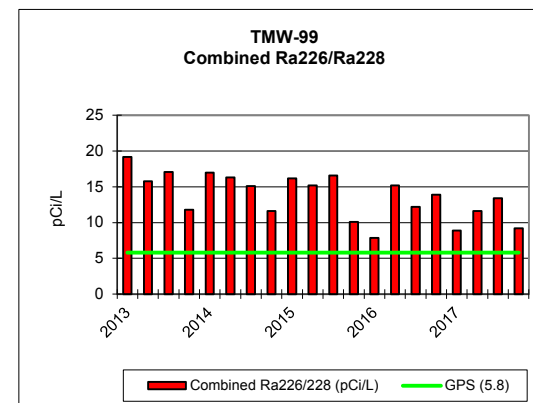
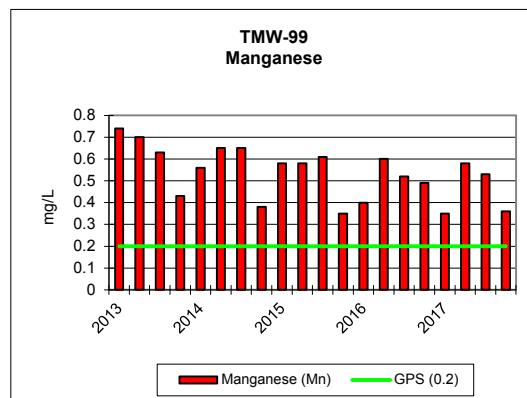
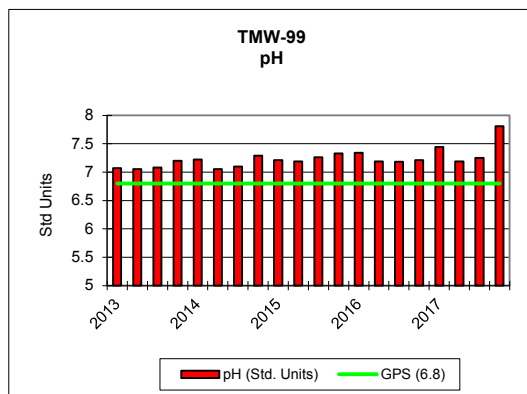
KENNECOTT URANIUM COMPANY																
TMW-98		2013				2014				2015				2016		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/5/2013	6/11/2013	9/9/2013	10/28/2013	2/4/2014	4/29/2014	8/11/2014	11/10/2014	3/30/2015	6/2/2015	9/2/2015	12/15/2015	3/15/2016	6/21/2016	10/11/2016
TDS A/C Balance (dec. %)		3.06	-0.563	-1.01	0.898	0.43	3	2.17	3.33	2.57	1.43	1.92	4.05	0.24	0.62	1.87
Alk-CaCO3		109	108	110	109	110	110	106	111	110	106	102	107	104	122	111
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.002	0.001	<0.001	<0.001	0.001	0.001	0.002	<0.001	0.001	0.001	0.002	0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		133	132	134	133	134	134	129	135	135	129	124	131	127	148	135
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		299	283	264	244	217	268	265	228	262	258	262	227	225	255	250
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		27	32	30	35	29	32	32	36	36	32	31	42		32	35
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.017	0.027	0.008	0.009	0.004	0.013	0.014	0.013	0.004	0.016	0.007	0.008	0.004	0.009	0.006
Cond (umhos/cm)		1570	1570	1480	1390	1320	1490	1540	1400	1480	1590	1470	1420	1310	1480	1460
Cond-Field (umhos/cm)		1629	1583	1652	1511	1329	1349	942	1438	2640	1686	1506	1479			
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	2.5	5.9	2.8	3.7	2.9	6.1	3.1	2.6	5.3	10.1	14.9	8.7	2.4	4.8	3.6
Iron (Fe)	GPS (0.6)	0.15	0.6	0.25	0.13	0.07	0.31	0.08	0.25	0.19	0.47	0.33	0.27	0.14	0.34	0.27
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	0.41	-0.02
Magnesium (Mg)		27.5	26.4	22.6	22.7	17.8	23.7	23.6	19.1	21.8	24.7	22.6	21.8	17.7	22.2	21.5
Manganese (Mn)	GPS (0.2)	0.26	0.28	0.21	0.18	0.13	0.23	0.22	0.18	0.17	0.22	0.2	0.21	0.14	0.2	0.17
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.03	0.04	0.01	0.01	<0.01	0.02	0.02	0.01	<0.01	0.02	0.01	<0.01	0.01	0.01	0.02
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.49	7.41	7.47	7.45	7.48	7.43	7.49	7.55	7.51	7.49	7.6	7.46	7.56	7.56	7.66
pH (Field) (Std. Units)		7.46	7.3	6.6	7.5	7.7	7.9	7.4	7.61	7.52	7.4	7.34	7.42			
Potassium (K)		4.9	5.1	5.2	4.9	4.2	5	5.1	4.5	5.2	5.4		4.8	4.5	4.8	4.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.3	9.9	10.4	10.4	11	9.8	9.5	12.3	13.2	11	7.7	9.4	9	11.5	12.9
Radium 226 (pCi/L)		2.6	1.9	1.8	2.4	2.2	3.1	2.3	2.8	3.7	2.4	2.1	1.9	2.2	1.8	2
Radium 228 (pCi/L)		9.7	8	8.6	8	8.8	6.7	7.2	9.5	9.5	8.6	5.6	7.5	6.8	9.7	10.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.6	12	11.3	13.6	12	12	12.2	11.6	12.3	12.6	12.5	12.8	12.8	12.2	12.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		53.7	56.5	52.9	54.9	51.6	55.3	57.4	51.5	58	59.6	56.4	56.8	55.4	55.2	55.3
TDS @ 180° C.	GPS (500)	1350	1320	1290	1100	982	1260	1260	1120	1200	1270	1190	1140	1040	1210	1180
Sulfate (SO4)		746	770	711	630	564	761	747	629	733	727	669	649	584	649	681
Temperature (C)		10.2	12.9	11.2	9.1	8.7	9.8	11.3	8.2	11.1	11.8	10.2	9.2			
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	0.3	0.2	0.02	0.04	0.3	0.05	0.09	0.1	0.02	0.08	-0.006	0.5
Uranium, natural (pCi/L)	GPS (36)	41.7	40.1	37.5	35	23.7	36.4	33	28.6	29.4	33.8	27.5	28.6	22	26.5	22.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01

KENNECOTT URANIUM COMPANY						
TMW-98			2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/9/2016	3/1/2017	6/6/2017	9/13/2017	11/6/2017
TDS A/C Balance (dec. %)		1.7	2.79	3.46	0.66	3.61
Alk-CaCO3		105	105	101	102	106
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		128	128	124	124	129
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		249	235	245	245	259
Carbonate (CO3)		<1	<1	<1	<1	<1
Chloride (Cl)		35	40	37	38	37
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.006	0.004	0.009	0.006	0.005
Cond (umhos/cm)		1490	1410	1490	1460	1420
Cond-Field (umhos/cm)			1545	1571	1549	1645
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	17.4	4.1	2.4	3.7	4.7
Iron (Fe)	GPS (0.6)	0.29	0.17	0.25	0.3	0.25
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	0.7	0.05	0.1	0.5
Lead (Pb)		0.5	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		21.3	18.3	21.2	20.3	21.1
Manganese (Mn)	GPS (0.2)	0.18	0.15	0.19	0.18	0.16
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	0.01	0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.53	7.63	7.54	7.58	7.6
pH (Field) (Std. Units)			7.27	6.85	7.37	7.44
Potassium (K)		4.7	4.5	5	4.8	4.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.8	6.9	6.9	16.2	10.1
Radium 226 (pCi/L)		2.8	2.1	0.1	2.4	2.7
Radium 228 (pCi/L)		10	4.8	6.8	13.8	7.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.1	13.5	11.9	11.4	11.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		54.6	60.2	53.9	56.3	52.3
TDS @ 180° C.	GPS (500)	1170	1070	1190	1140	1120
Sulfate (SO4)		680	570	697	632	611
Temperature (C)			8.4	10.4	10.1	8.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.04	0.07	0.2	-0.008	0.07
Uranium, natural (pCi/L)	GPS (36)	27.3	19.6	26.6	26.2	21.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.11	<0.01



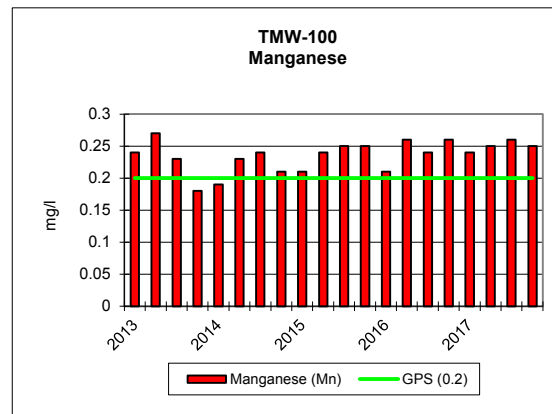
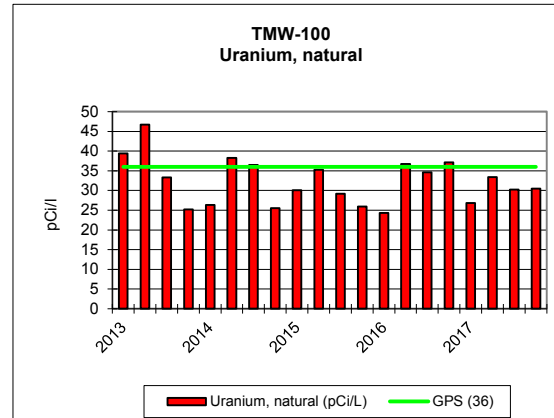
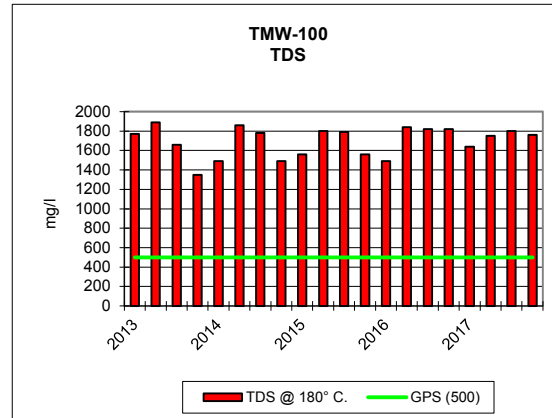
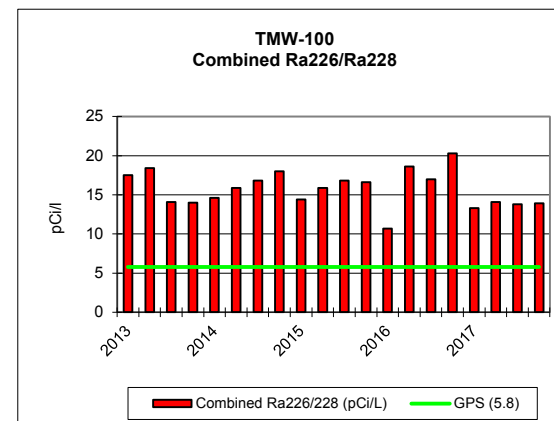
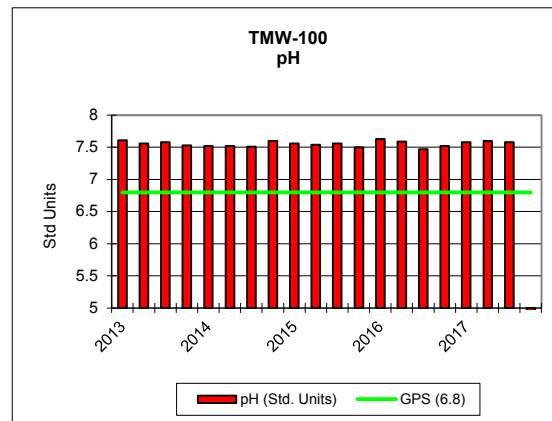
KENNECOTT URANIUM COMPANY															
TMW-99		2013				2014					2015				2016
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	3/5/2013	6/11/2013	9/9/2013	11/11/2013	2/24/2014	5/6/2014	8/12/2014	11/12/2014	3/30/2015	6/2/2015	9/2/2015	12/15/2015	3/15/2016	6/21/2016
TDS A/C Balance (dec. %)		2.57	0.459	0.411	0.753	1.15	0.59	0.54	0.02	2	5.77	2.03	1.84	0.85	4.43
Alk-CaCO3		133	136	134	121	129	130	130	120	127	126	123	126	119	128
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.002	0.003	0.003	0.001	0.003	0.004	0.002	0.002	0.003	0.002	0.002	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		162	166	163	148	157	158	158	146	155	155	150	153	145	156
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		477	479	477	299	419	495	500	289	427	418	470	254	306	464
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		40	41	36	26	38	41	39	25	45	41	35	21	27	35
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.041	0.041	0.025	0.016	0.023	0.033	0.032	0.015	0.022	0.032	0.021	0.011	0.01	0.024
Cond (umhos/cm)		2560	2470	2430	1720	2260	2460	2480	1670	2190	2570	2410	1520	1740	2400
Cond-Field (umhos/cm)		2400	1606	2580	2690	1993	2770	2480	1717	4140	2520	2520	1266	1974	2740
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	4.5	7.6	2.9	2.6	7.3	9.8	4.6	3	6.6	16.9	24.8	11.8	3.5	3.6
Iron (Fe)	GPS (0.6)	5.06	6.61	4.77	3.04	5.01	4.68	4.34	2.8	4.78	4.7	4.52	2.21	2.22	4.15
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.08	0.04	1.4	0.4	1.8	0.5	0.9	-0.05	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	0.55
Magnesium (Mg)		64.7	59.7	54.1	34.8	51	58.6	57.2	34.5	52.5	60.8	56.3	30.6	36.6	56.1
Manganese (Mn)	GPS (0.2)	0.74	0.7	0.63	0.43	0.56	0.65	0.65	0.38	0.58	0.58	0.61	0.35	0.4	0.6
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.05	0.04	0.04	0.02	0.03	0.05	0.04	0.02	0.03	0.05	0.04	0.01	0.02	0.03
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.07	7.05	7.08	7.2	7.22	7.05	7.1	7.29	7.21	7.19	7.26	7.33	7.34	7.19
pH (Field) (Std. Units)		7.4	7.3	7.16	7.07	7.3	7.4	7	7.33	7.28	7.07	6.9	7.28	6.99	6.28
Potassium (K)		6.3	6.3	6.5	4.9	5.9	6.1	6.6	5	6.5	6	6.2	4.5	5	6.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	19.2	15.8	17.1	11.8	17	16.3	15.1	11.6	16.2	15.2	16.6	10.1	7.84	15.2
Radium 226 (pCi/L)		3.8	3.8	2.8	2.9	3.8	4	3.1	3.8	4.1	3.3	2.9	1.9	0.24	2.9
Radium 228 (pCi/L)		15.4	12	14.3	8.9	13.2	12.3	12	7.8	12.1	11.9	13.7	8.2	7.6	12.3
Selenium (Se)	GPS (.01)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12	12	11.2	11.9	12.1	11.9	11.9	11.5	11.9	12.9	12.4	11.3	11.6	12.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
Sodium (Na)		96	92.6	83	65.8	85.2	87.9	90	65	89	95.8	85.7	58	66.5	84.8
TDS @ 180° C.	GPS (500)	2480	2350	2390	1440	2020	2330	2330	1400	2050	2350	2200	1260	1500	2210
Sulfate (SO4)		1340	1380	1350	832	1180	1410	1430	821	1300	1450	1310	740	890	1220
Temperature (C)		1.17	1.09	1.15	1.07	9.4	11.1	11.2	7.3	9.5	10.2	9.7	8	8.7	15.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	0.2	<0.2	0.2	0.03	0.03	0.04	0.07	0.03	0.07	0.3	-0.02	0.07	0.01
Uranium, natural (pCi/L)	GPS (36)	338	294	336	216	334	268	311	194	287	334	291	204	280	322
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	<0.01	<0.01	<0.01	0.05	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-99				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/11/2016	11/9/2016	2/28/2017	6/12/2017	9/13/2017	12/13/2017
TDS A/C Balance (dec. %)		1.65	0.4	2.04	-3.44	1.63	0.57
Alk-CaCO3		126	121	119	122	121	109
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.002	ND	0.001	0.002	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		153	148	145	149	148	133
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		439	385	290	402	389	263
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		38	33	29	46	37	25
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.019	0.017	0.01	0.021	0.017	0.01
Cond (umhos/cm)		2350	2180	1720	2300	2230	1580
Cond-Field (umhos/cm)		2580	2280	1781	2600	2520	1531
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	7.4	24.3	4.3	3.5	4	2.4
Iron (Fe)	GPS (0.6)	3.91	3.54	1.94	3.66	3.49	2.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.8	0.4	0.5	0.4
Lead (Pb)		0.4	0.8	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		52.2	47.2	34.5	50.2	47	31.6
Manganese (Mn)	GPS (0.2)	0.52	0.49	0.35	0.58	0.53	0.36
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.03	0.02	0.01	0.03	0.02	0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.18	7.21	7.44	7.19	7.25	7.81
pH (Field) (Std. Units)		7	7.2	6.97	6.67	7.09	7.11
Potassium (K)		5.8	5.7	4.9	5.3	5.3	4.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.2	13.9	8.9	11.6	13.4	9.2
Radium 226 (pCi/L)		3.1	3	2.3	3.3	3.1	2.4
Radium 228 (pCi/L)		9.1	10.9	6.6	8.3	10.3	6.8
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.4	11.9	12.3	12.8	11	10.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		79.2	76.6	67.3	76.2	75.9	58.9
TDS @ 180° C.	GPS (500)	2110	1850	1390	2080	1920	1300
Sulfate (SO4)		1310	1120	786	1240	1070	756
Temperature (C)		11.1	10.7	7.8	10.6	10.3	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		-0.004	-0.04	0.7	0.01	0.01	0.2
Uranium, natural (pCi/L)	GPS (36)	304	318	263	367	477	371
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	0.01	0.01



KENNECOTT URANIUM COMPANY															
TMW-100		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/29/2013	5/20/2013	8/13/2013	10/29/2013	2/3/2014	4/29/2014	8/11/2014	11/18/2014	2/10/2015	6/2/2015	8/12/2015	12/15/2015	2/15/2016	6/21/2016
TDS A/C Balance (dec. %)		2.97	1.99	0.287	-0.297	0.9	0.14	0.3	0.78	0.06	5.33	0.41	3.15	1.58	3.09
Alk-CaCO3		112	115	126	124	119	118	116	123	120	116	112	123	127	121
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.003	0.003	0.005	0.003	0.002	0.003	0.003	0.005	0.003	0.003	0.004	0.004	0.003	0.003
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		137	141	154	151	146	144	142	150	146	142	137	150	155	147
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		399	409	354	293	309	406	392	328	340	325	385	303	336	390
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		31	30	29	28	29	34	31	31	33	31	30	30	30	29
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.001	0.001	<0.001	1.001	<0.001
Cond (umhos/cm)		1990	2190	1870	1610	1750	2010	2010	1760	1810	2080	2100	1800	1730	2060
Cond-Field (umhos/cm)		2080	2210	2080	1640	1808	1685	1475	1732	1868	1776	715	1692	1800	2360
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	7	6.6	7.7	6	5.1	8.4	5.3	4.9	14.8	15.5	38	17.2	5.6	4.2
Iron (Fe)	GPS (0.6)	0.32	0.37	0.06	0.26	0.17	0.43	0.06	0.42	0.46	0.44	0.47	0.5	0.36	0.53
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.4	0.06	1.1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.4	0.93
Magnesium (Mg)		36.9	39.3	33.6	26.6	28.2	37.5	35.8	29.4	31.3	37.2	35.6	31.7	28.9	38.7
Manganese (Mn)	GPS (0.2)	0.24	0.27	0.23	0.18	0.19	0.23	0.24	0.21	0.21	0.24	0.25	0.25	0.21	0.26
Mercury (Hg)		<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.61	7.56	7.58	7.53	7.52	7.52	7.51	7.6	7.56	7.54	7.56	7.5	7.63	7.59
pH (Field) (Std. Units)		7.55	7.5	7.46	7.7	7.7	7.9	7.6	7.73	7.43	7.66	7.27	7.51	7.31	6.49
Potassium (K)		5.4	5.4	5	4.6	4.5	5.5	5.3	5.1	5	4.9	5.8	4.9	5	5.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.5	18.4	14.1	14	14.6	15.9	16.8	18	14.4	15.9	16.8	16.6	10.7	18.6
Radium 226 (pCi/L)		4.5	4.7	2.9	3.1	3.9	4.7	4.3	3.6	3.7	3.5	4.7	3.9	3.6	4.1
Radium 228 (pCi/L)		13	13.7	11.2	10.9	10.7	11.2	12.5	14.4	10.7	12.4	12.1	12.7	7.1	14.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.9	11.3	12	13.7	12.1	11.5	11.4	12.8	12.3	11.8	11.6	12.9	12.4	11.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		70.4	77.5	67.9	62.6	62.6	72.7	72.4	67.7	68.4	76	67.8	67.9	65.2	74.1
TDS @ 180° C.	GPS (500)	1770	1890	1660	1350	1490	1860	1780	1490	1560	1800	1790	1560	1490	1840
Sulfate (SO4)		1030	1100	962	792	853	1120	1090	873	928	1060	1070	894	865	1020
Temperature (C)		11.5	10.2	12.6	9.2	9.2	9.4	16.5	8.6	10.2	10.8	10.2	7.9	8.9	14.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	0.2	0.06	0.004	0.07	0.005	0.1	0.06	0.1	<0.2	0.08	-0.007
Uranium, natural (pCi/L)	GPS (36)	39.4	46.7	33.3	25.2	26.3	38.3	36.5	25.5	30.1	35.3	29.2	25.9	24.3	36.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-100				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	8/8/2016	11/9/2016	2/28/2017	6/6/2017	8/1/2017	11/7/2017
TDS A/C Balance (dec. %)		2.32	0.15	3.89	3.88	0.2	0.23
Alk-CaCO3		119	119	123	117	104	121
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.003	0.003	0.003	0.002	0.002	0.003
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		145	146	150	143	127	148
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		376	389	362	359	377	362
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		32	29	31	32	29	30
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		2.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2080	2110	1980	2040	1990	2010
Cond-Field (umhos/cm)		2580	2240	2250	2430	2270	2100
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	5.5	26.2	6.6	4.1	6.6	9.1
Iron (Fe)	GPS (0.6)	0.49	0.51	0.57	0.48	0.41	0.48
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	1.1	0.8	-0.6	0.2
Lead (Pb)		0.2	0.5	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		36.2	38.7	34.5	35.7	36.9	35.5
Manganese (Mn)	GPS (0.2)	0.24	0.26	0.24	0.25	0.26	0.25
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.47	7.52	7.58	7.6	7.58	
pH (Field) (Std. Units)		7.06	7.65	7.35	6.98	7.15	7.16
Potassium (K)		5.3	5.4	5.1	5.3	5	5.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	17	20.3	13.3	14.1	13.8	13.9
Radium 226 (pCi/L)		3.7	5.3	3.5	4.1	3.9	3.9
Radium 228 (pCi/L)		13.3	15	9.8	10	9.9	10
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		10.7	11.2	12.9	11.1	11.8	10.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		68.1	73.8	72.4	69.3	70.6	70.3
TDS @ 180° C.	GPS (500)	1820	1820	1640	1750	1800	1760
Sulfate (SO4)		1090	1100	916	1090	1060	999
Temperature (C)		13.3	10.9	8.3	9.6	10.4	8.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.001	0.03	0.1	0.2	-0.02	0.05
Uranium, natural (pCi/L)	GPS (36)	34.6	37.1	26.8	33.4	30.2	30.5
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.03	0.02	<0.01	0.01	<0.01	<0.01



KENNECOTT URANIUM COMPANY															
TMW-101		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/29/2013	5/20/2013	8/13/2013	10/29/2013	2/3/2014	4/29/2014	8/11/2014	11/19/2014	2/10/2015	6/2/2015	8/12/2015	12/16/2015	2/15/2016	6/22/2016
TDS A/C Balance (dec. %)		5	4.28	0.473	1.14	1.99	2.28	0.44	1.14	0.82	1.61	1.08	2.19	2.58	0.86
Alk-CaCO3		93	95	93	93	92	95	93	92	91	94	92	96	107	99
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		114	116	114	113	112	115	114	112	111	114	112	117	131	120
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		104	116	94.1	70.8	67.8	83.8	84.6	40	62.6	82.9	85.3	57.1	33	73.2
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		11	13	12	9	9	11	11	5	8	11	10	6	3	
Chromium (Cr)	GPS (.05)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		707	827	714	601	592	649	664	408	527	708	664	516	334	607
Cond-Field (umhos/cm)		726	894	790	642	715	755	860	416	608	674	690	504	340	683
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	1.7	2.6	1.9	2.3	1.3	2.1	1.6	-0.2	4.6	3.4	8.4	2.8	0.6	1.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.2	<1	1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.4	-0.099
Magnesium (Mg)		8.9	9.7	7.9	5.6	5.6	7.2	7.4	3.2	5.1	7.9	7.1	4.6	2.3	6.4
Manganese (Mn)	GPS (0.2)	0.04	0.06	0.06	0.04	0.03	0.04	0.05	0.02	0.03	0.05	0.05	0.03	0.01	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.95	7.94	7.94	7.89	7.9	7.92	7.95	8.13	7.99	7.88	7.98	7.99	8.17	8.05
pH (Field) (Std. Units)		7.62	7.9	7.34	8.2	7.9	8.6	8.3	8.15	7.98	8.18	8.03	8.08	8.15	6.98
Potassium (K)		2.2	2.5	2.4	2.2	1.9	2.1	2.2	1.7	1.9	2.2	2.3	1.8	2.1	2
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.3	6	5	4.5	4	3.9	6.8	3.08	4.56	4.6	4.6	5.6	0.91	3
Radium 226 (pCi/L)		1.8	1.7	1.5	1.4	1.2	1.2	1.2	0.88	0.86	1.2	1.3	1	0.51	1.4
Radium 228 (pCi/L)		3.5	4.3	3.5	3.1	2.8	2.7	5.6	2.2	3.7	3.4	3.3	4.6	0.4	1.6
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.1	11.8	11.7	12.2	10.8	11.1	11.4	11.2	11	11.5	10.1	10.7	8.9	11.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		46.2	56.7	50.7	49.2	43.5	43.7	47	40.2	43.2	49.2	46.4	41.9	39	44.8
TDS @ 180° C.	GPS (500)	479	578	498	401	389	456	457	281	343	481	441	344	204	416
Sulfate (SO4)		243	293	256	190	188	232	231	104	160	241	223	153	73	185
Temperature (C)		11.3	10.1	12.4	9.6	9.4	9.6	12.6	10	9.8	10.7	10.4	8.8	9.7	13.8
Thallium (Tl)	GPS (7.0)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Thorium 230 (pCi/L)		<0.02	0.07	0.1	0.4	0.07	0.05	0.03	0.002	0.0008	0.008	0.009	0.008	0.04	0.07
Uranium, natural (pCi/L)	GPS (36)	9.6	10.2	7.7	6	5.8	6.8	7.7	4.9	5.3	9	6.9	4.1	3.3	5.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-101				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	8/2/2016	11/9/2016	3/6/2017	6/6/2017	8/1/2017	11/7/2017
TDS A/C Balance (dec. %)		1.47	0.08	1.12	5.04	3.63	0.88
Alk-CaCO3		96	97	93	94	85	98
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		118	119	113	115	104	118
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		79.4	75.9	54.8	80.5	75.5	83.2
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		10	9	7	11	9	10
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		647	627	514	686	617	666
Cond-Field (umhos/cm)		813	672	542	894	791	1300
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2.5	6.8	2.2	1.4	1.9	2.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.6	0.6	-0.01	0.9
Lead (Pb)		0.07	0.3	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		6.9	6.5	4.5	6.8	6.5	7.3
Manganese (Mn)	GPS (0.2)	0.04	0.03	0.03	0.05	0.04	0.05
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.93	8.01	8.09	7.98	8.01	7.96
pH (Field) (Std. Units)		7.31	8.43	8.56	9	9.78	7.81
Potassium (K)		2.1	2.1	1.9	2	1.9	2.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.3	3.9	4.8	4.3	5.1	3.4
Radium 226 (pCi/L)		1.4	1.4	1	1.1	1.2	1.3
Radium 228 (pCi/L)		4.9	2.5	3.8	3.2	3.9	2.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.1	11.4	11.4	10.4	11.6	11.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		46	47.8	45.5	44.1	45.7	47.2
TDS @ 180° C.	GPS (500)	454	418	332	469	426	444
Sulfate (SO4)		219	204	153	243	189	216
Temperature (C)		13.4	10.9	8.6	9.4	10	8.5
Thallium (Tl)	GPS (7.0)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Thorium 230 (pCi/L.)		0.04	0.04	0.3	0.3	0.04	0.02
Uranium, natural (pCi/L)	GPS (36)	6.4	6	3.5	7.4	6.5	6.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.03	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY															
TMW-102		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/19/2013	4/29/2013	7/23/2013	10/21/2013	1/27/2014	4/22/2014	7/22/2014	10/28/2014	1/26/2015	5/4/2015	7/22/2015	12/2/2015	2/16/2016	4/13/2016
TDS A/C Balance (dec. %)		4.7	8.95	6.96	5.7	5	14.7	12.3	2.94	3.24	6.11	7.75	4.31	2.26	3.87
Alk-CaCO3		116	97	119	111	117	90	96	141	132	107	108	92	44	39
Aluminum (Al)	GPS (1.8)	0.7	0.8	0.9	0.9	0.8	0.9	1	1	1	0.8	0.8	1	0.2	0.3
Arsenic (As)	GPS (.05)	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		51.6	51	52.3	49.9	52.5	55	55.6	56.7	55.5	55.2	55.4	35.8	22.6	22.4
Carbonate (CO3)		26	27	31	31	28	28	28	56	31	28	37	27	25	23
Chloride (Cl)		3	3	3	3	3	3	3	3	3	3	3	3	3	3
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		596	655	628	658	642	644	666	614	641	654	650	611	325	283
Cond-Field (umhos/cm)		588	615	629	723	561	609	570	730	636	724	395	799	305	305
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	1	0.9	1.1	0.8	1.1	0.7	0.8	0.9	2.6	0.2	1.3	0.5	0.7	1.9
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	0.1
Magnesium (Mg)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	<0.1	0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	11.3	11.4	11.2	11.3	11.3	11.3	11.3	11.2	11.4	11.3	11.2	11.3	10.8	10.5
pH (Field) (Std. Units)		12.9	12.6	13.55	13.5	12.8	13	13.7	11.14	11.24	12.38	13.33	11.72	11.22	11.32
Potassium (K)		6.9	5.1	6.1	6.7	6.1	6.5	6.1	6.6	6	5.5	6.2	4.6	3.6	4.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	-0.33	0.09	1.02	1.8	1.56	1.54	5.1	2.53	1.08	1.47	1.44	1.88	0.8	4.8
Radium 226 (pCi/L)		0.67	0.69	1.1	1.1	0.66	0.74	1	0.83	0.98	0.67	0.94	0.58	1	1.5
Radium 228 (pCi/L)		-1	-0.6	-0.08	0.7	0.9	0.8	4.1	1.7	0.1	0.8	0.5	1.3	-0.2	3.3
Selenium (Se)	GPS (.01)	0.002	0.001	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.002	<0.001
Silica (SiO2)		32	30.7	29	29.9	29	28.5	28	28.5	27.9	26.7	25.9	23.2	18.2	19.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		34.3	33.2	28.6	33.5	33.1	34.8	33.4	34.7	34.9	27.5	30.8	24.9	28.4	33
TDS @ 180° C.	GPS (500)	263	283	274	271	266	259	269	271	268	263	258	226	186	177
Sulfate (SO4)		69	67	66	65	66	67	67	64	68	66	67	65		77
Temperature (C)		8.1	10.7	11.2	11.6	7.7	10.5	13.6	10.1	8.8	10.4	10.6	11.74	8.8	10.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.2	<0.2	<0.2	<0.2	0.06	0.03	0.07	0.2	0.03	0.07	0.07	0.1	0.07	0.08
Uranium, natural (pCi/L)	GPS (36)	0.2	0.5	0.2	0.2	<0.2	0.3	<0.2	0.3	0.3	<0.2	<0.2	6.2	0.9	4.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01

KENNECOTT URANIUM COMPANY						
TMW-102				2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/27/2016	10/12/2016	3/21/2017	7/18/2017	10/16/2017
TDS A/C Balance (dec. %)		0.73	0.94	0.41	4.59	2.69
Alk-CaCO3		82	51	25	28	32
Aluminum (Al)	GPS (1.8)	0.6	0.3	0.1	0.1	0.2
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		<1	<1	11	8	<1
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		37.6	25.6	24.2	22.5	26.9
Carbonate (CO3)		33	30	9	13	18
Chloride (Cl)		4	4	4	4	4
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		464	326	301	307	324
Cond-Field (umhos/cm)		501	347	307	320	356
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.2	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.6	2.1	0.6	0.8	0.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.2	1.1	0.7
Lead (Pb)		0.05	-0.3	<0.01	<0.01	<0.01
Magnesium (Mg)		<0.5	<0.5	0.7	0.6	0.5
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	11.2	10.7	10.2	10.2	10.6
pH (Field) (Std. Units)		12.35	13.19	9.74		10.6
Potassium (K)		5.2	4.2	3.5	3.2	3.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.7	5.35	2.35	2.6	2.8
Radium 226 (pCi/L)		1.8	0.95	0.75	0.8	0.7
Radium 228 (pCi/L)		0.9	4.4	1.6	1.8	2.1
Selenium (Se)	GPS (.01)	0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		20.7	18.8	17	16.4	18.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		32.5	29.9	30.8	28	31.1
TDS @ 180° C.	GPS (500)	259	187	196	181	184
Sulfate (SO4)		78	78	98	97	92
Temperature (C)		15.9	9.3	10.5	16.1	6.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.03	0.05	-0.001	0.04	0.1
Uranium, natural (pCi/L)	GPS (36)	1.6	0.6	1.5	0.7	0.7
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY																	
TMW-103		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/2/2013	7/7/2013	10/14/2013	1/13/2014	4/7/2014	7/8/2014	10/29/2014	1/26/2015	4/22/2015	7/22/2015	11/16/2015	2/17/2016	4/11/2016	7/31/2016	10/19/2016
TDS A/C Balance (dec. %)		1.87	0.758	1.33	-0.279	0.806	0.03	0.36	0.8	0.69	0.07	1.93	0.52	1.64		4.27	1.29
Alk-CaCO3		24	24	25	28	25	27	24	23	26	22	23	13		26	27	23
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.001	0.002	0.001	0.003	0.002	<0.001	0.003	0.003	0.002	0.002	0.003	0.002	0.001	0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		29	30	31	34	31	33	30	28	32	27	28		30	32	33	28
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		429	408	405	424	399	410	404	411	421	419	427	414	397	415	434	413
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		145	139	124	128	123	123	127	129	131		127	131	128	122	117	123
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2250	2220	2260	2250	2220	2230	2260	2250	2250	2290	2290	2250	2240	2210	2230	2320
Cond-Field (umhos/cm)		2300	2390	2370	2510	2530	2320	2170	2330	2060	2140	2190	2410	2550	2500	2510	2520
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	2.2	0.2
Gross Alpha (pCi/L)	GPS (15)	8.6	8.4	8.7	7.5	8.3	10.3	10.6	11.2	27	60.8	37.6	20.2	11.6	31.3	9.7	12.7
Iron (Fe)	GPS (0.6)	<0.05	0.13	0.07	0.13	0.09	0.1	<0.05	0.14	0.12	<0.05	0.14	0.11	0.07	<0.05	0.09	0.14
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.02	0.5	0.9	0.5	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.1	0.7	0.5	0.1
Magnesium (Mg)		32.5	31	31.5	30.3	31.9	30	30.9	31.8	30.6	31.2	31	31	29.7	33.1	30.6	30.7
Manganese (Mn)	GPS (0.2)	0.15	0.15	0.15	0.16	0.16	0.15	0.14	0.14	0.13	0.14	0.13	0.13	0.12	0.13	0.13	0.12
Mercury (Hg)		<0.0002	0.0003	0.0003	0.0003	0.0005	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0004	0.0003	<0.0002	0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.52	7.53	7.54	7.57	7.45	7.61	7.6	7.58	7.58	7.49	7.55	7.59	7.69		7.59	7.62
pH (Field) (Std. Units)		6.78	7.4	8	6.9	6.5	10.5	8.3	7.21	7.86	7.82	7.88	7.82	7.86	7.5	6.6	7.88
Potassium (K)		5.9	5.7	6.2	5.8	5.8	5.7	6	6.1	5.9	5.9	6.6	5.9	5.6	7	5.7	6.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	33.7	30.8	33	26.1	35.1	37.8	29.7	28	35.1	26.4	25.3	27	23.2	12.8	21.8	23
Radium 226 (pCi/L)		7.6	7.4	9.6	6.5	9.4	9.7	7.7	7.7	9.9	8.8	7.6	7.1	6.6	11	6.4	7.5
Radium 228 (pCi/L)		26.1	23.4	23.4	19.6	25.7	28.1	22	20.3	25.2	17.6	17.7	19.9	16.6	1.8	15.4	15.5
Selenium (Se)	GPS (.01)	0.002	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.001	<0.002	1.001	<0.003	0.002	<0.003	0.002	0.002	0.004
Silica (SiO2)		9.3	9.1	9.2	8.8	8.8	9.7	8.2	8	8	8	8.1	7.8	7.3	8.8	7.9	7.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		96.6	94.1	97.7	90.2	96.2	87.9	96.5	99.4	100	96	97.4	97.1	92.7	97.3	95.1	98.6
TDS @ 180° C.	GPS (500)	1970	1880	1940	1990	1960	1900	1970	1950	1950	1970	1960	1950	1930	1940	1950	1900
Sulfate (SO4)		1100	1070	1080	1140	1080	1100	1090	1110	1130	1130	1110	1120	1110		1060	1100
Temperature (C)		9.5	11.3	13.7	9.5	8.1	7.5	13.5	10.8	10.1	9.6	10	9.9	9	9.9	16	10.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.03	0.03	<0.01	0.06	0.2	0.2	0.09	0.2	0.05	0.3	0.07	0.2	0.05	0.05	0.03	0.009
Uranium, natural (pCi/L)	GPS (36)	9.4	5.6	7.1	7.9	11.6	10.1	9.3	13.1	15.3	14.2	12.9	16	16.8	11.2	10.7	17.2
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.02	0.02	0.02	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.07

KENNECOTT URANIUM COMPANY					
TMW-103		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/21/2017	4/18/2017	7/18/2017	10/18/2017
TDS A/C Balance (dec. %)		0.8	0.28	2.52	0.34
Alk-CaCO3		23	23	21	23
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	<0.001	0.002	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		29	28	26	28
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		423	409	366	371
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		125	126	127	115
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.001	<0.001	<0.001
Cond (umhos/cm)		2340	2290	2250	2270
Cond-Field (umhos/cm)		2500	2230	2310	2430
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	12.9	17.5	9.4	9.7
Iron (Fe)	GPS (0.6)	0.14	0.1	0.1	0.11
Lead (Pb210) (pCi/L)	GPS (8.9)	0.4	1.1	1.5	1.3
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		32.7	31.5	28.9	27.7
Manganese (Mn)	GPS (0.2)	0.14	0.14	0.12	0.13
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.64	7.68	7.63	7.52
pH (Field) (Std. Units)		7.86	6.88	7.11	7.8
Potassium (K)		6.1	6.5	7	5.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	25.5	32	24.4	29.5
Radium 226 (pCi/L)		7.2	8.1	6.8	9.6
Radium 228 (pCi/L)		18.3	23.9	17.6	19.9
Selenium (Se)	GPS (.01)	0.002	0.002	0.002	0.002
Silica (SiO2)		8.3	8.7	8	7.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		101	97.3	94.1	93.5
TDS @ 180° C.	GPS (500)	1920	1930	1880	1900
Sulfate (SO4)		1150	1110	1070	1010
Temperature (C)		10	11	13	11.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.08	0.01	0.01	0.06
Uranium, natural (pCi/L)	GPS (36)	16.3	27	36.2	33
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01

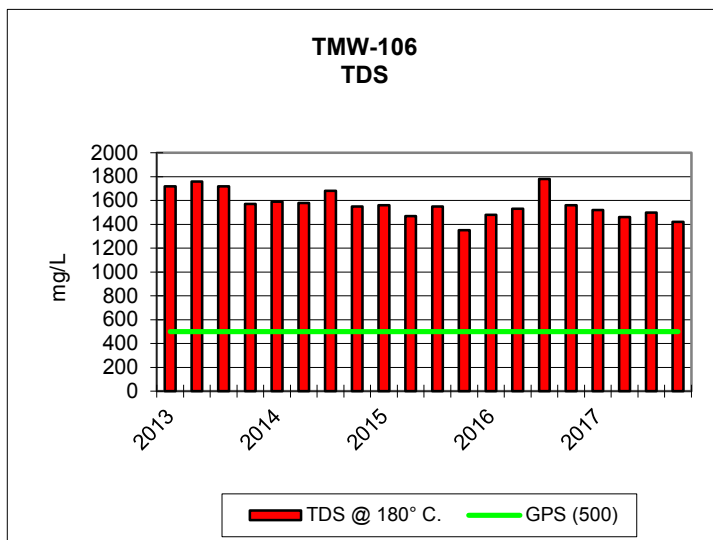
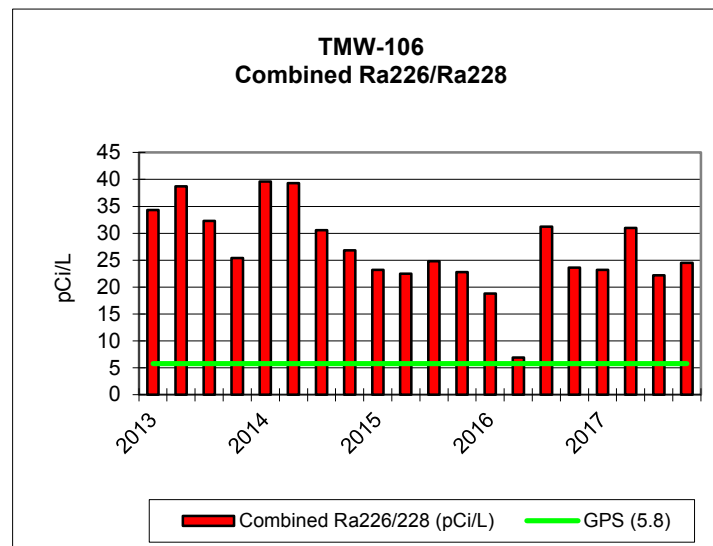
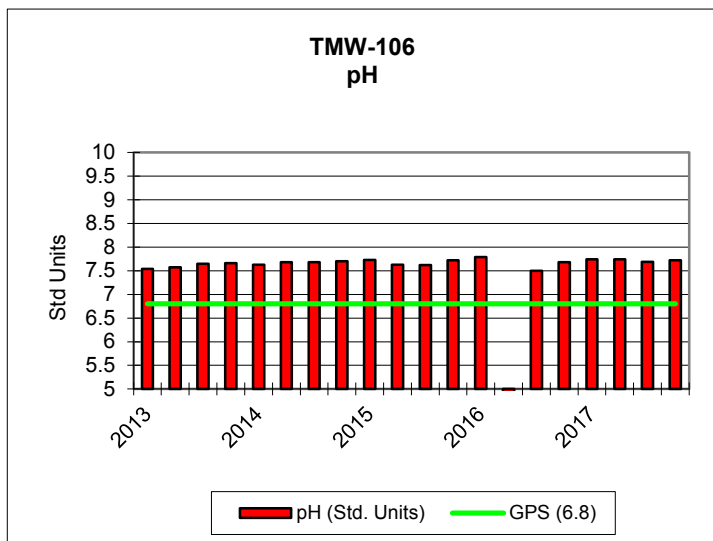
KENNECOTT URANIUM COMPANY															
TMW-104		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/28/2013	6/11/2013	8/13/2013	10/29/2013	2/3/2014	4/8/2014	7/15/2014	11/19/2014	2/3/2015	6/3/2015	8/12/2015	12/16/2015	2/15/2016	6/22/2016
TDS A/C Balance (dec. %)		1.17	0.741	2.52	1.46	2.65	0.54	1.22	0.23	0.13	0.04	0.73	2.07	0.29	2.55
Alk-CaCO3		121	115	130	126	124	119	123	124	119	121	122	110	125	128
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		147	141	159	153	152	145	150	151	145	147	149	134	153	156
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		228	328	320	239	210	273	324	255	216	314	318	259	226	325
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		19	26	24	19	20	24	27	21	19	26	26	21	19	24
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1260	1730	1680	1350	1310	1520	1760	1460	1270	1760	1780	1450	1290	1770
Cond-Field (umhos/cm)		1284	1756	1851	1390	1386	1627	1773	1497	1291	1785	1750	846	1335	1946
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1	<0.1	0.2	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	4	6.3	5.6	3.8	2.2	2.4	2.6	3.3	5.7	20.2	36.6	7.4	3.1	3.7
Iron (Fe)	GPS (0.6)	<0.05	0.2	<0.05	0.06	<0.05	<0.05	<0.05	0.06	0.13	0.13	0.18	0.15	0.14	0.09
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.05	<1	0.7	<1	0.6	0.4	-0.7	-0.7	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	-0.004
Magnesium (Mg)		18	25.1	24.7	18.3	15.5	20.5	27.8	19.7	15.8	24	24.5	19.6	16.7	25.2
Manganese (Mn)	GPS (0.2)	0.12	0.17	0.18	0.13	0.12	0.13	0.19	0.15	0.12	0.17	0.17	0.15	0.13	0.18
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0003	<0.0004	<0.0005	<0.0006	<0.0007	<0.0008
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	1.01	2.01	3.01	4.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.6	7.6	7.59	7.62	7.65	7.62	7.84	7.62	7.53	7.63	7.61	7.73	7.65
pH (Field) (Std. Units)		7.59	7.6	7.48	7.9	7.9	7.8	7.8	7.44	7.6	7.62	7.24	7.59	7.5	6.59
Potassium (K)		4.1	4.8	5	4.2	3.7	4.6	5.2	4.3	4.2	5	5.2	4.4	4.3	4.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.7	14.4	13.3	11	11.2	14.6	19.7	12.2	8.5	11.6	16.8	10.1	7.1	15.3
Radium 226 (pCi/L)		3.9	3.8	2.9	2.2	2.1	4.2	3.3	2.9	1.6	2.7	3.2	2.4	1.9	2.5
Radium 228 (pCi/L)		13.8	10.6	10.4	8.8	9.1	10.4	16.4	9.3	6.9	8.9	13.6	7.7	5.2	12.8
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.1	12	13	13.9	11.7	10.7	13.8	12.6	12.5	12.6	12.5	13	12.3	12.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		57.4	69.2	70.3	57.8	52.9	64.2	73	59.7	57.4	68.4	67.4	61.6	56.1	69.8
TDS @ 180° C.	GPS (500)	1010	1520	1430	1080	1030	1270	1470	1190	1000	1460	1460	1180	1020	1510
Sulfate (SO4)		584	874	811	604	570	739	917	676	564	846	868	666	580	823
Temperature (C)		10.3	12.3	13.1	8.8	11.5	9.5	12.1	9.7	8.7	9.5	10.9	7.7	8.2	13.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.03	0.07	0.2	0.02	0.07	0.1	0.03	0.005	0.02	-0.01
Uranium, natural (pCi/L)	GPS (36)	11.1	16.6	15.9	12.2	9.9	12.2	16.8	15.5	10.9	13.9	13.1	10.6	11.5	13.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-104				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	8/2/2016	11/15/2016	2/27/2017	6/7/2017	8/1/2017	11/7/2017
TDS A/C Balance (dec. %)		1.29	0.74	0.73	1.24	1.03	1.06
Alk-CaCO3		124	125	122	122	116	133
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		151	152	149	148	142	162
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		321	328	243	344	334	281
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		25	25	21	28	25	23
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1750	1770	1510	1790	1790	1660
Cond-Field (umhos/cm)		2030	1952	1644	2020	1961	1960
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	6.5	3.1	4	3.9	4.8	6.1
Iron (Fe)	GPS (0.6)	0.18	0.24	0.14	0.21	0.24	0.19
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.7	0.2	-0.3	0.5
Lead (Pb)		0.08	0.8	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		24.6	25.4	18.6	26.6	25.8	21.8
Manganese (Mn)	GPS (0.2)	0.18	0.19	0.14	0.18	0.19	0.16
Mercury (Hg)		<0.0009	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Molybdenum (Mo)		0.02	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.57	7.57	7.71	7.6	7.65	7.67
pH (Field) (Std. Units)		7.04	7.72	8.15	7.09	6.89	7.49
Potassium (K)		5	5.1	4.4	5.1	4.8	4.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	13.6	13	8.8	11.4	10.8	12.5
Radium 226 (pCi/L)		3.2	2.9	2.2	4.4	3.7	2.6
Radium 228 (pCi/L)		10.4	10.1	6.6	7	7.1	9.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.8	12.5	12.9	13	13.2	12.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		69.6	70.2	59.6	71.4	69.6	64.6
TDS @ 180° C.	GPS (500)	1490	1510	1160	1520	1540	1370
Sulfate (SO4)		838	894	629	903	886	761
Temperature (C)		13.3	10.4	7.3	9	10	8.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		-0.007	0.9	0.1	-0.08	-0.005	0.05
Uranium, natural (pCi/L)	GPS (36)	13	14.1	10.6	14.9	14.1	12.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.02

KENNECOTT URANIUM COMPANY													
TMW-105		2004				2005						2006	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/19/2004	4/12/2004	7/13/2004	10/12/2004	1/12/2005	4/11/2005	7/18/2005	10/5/2005	10/31/2005	1/19/2006	Final well sample collected on January 19, 2006. The well was subsequently removed by Catchment Basin excavation.	
TDS A/C Balance (dec. %)		1.02	1.13	1.23	1.13	1.1	1.14	1.08	1.1	1.05	1.13		
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aluminum (Al)	GPS (1.8)	<0.1	2.4	2.9	2.8	1.3	3.7	3.5	2.8	2.6	1.1		
Alk-CaCO3		39.5	1.6	<1	<1	20	<1	<1	2	<1	5		
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.002	0.001	0.002	0.003	0.001	0.001	0.001	0.001		
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Boron (B)		<0.1	0.16	0.2	0.2	<0.1	<0.1	0.1	0.1	0.2	<0.1		
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Calcium (Ca)		168	303	334	328	322	333	429	406	427	310		
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Chloride (Cl)		23	67.3	56	66	54	84	113	118	128	89		
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Cobalt (Co)		0.067	0.136	0.16	0.153	0.117	0.184	0.193	0.197	0.202	0.177		
Chromium (Cr)	GPS (.05)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Copper (Cu)		<0.01	0.01	0.03	0.02	<0.01	0.02	0.04	0.03	0.03	0.14		
Cond (umhos/cm)		1300	2180	5840	2380	2040	2410	2700	2710	2890	2330		
Cond-Field (umhos/cm)		800	1120	580	1140	980	1400	1240	980		860		
Fluoride (F)		0.2	0.4	0.4	0.4	0.3	0.4	0.4	0.5	<0.1	0.4		
Iron (Fe)	GPS (0.6)	9.41	50.5	50	49.1	30.3	58.3	57.5	57.5	56.8	57.4		
Gross Alpha (pCi/L)	GPS (15)	19.1	22.4	23.6	14.9	12.8	14.7	27.7	15.9	18.2	8.8		
Bicarbonate (HCO3)		48.2	1.9	<1	<1	25	<1	<1	3	<1	6		
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
Potassium (K)		5.8	6.5	6	6.9	6.8	7.2	6.4	7	7.2	7.4		
Magnesium (Mg)		24.8	51.4	62.9	49.6	51.7	54	64.8	67.3	68.7	48.2		
Manganese (Mn)	GPS (0.2)	1.09	2.26	2.54	2.58	2.19	3.07	3.21	3.22	3.42	2.45		
Molybdenum (Mo)		<0.01	<0.01	<0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Sodium (Na)		60.5	73	92	70	71.5	84	106	107	104	85.9		
Nickel (Ni)	GPS (.01)	0.08	0.13	0.15	0.17	0.13	0.19	0.21	0.2	0.23	0.2		
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Lead (Pb)		<0.01	0.04	<0.03	0.04	0.03	0.05	0.04	0.03	0.03	0.05		
pH (Std. Units)	GPS (6.8)	6.54	4.7	2.01	4.66	5.5	4.54	4.39	4.99	4.85	5.11		
pH (Field) (Std. Units)		6.8	3.6	51	3.7	4.4	3.9	3.5	4.38		5.15		
Radium 226 (pCi/L)		18.7	10.7	14.1	12	9.5	11.9	18.3	16.7	13.4	6.3		
Combined Ra226/228 (pCi/L)	GPS (5.8)	22.4	36.5	27.2	25	18.6	26.2	35.3	37	29.1	16.6		
Radium 228 (pCi/L)		3.7	25.8	13.1	13	9.1	14.3	17	20.3	15.7	10.3		
Selenium (Se)	GPS (.01)	0.01	0.013	0.018	0.021	0.01	0.054	0.064	0.083	0.086	0.031		
Silica (SiO2)		28	53.1	51	53	43	50	55	52	51	44		
Sulfate (SO4)		637	1160	1290	1060	1100	1210	1490	1440	1500	1160		
TDS @ 180° C.	GPS (500)	964	1880	2330	1850	1830	2080	2430	2420	2400	1980		
Temperature (C)		8	19	40	27	10	18	32	11.3		9.5		
Thorium 230 (pCi/L)	GPS (7.0)	<0.2	<0.2	<0.2	<0.2	1.1	<0.2	3.9	<0.2	0.6	<0.2		
Thallium (Tl)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Uranium, natural (pCi/L)	GPS (36)	228	858	692	741	560	582	1100	569	687	183		
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Zinc (ZN)		0.17	0.43	0.77	0.74	0.5	0.7	0.72	0.67	0.67	0.69		

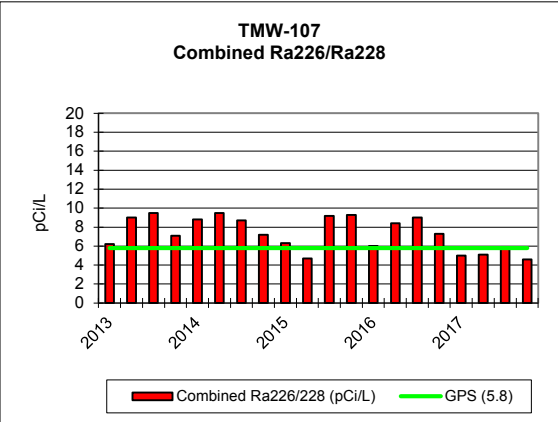
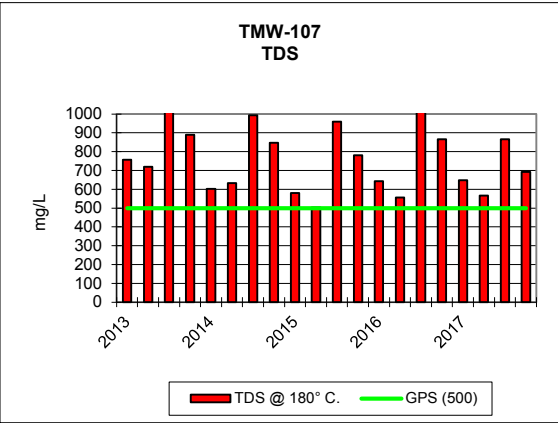
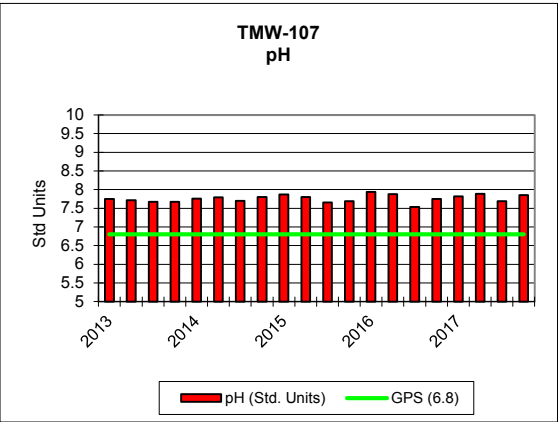
KENNECOTT URANIUM COMPANY																	
TMW-106		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/2/2013	7/7/2013	10/14/2013	1/13/2014	4/7/2014	7/8/2014	10/29/2014	1/26/2015	4/22/2015	7/22/2015	11/16/2015	2/17/2016	4/11/2016	7/31/2016	10/13/2016
TDS A/C Balance (dec. %)		1.76	1.98	1.54	0.385	1.49	1.97	0.23	0.73	1.25	0.53	1.64	0.06	3.97		4.39	1.19
Alk-CaCO3		32	29	35	44	41	39	45	43	44	46	42	51	47	43	30	42
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.001	0.002	0.001	0.003	0.002	<0.001	0.002	0.002	0.003	0.002	0.002	0.001	0.001	0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		39	35	42	54	50	48	55	52	53	56	52	62	57	53	36	51
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		382	409	360	344	337	336	352	341	323	316	319	286	288	331	389	324
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		128	136	121	110	110	116	121	113	111	103	109	92	102	106	122	112
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		2050	2080	2030	1870	1880	1930	2000	1890	1870	1810	1890	1660	1800	1820	2080	1930
Cond-Field (umhos/cm)		2140	2320	2250	2130	2140	2180	2040	1924	1928	1880	2050	1834	2100	2060	2520	2090
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	9.2	11.2	11.4	8.1	7.9	9.6	11.5	11.6	27.1	43.4	27.1	15	9.6	29.7	11	14.4
Iron (Fe)	GPS (0.6)	<0.05	0.13	0.12	0.17	0.15	0.14	0.05	0.18	0.17	0.17	0.2	0.13	0.15	<0.05	0.15	0.18
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.5	0.9	0.7	1.1	-0.4	0.01	0.3	0.2	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.8	0.4	0.7
Magnesium (Mg)		30.3	28.5	28.2	24.7	26.2	24.6	27	26.3	24.7	24	24.5	22.2	22.7	26.4	28.7	25.7
Manganese (Mn)	GPS (0.2)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.11	0.11	0.11	0.1	0.1	0.11	0.12	0.11
Mercury (Hg)		<0.0002	0.0004	0.0004	0.0003	0.0004	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0004	0.0003	0.0003
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.54	7.57	7.65	7.66	7.63	7.68	7.68	7.7	7.73	7.63	7.62	7.72	7.79		7.5	7.68
pH (Field) (Std. Units)		7.07	7	8	7.8	7.8	8.2	8.4	7.57	7.77	7.83	7.87	7.89	7.75	7.78	6.89	7.82
Potassium (K)		5.8	5.4	5.9	5.4	5	5.1	5.5	5.3	5.2	5.1	5.6	4.8	4.5	6	5.5	5.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	34.3	38.7	32.3	25.4	39.6	39.3	30.6	26.8	23.2	22.5	24.8	22.8	18.8	6.9	31.2	23.6
Radium 226 (pCi/L)		11	9.7	11	8.2	11	11	8.5	7	10	8.9	7.9	6.1	7.4	6.1	8	7.7
Radium 228 (pCi/L)		23.3	29	21.3	17.2	28.6	28.3	22.1	19.8	13.2	13.6	16.9	16.7	11.4	0.8	23.2	15.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001
Silica (SiO2)		9.4	9.1	9.8	9.8	9.9	10.7	9.3	10	10.2	10.1	10.1	10.7	9.4	10.6	8.5	9.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		84.3	81.9	85.4	74.6	79	72.5	82.3	81.5	81.7	76.5	77	71.4	70.1	79.9	84.2	80.8
TDS @ 180° C.	GPS (500)	1720	1760	1720	1570	1590	1580	1680	1550	1560	1470	1550	1350	1480	1530	1780	1560
Sulfate (SO4)		973	1010	927	884	861	908	925	889	882	823	874	754	826	830	932	887
Temperature (C)		10.3	11.1	11.6	9.2	9.2	9.8	12.1	10.3	9.3	9.2	9.5	8.6	9	9.1	13.2	11.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.0006	0.005	0.02	0.1	0.2	0.2	0.08	0.2	0.03	0.1	0.02	0.04	0.05	0.03	0.06	-0.04
Uranium, natural (pCi/L)	GPS (36)	14.9	10.6	14	14.1	13.5	12.9	13.1	17.7	12.8	11.3	12.5	13.8	10.4	11	17.3	13.9
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12

KENNECOTT URANIUM COMPANY					
TMW-106		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/21/2017	4/18/2017	7/19/2017	10/18/2017
TDS A/C Balance (dec. %)		1.41	0.87	0.87	0.11
Alk-CaCO3		40	46	43	47
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	<0.001	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		49	56	52	57
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		329	300	302	276
Carbonate (CO3)		<1	<1	<1	<1
Chloride (Cl)		111	99	100	92
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1940	1800	1810	1770
Cond-Field (umhos/cm)		2300	2350	2330	2340
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	12.8	14.2	9.4	9.7
Iron (Fe)	GPS (0.6)	0.18	0.14	0.14	0.12
Lead (Pb210) (pCi/L)	GPS (8.9)	0.2	0.7	1.3	1.4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		26.2	23.7	23.3	20.8
Manganese (Mn)	GPS (0.2)	0.13	0.11	0.11	0.12
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.74	7.74	7.69	7.72
pH (Field) (Std. Units)		7.99	8.29	7.36	7.86
Potassium (K)		5.1	5	4.9	4.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	23.2	31	22.2	24.5
Radium 226 (pCi/L)		7.6	5.8	7.1	8.6
Radium 228 (pCi/L)		15.6	25.2	15.1	15.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		10.3	10.9	9.5	11.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		79.6	74.3	75.5	68.3
TDS @ 180° C.	GPS (500)	1520	1460	1500	1420
Sulfate (SO4)		906	811	785	720
Temperature (C)		9	9.5	12.3	9.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.06	-0.002	0.07	-0.01
Uranium, natural (pCi/L)	GPS (36)	15.6	14	16	19.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.01



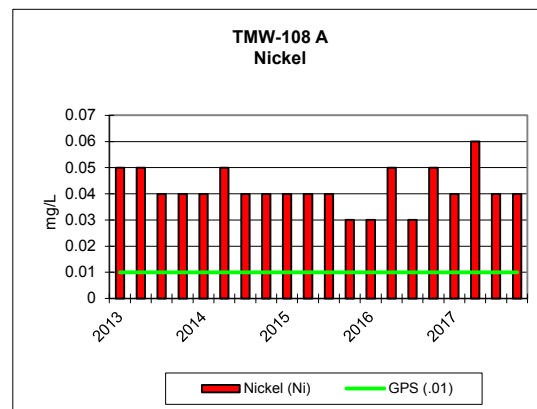
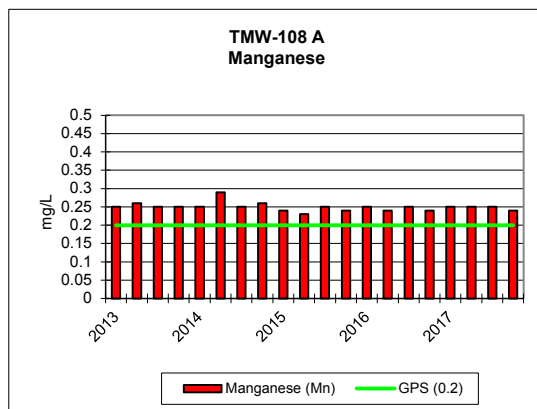
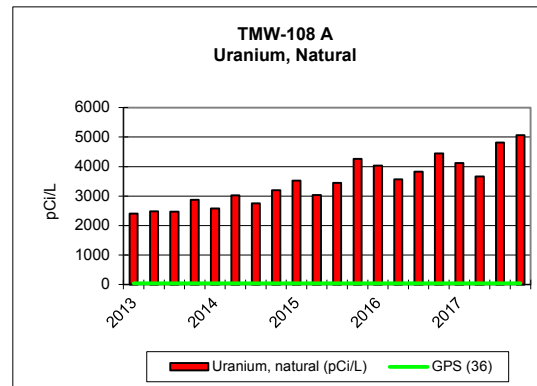
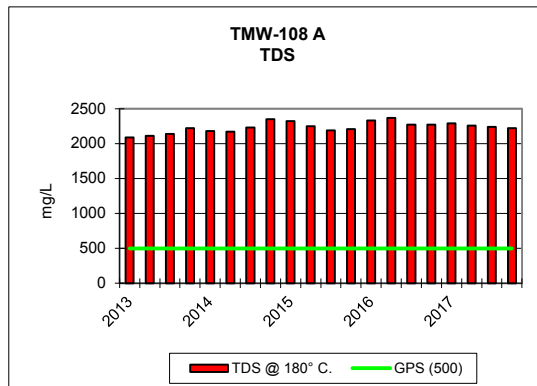
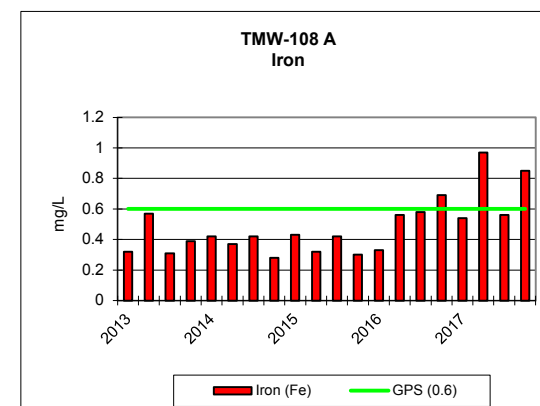
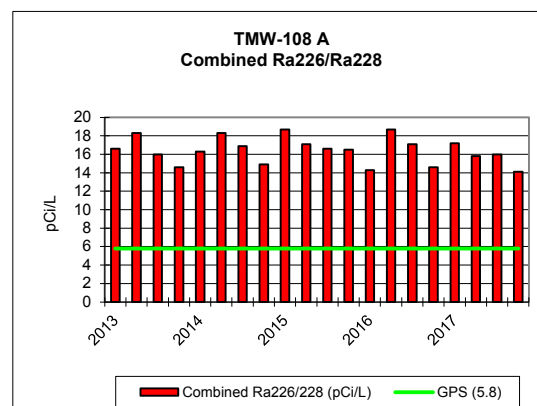
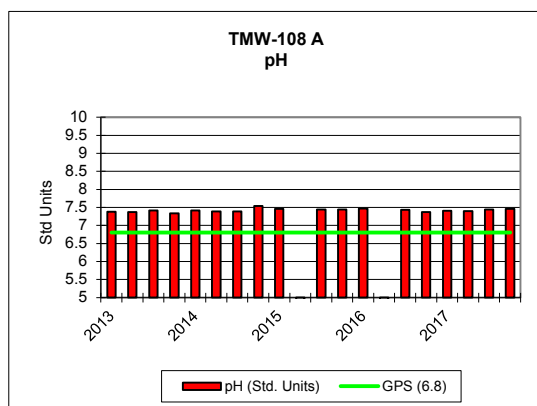
KENNECOTT URANIUM COMPANY																
TMW-107																
PARAMETER (unless noted)	(mg/L)	2013				2014				2015				2016		
		Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/22/2013	7/7/2013	10/14/2013	1/13/2014	4/7/2014	7/21/2014	10/29/2014	1/21/2015	4/28/2015	7/21/2015	12/16/2015	2/17/2016	4/12/2016
TDS A/C Balance (dec. %)			3.86	-1.22	2.18	-1.9	4.55	1.14	3.7	0.26	0.04	0.81	0.09	1.35	3.66	0.94
Alk-CaCO3			123	124	127	126	128	122	129	126	122	136	123	126	125	117
Aluminum (Al)	GPS (1.8)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)		0.001	<0.001	0.002	<0.001	0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)			<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)			150	152	155	154	156	149	157	153	149	166	149	154	153	143
Boron (B)			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)			181	153	301	190	115	139	240	183	124	104	217	171	127	115
Carbonate (CO3)			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)			15	15	31	20	12	14	24	21	12	9	25	19	14	
Chromium (Cr)	GPS (.05)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)			1020	988	1570	1140	839	886	1270	1110	829	713	1240		884	782
Cond-Field (umhos/cm)			1039	1093	1683	1228	930	1094	1605	1097	844	626	1432	1135	980	855
Copper (Cu)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)			0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)		2.2	2.2	4.6	2.2	1.7	2	3.7	3.3	2.1	5.1	10.2	5.2	2.5	6.3
Iron (Fe)	GPS (0.6)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
Lead (Pb210) (pCi/L)	GPS (8.9)		<1	<1	<1	<1	<1	<1	<1	<1	-0.1	-0.1	0.3	-0.1	<1	<1
Lead (Pb)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.3	-0.05
Magnesium (Mg)			15.1	12.7	26.4	15.7	9.7	11.8	20.3	16	10.7	9.1	18.5	15.5	11.6	10.3
Manganese (Mn)	GPS (0.2)		0.06	0.05	0.13	0.09	0.06	0.06	0.06	0.08	0.06	0.05	0.07	0.05	0.04	0.04
Mercury (Hg)			<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel (Ni)	GPS (.01)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)		7.75	7.72	7.67	7.67	7.76	7.79	7.7	7.8	7.87	7.8	7.66	7.69	7.94	7.88
pH (Field) (Std. Units)			7.61	7.6	7.7	7.7	8	8	7.5	7.58	7.74	7.77	7.48	7.48	7.61	7.59
Potassium (K)			3.7	3.3	4.2	3.6	2.9	3.3	4.2	3.7	3.2	3	3.5	3.5	2.8	2.9
Combined Ra226/228 (pCi/L)	GPS (5.8)		6.2	9	9.5	7.1	8.8	9.5	8.7	7.2	6.3	4.7	9.2	9.3	6	8.4
Radium 226 (pCi/L)			2.1	2.5	2.8	2.3	1.9	2.5	2.7	2.1	1.7	1.8	3	1.9	1.8	1.7
Radium 228 (pCi/L)			4.1	6.5	6.7	4.8	6.9	7	6	5.1	4.6	2.9	6.2	7.4	4.2	6.7
Selenium (Se)	GPS (.01)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)			14.7	12.6	9.5	13.1	11.9	14.1	13	13.2	12.8	12.9	13.3	13	12.1	12.9
Silver (Ag)			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)			45.6	42.3	55.4	43.5	36.9	43	49.7	46.2	41	40	49.4	44.6	38.9	41.3
TDS @ 180° C.	GPS (500)		757	720	1340	890	602	633	994	847	581	503	960	781	643	556
Sulfate (SO4)			411	381	743	487	293	326	553	456	294	236	550	407	329	271
Temperature (C)			11.3	8.8	11.8	9.1	8.9	10.5	13.5	9.9	8.7	9.1	9.8	8.9	8.5	9.2
Thallium (Tl)	GPS (7.0)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)			<0.2	<0.2	<0.2	<0.2	0.1	0.2	0.04	0.3	0.04	0.08	0.2	0.009	0.1	0.07
Uranium, natural (pCi/L)	GPS (36)		7.6	8.8	10.8	8.7	6.1	7	9.7	10.4	7.1	7.1	9.6	7.1	6.2	11.7
Vanadium (V205)			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)			<0.01	<0.01	0.14	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02

KENNECOTT URANIUM COMPANY							
TMW-107				2017			
PARAMETER (unless noted)	(mg/L) Groundwater Protection Standard (GPS) as of 5/26/05	7/31/2016	10/18/2016	2/27/2017	4/5/2017	7/18/2017	10/18/2017
TDS A/C Balance (dec. %)		0.28	0.35	1.83	2.02	1.82	2.54
Alk-CaCO3		139	120	123	125	116	127
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		170	146	150	152	142	155
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		228	183	134	117	176	144
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		29	22	14	12	23	15
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1330	1140	917	824	1170	948
Cond-Field (umhos/cm)		1621	1245	987	922	1457	1382
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	6	4.6	2.9	2	3.2	2.9
Iron (Fe)	GPS (0.6)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.8	0.9	0.7	0.4
Lead (Pb)		0.3	0.8	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		21.1	16.8	12	10.4	16.2	13
Manganese (Mn)	GPS (0.2)	0.03	0.03	0.03	0.04	0.03	0.03
Mercury (Hg)		<0.0002	<0.0002	<0.0003	<0.0004	<0.0005	<0.0006
Molybdenum (Mo)		<1	<1	<2	<3	<4	<5
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.54	7.75	7.82	7.89	7.69	7.85
pH (Field) (Std. Units)		6.89	7.77	7.78	8.05	7.38	7.55
Potassium (K)		3.9	3.8	3.3	3.2	3.6	3.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	9	7.3	5	5.1	5.9	4.6
Radium 226 (pCi/L)		2.7	2.6	1.6	1.2	2.2	2.1
Radium 228 (pCi/L)		6.3	4.7	3.4	3.9	3.7	2.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.1	13	13.4	13.2	13	13.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		49.5	46.5	42	43.3	45.2	44.3
TDS @ 180° C.	GPS (500)	1080	865	649	567	866	693
Sulfate (SO4)		562	466	306	297	465	325
Temperature (C)		13.3	10.6	8.5	8.5	9.8	9.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.08	0.006	0.2	0.03	0.07	0.01
Uranium, natural (pCi/L)	GPS (36)	17.2	8.2	6.7	7.5	8.4	6.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	0.08	0.01	<0.01	<0.01



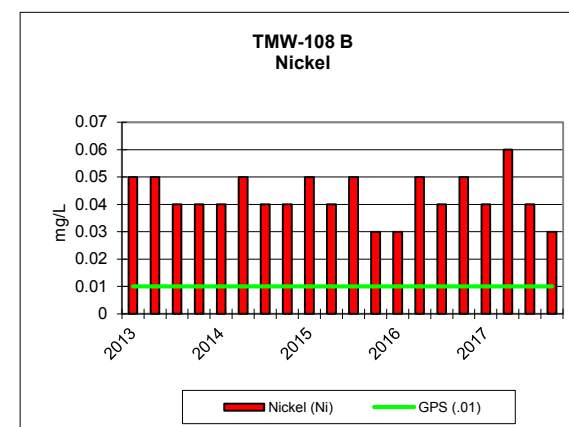
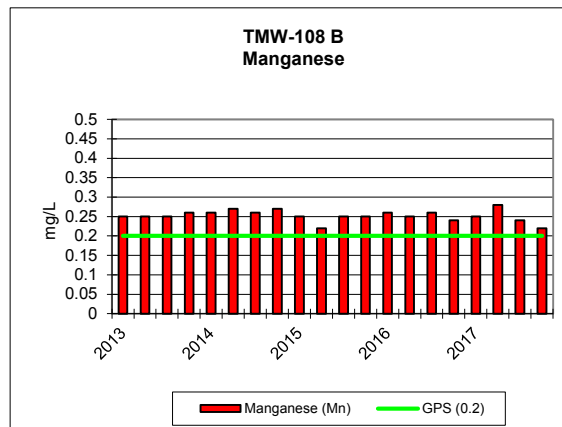
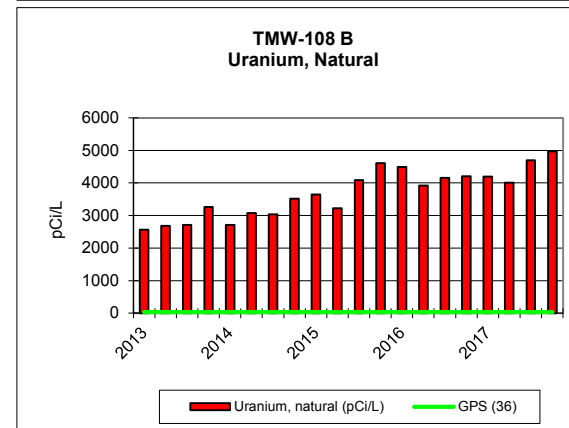
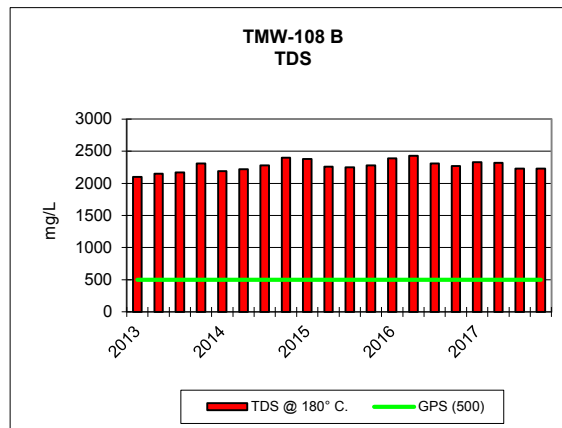
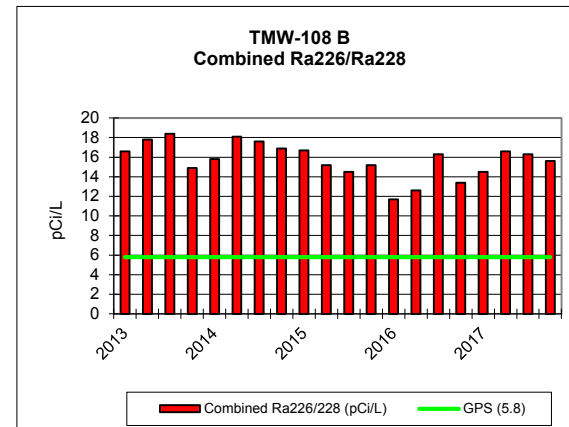
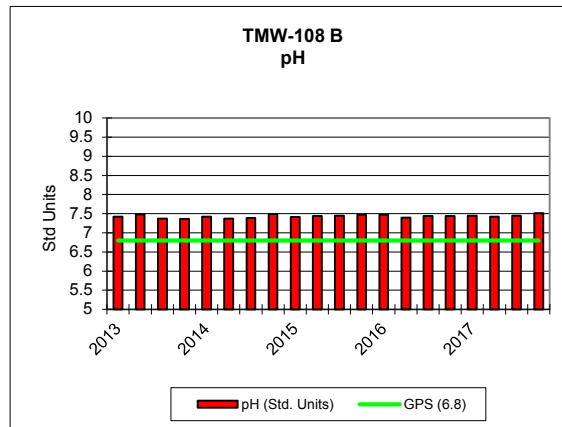
KENNECOTT URANIUM COMPANY															
TMW-108A (at 112' depth)		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/15/2013	7/7/2013	10/15/2013	1/14/2014	4/1/2014	7/8/2014	11/3/2014	1/20/2015	4/21/2015	7/20/2015	11/16/2015	1/12/2016	4/11/2016
TDS A/C Balance (dec. %)		0.933	0.905	0.853	-0.414	-1.38	3.09	1.53	0.59	1.02	1.37	1.88	2.18	4.35	
Alk-CaCO3		103	102	101	103	105	102	105	111	110	123	110	94	115	112
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.003	0.004	0.003	0.003	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.002
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		126	125	123	126	128	125	129	135	134	150	134	114	141	137
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		400	417	403	422	383	394	409	447	429	421	413	423	417	446
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		98	99	99	104	100	101	108	110	107	109	108	114	115	109
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.027	0.03	0.024	0.024	0.021	0.034	0.019	0.029	0.024	0.02	0.023	0.019	0.02	0.027
Cond (umhos/cm)		2390	2490	2410	2440	2410	2510	2500	2620	2510	2470	2500	2570	2560	2580
Cond-Field (umhos/cm)		2430	2600	2620	2740	2480	2700	2670	2720	2710	2400	2620	2730	2740	2620
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.3	3	3.7	3.3	2.9	3.3	4.1	3.8	18	37.3	22.2	11.8	36.7	23.9
Iron (Fe)	GPS (0.6)	0.32	0.57	0.31	0.39	0.42	0.37	0.42	0.28	0.43	0.32	0.42	0.3	0.33	0.56
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.4	0.8
Magnesium (Mg)		66.5	65.9	61.9	61.2	62.6	59.4	67	74.1	71.9	69.9	72.2	68.6	73.6	89.4
Manganese (Mn)	GPS (0.2)	0.25	0.26	0.25	0.25	0.25	0.29	0.25	0.26	0.24	0.23	0.25	0.24	0.25	0.24
Mercury (Hg)		<0.0002	<0.0002	0.0003	0.0002	0.0003	0.0003	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.05	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.05
Nitrogen, Nitrate+Nitrite as N		0.1	<0.1	<0.1	<0.1	0.2	0.1	0.2	0.2	0.3	0.3	<0.1	<0.1	0.1	0.3
pH (Std. Units)	GPS (6.8)	7.38	7.37	7.42	7.34	7.42	7.39	7.39	7.54	7.46		7.44	7.44	7.47	
pH (Field) (Std. Units)		7.47	7.5	7.5	7.4	7.6	7.5	6.5	7.27	7.54	7.29	7.1	7.52	7.38	7.14
Potassium (K)		6.7	7.3	6.3	6.6	6	6.3	6.5	6.9	6.7	6.6	7.5	6.4	6.2	8.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	16.6	18.3	16	14.6	16.3	18.3	16.9	14.9	18.7	17.1	16.6	16.5	14.3	18.7
Radium 226 (pCi/L)		3.3	3.3	3.9	2.6	3.8	3.3	3.2	2.7	3.5	4.6	3.4	2.7	3.4	5.2
Radium 228 (pCi/L)		13.3	15	12.1	12	12.5	15	13.7	12.2	15.2	12.5	13.2	13.8	10.9	13.5
Selenium (Se)	GPS (.01)	0.012	0.014	0.006	0.011	0.01	0.016	0.022	0.019	0.029	0.037	0.029	0.017	0.015	0.026
Silica (SiO2)		9.6	9.8	9.7	8.9	8.9	10.5	9.5	8.8	8.6	8.6	10.2	9.6	8.7	9.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		117	119	109	104	108	97.7	114	128	120	119	123	116	118	134
TDS @ 180° C.	GPS (500)	2090	2110	2140	2220	2180	2170	2230	2350	2320	2250	2190	2210	2330	2370
Sulfate (SO4)		1210	1260	1190	1250	1200	1240	1290	1360	1350	1230	1350	1360	1450	1380
Temperature (C)		10.7	10.3	10.9	9.5	11.7	9.5	11.4	9.9	9.2	9.4	9.7	8.8	8.5	10.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	0.2	0.04	0.05	0.09	0.2	0.009	0.2	0.1	0.06	0.07	0.02
Uranium, natural (pCi/L)	GPS (36)	2410	2480	2470	2870	2580	3020	2750	3200	3520	3030	3450	4260	4030	3570
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.02	0.02	0.02	0.02	0.04	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01

KENNECOTT URANIUM COMPANY							
TMW-108A (at 112' depth)				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/13/2016	10/11/2016	2/21/2017	4/17/2017	7/19/2017	10/23/2017
TDS A/C Balance (dec. %)		2.55	2.16	2.65	3.97	0.21	0.74
Alk-CaCO3		114	119	118	113	111	124
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.003	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		139	146	144	138	136	152
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		422	437	433	391	411	409
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		114	115	109	103	101	102
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.03	0.03	0.023	0.034	0.027	0.028
Cond (umhos/cm)		2380	2660	2700	2620	2540	2600
Cond-Field (umhos/cm)		3050	2920	2990	2940	2910	2940
Copper (Cu)		<0.01	<0.01	<0.01	0.09	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	<0.1	<0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	6.2	5.4	6.7	10.7	7.5	7
Iron (Fe)	GPS (0.6)	0.58	0.69	0.54	0.97	0.56	0.85
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.3	0.8	0.9	1.4
Lead (Pb)		0.62	0.7	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		68.7	76.8	76.1	68.9	69.9	73.7
Manganese (Mn)	GPS (0.2)	0.25	0.24	0.25	0.25	0.25	0.24
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.03	0.05	0.04	0.06	0.04	0.04
Nitrogen, Nitrate+Nitrite as N		0.2	<0.1	0.2	0.2	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.43	7.37	7.41	7.4	7.44	7.46
pH (Field) (Std. Units)		6.77	7.2	7.16	6.79	6.9	7.13
Potassium (K)		6.4	6.7	6.3	6.2	6.6	6.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	17.1	14.6	17.2	15.8	16	14.1
Radium 226 (pCi/L)		2.7	2.9	2.7	2.7	2.7	3
Radium 228 (pCi/L)		14.4	11.7	14.5	13.1	13.3	11.1
Selenium (Se)	GPS (.01)	0.021	0.029	0.016	0.016	0.013	0.016
Silica (SiO2)		9.9	9.3	8.9	10.1	9.3	9.9
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		115	124	121	112	114	116
TDS @ 180° C.	GPS (500)	2270	2270	2290	2260	2240	2220
Sulfate (SO4)		1350	1420	1420	1320	1260	1240
Temperature (C)		12.7	12.4	9.8	9.8	10	9.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.0002	0.05	0.1	0.06	0.04	0.03
Uranium, natural (pCi/L)	GPS (36)	3830	4450	4120	3660	4810	5060
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	0.02	0.01	0.3	0.04	0.02



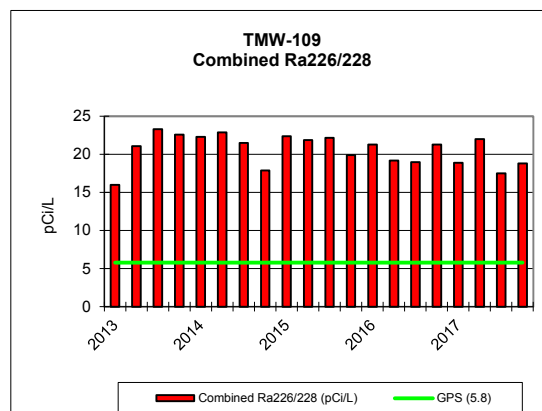
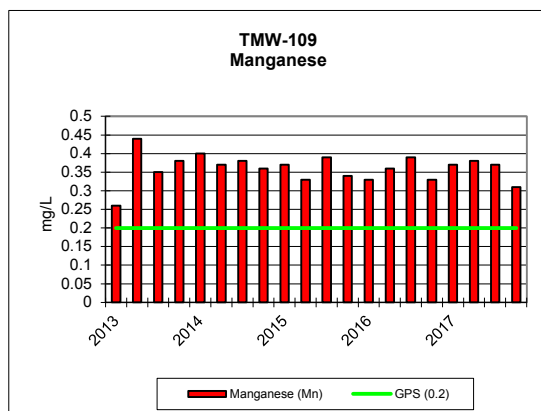
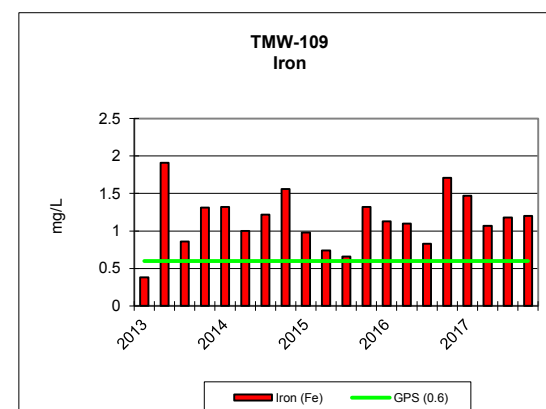
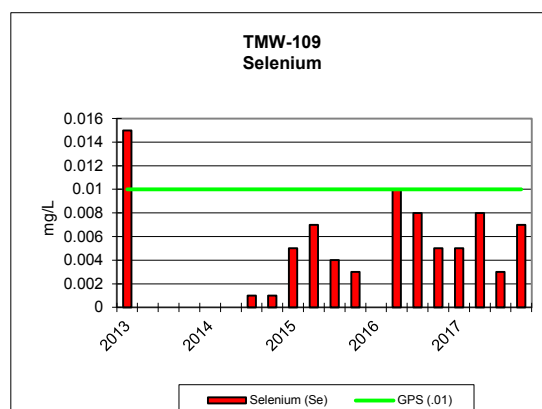
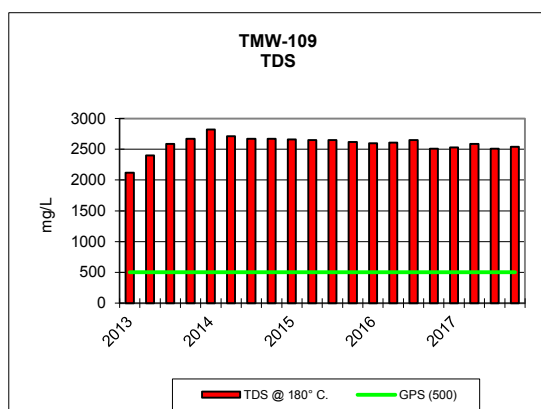
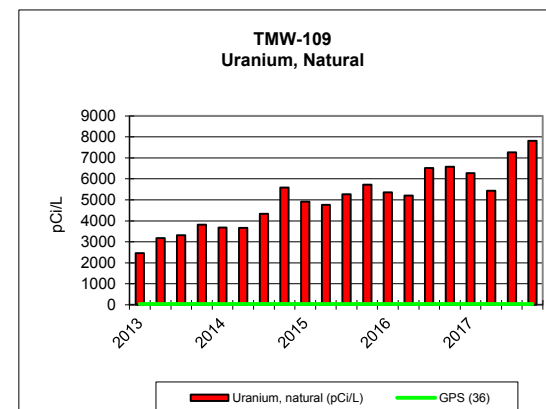
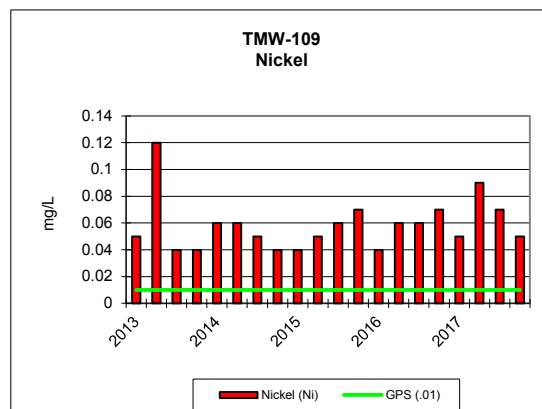
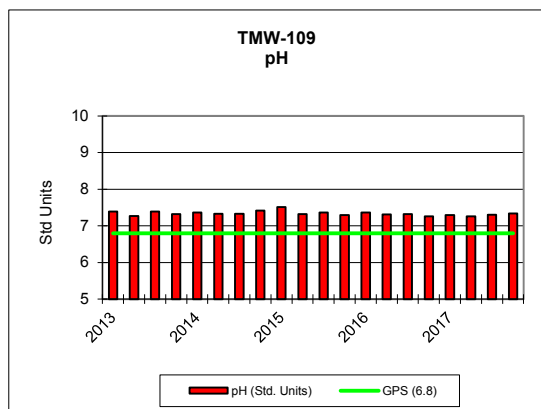
KENNECOTT URANIUM COMPANY																	
TMW-108B (at 143' depth)		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/15/2013	7/7/2013	10/15/2013	1/14/2014	4/1/2014	7/8/2014	11/3/2014	1/20/2015	4/21/2015	7/20/2015	11/16/2015	1/12/2016	4/11/2016	7/13/2016	10/11/2016
TDS A/C Balance (dec. %)		2.51	-2.1	0.546	-0.57	0.765	0.57	1.74	0.81	1.49	1.14	3.14	2.74	2.66		2.57	0.98
Alk-CaCO3		110	104	101	107	104	104	106	113	112	115	111	108	117	114	116	118
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.003	0.004	0.003	0.003	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		134	127	123	130	127	127	129	138	136	140	136	132	142	139	141	143
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		412	413	406	447	403	426	412	456	427	427	420	434	461	451	420	435
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		97	102	101	110	100	103	110	112	108	107	113	118	119	111	116	111
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.029	0.026	0.025	0.023	0.028	0.034	0.019	0.031	0.026	0.02	0.025	0.02	0.021	0.028	0.02	0.029
Cond (umhos/cm)		2410	2510	2450	2550	2420	2570	2550	2610	2540	2510	2560	2500	2600	2640	2420	2600
Cond-Field (umhos/cm)		2480	2540	2620	2820	2210	2800	2400	2730	2730	2360	2190	2790	2810	3020	3080	2850
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	<0.1	0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	4.3	2.8	3.3	3.2	3.4	3.5	4.1	3.6	13.9	29.8	16.9	20	40.4	27.9	10.7	8.2
Iron (Fe)	GPS (0.6)	0.36	0.27	0.25	0.32	0.4	0.57	0.34	0.24	0.43	0.32	0.34	0.27	0.36	0.52	0.81	0.48
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.09	1	2.1	0.7
Magnesium (Mg)		71.1	68	64.2	66.9	66.5	62.8	69.6	77.2	72.4	72.1	74.3	71.7	79.5	82.4	72.6	74.1
Manganese (Mn)	GPS (0.2)	0.25	0.25	0.25	0.26	0.26	0.27	0.26	0.27	0.25	0.22	0.25	0.25	0.26	0.25	0.26	0.24
Mercury (Hg)		<0.0002	<0.0002	0.0003	0.0002	0.0003	0.0003	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0003
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.05	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.04	0.05	0.03	0.03	0.05	0.04	0.05
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	0.2	0.1	0.3	0.2	0.4	0.4	0.2	<0.1	0.1	0.3	0.2	<0.1
pH (Std. Units)	GPS (6.8)	7.42	7.48	7.37	7.36	7.42	7.37	7.39	7.49	7.41	7.44	7.45	7.47	7.47	7.4	7.44	7.44
pH (Field) (Std. Units)		7.38	7.1	7.4	7.4	7.6	7.5	7.9	7.26	7.59	7.25	6.98	7.49	7.37	7.14	6.84	7.26
Potassium (K)		6.9	6.9	6.2	6.8	6.3	6.8	6.7	7.4	6.6	6.6	7.8	6.5	6.6	8.8	6.7	6.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	16.6	17.8	18.4	14.9	15.8	18.1	17.6	16.9	16.7	15.2	14.5	15.2	11.7	12.6	16.3	13.4
Radium 226 (pCi/L)		3	2.5	3.6	3.1	4.1	3.3	2.9	3.3	3.7	4.7	2.7	3.1	3.1	5.4	3.2	2.4
Radium 228 (pCi/L)		13.6	15.3	14.8	11.8	11.7	14.8	14.7	13.6	13	10.5	11.8	12.1	8.6	7.2	13.1	11
Selenium (Se)	GPS (.01)	0.012	0.012	0.007	0.009	0.011	0.02	0.024	0.027	0.03	0.044	0.032	0.014	0.015	0.026	0.031	0.025
Silica (SiO2)		9.3	9.3	9.5	8.7	8.8	10.2	9.2	8.5	8.1	8.5	9.3	9.5	8	9	9.8	9.4
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		117	119	111	111	112	103	117	130	118	120	125	119	125	139	120	120
TDS @ 180° C.	GPS (500)	2100	2150	2170	2310	2190	2220	2280	2400	2380	2260	2250	2280	2390	2430	2310	2270
Sulfate (SO4)		1210	1340	1220	1340	1210	1270	1320	1390	1360	1280	1410	1400	1510	1400	1370	1360
Temperature (C)		11.8	10.6	11.5	9.7	12.1	9.4	11.6	10.3	9	9.5	10.1	8.9	8.5	11.2	12.2	12.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.08	0.2	0.09	0.1	<0.2	<0.2	<0.2	<0.2	0.007	0.0004	0.06	0.05
Uranium, natural (pCi/L)	GPS (36)	2560	2680	2710	3260	2710	3080	3040	3520	3650	3220	4090	4610	4490	3920	4160	4210
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.01	0.02	0.02	0.03	0.03	0.05	0.03	0.02	0.02	0.01	0.02	0.01	<0.01	0.01	0.02	0.02

KENNECOTT URANIUM COMPANY					
TMW-108B (at 143' depth)		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/21/2017	4/17/2017	7/19/2017	10/23/2017
TDS A/C Balance (dec. %)		3.08	1.1	0.45	0.37
Alk-CaCO ₃		119	116	110	125
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		146	141	135	153
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		438	423	409	405
Carbonate (CO ₃)		<1	<1	<1	<1
Chloride (Cl)		110	105	101	101
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.025	0.036	0.025	0.023
Cond (umhos/cm)		2720	2660	2510	2580
Cond-Field (umhos/cm)		3000	2940	2910	2940
Copper (Cu)		<0.01	0.03	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	<0.1	<0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	7.8	10.8	6.4	6.5
Iron (Fe)	GPS (0.6)	0.44	0.8	0.71	0.65
Lead (Pb210) (pCi/L)	GPS (8.9)	0.8	0.4	1.3	2
Lead (Pb)		<1	<1	<1	<1
Magnesium (Mg)		77.8	78	68.7	72.4
Manganese (Mn)	GPS (0.2)	0.25	0.28	0.24	0.22
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.04	0.06	0.04	0.03
Nitrogen, Nitrate+Nitrite as N		1.9	0.2	0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.45	7.42	7.45	7.51
pH (Field) (Std. Units)		6.91	6.79	6.7	7.13
Potassium (K)		6.5	6.4	6.6	6
Combined Ra226/228 (pCi/L)	GPS (5.8)	14.5	16.6	16.3	15.6
Radium 226 (pCi/L)		2.8	2.9	2.9	3.6
Radium 228 (pCi/L)		11.7	13.7	13.4	12
Selenium (Se)	GPS (.01)	0.013	0.016	0.014	0.014
Silica (SiO ₂)		8.7	9.3	9.5	9.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		122	122	110	116
TDS @ 180° C.	GPS (500)	2330	2320	2230	2230
Sulfate (SO ₄)		1450	1370	1230	1240
Temperature (C)		9.2	9.8	10	9.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.09	0.2	0.09	-0.02
Uranium, natural (pCi/L)	GPS (36)	4200	4010	4700	4970
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	0.14	0.09	0.02



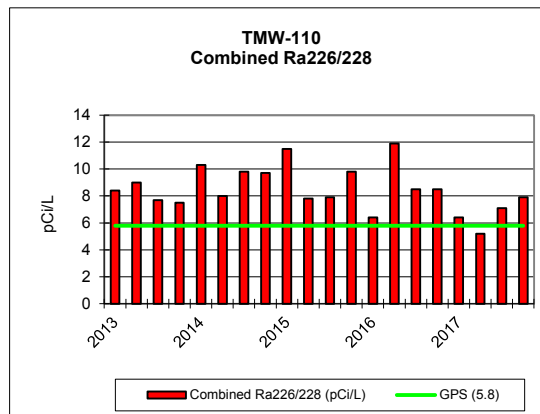
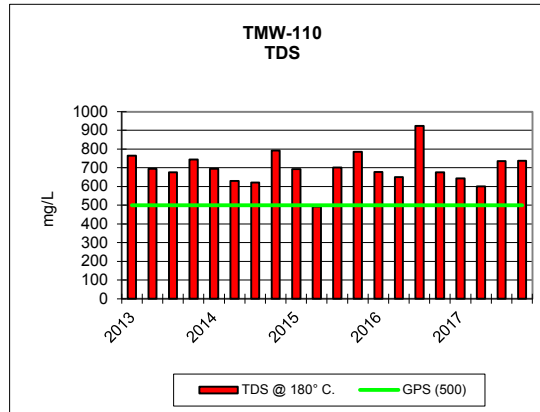
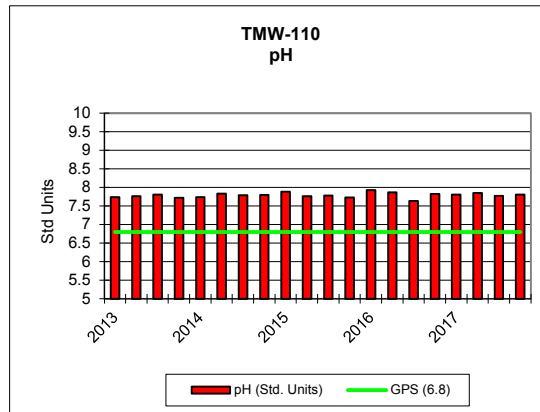
KENNECOTT URANIUM COMPANY															
TMW-109		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/22/2013	4/2/2013	7/7/2013	10/15/2013	1/13/2014	4/8/2014	7/8/2014	11/3/2014	1/21/2015	4/21/2015	7/21/2015	12/1/2015	1/12/2016	4/19/2016
TDS A/C Balance (dec. %)		2.44	-2.5	0.788	-0.83	1.54	3.02	0.9	2.03	1.08	1.35	2.78	2.5	5.04	0.25
Alk-CaCO3		104	109	116	104	106	108	114	124	119	119	136	123	122	113
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.002	0.003	0.005	0.007	0.006	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		127	133	142	127	129	131	139	151	145	145	165	150	149	138
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		409	457	494	513	534	522	502	512	503	505	496	490	484	480
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		95	87	100	113	108	117	113	115	110	107	110	132		113
Chromium (Cr)	GPS (.05)	VV	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.031	0.089	0.026	0.026	0.036	0.034	0.034	0.035	0.02	0.025	0.036	0.03	0.028	0.032
Cond (umhos/cm)		2380	2610	2730	2890	2840	2870	2880	2890	2790	2780	2890	2880	2800	2810
Cond-Field (umhos/cm)		2410	2840	3020	3190	3130	1631	2360	3010	2800	2950	2940	3050	2990	3210
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	<0.1
Gross Alpha (pCi/L)	GPS (15)	3.4	3.5	3.3	3.1	3.7	3.5	4.5	4.1	9.3	39.9	30.8	24.2	34.4	27.1
Iron (Fe)	GPS (0.6)	0.38	1.91	0.86	1.31	1.32	1	1.22	1.56	0.98	0.74	0.66	1.32	1.13	1.1
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	0.1	0.03	0.4	0.06	-0.08	0.2	-0.6	0.5	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.98
Magnesium (Mg)		67.6	64.4	69.6	70	77.5	74.1	75.5	78.4	77.3	77.5	75.6	85.3	81.3	90.7
Manganese (Mn)	GPS (0.2)	0.26	0.44	0.35	0.38	0.4	0.37	0.38	0.36	0.37	0.33	0.39	0.34	0.33	0.36
Mercury (Hg)		<0.0002	0.0002	0.0005	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.05	0.12	0.04	0.04	0.06	0.06	0.05	0.04	0.04	0.05	0.06	0.07	0.04	0.06
Nitrogen, Nitrate+Nitrite as N		0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.39	7.27	7.39	7.32	7.36	7.33	7.33	7.42	7.51	7.32	7.36	7.29	7.36	7.31
pH (Field) (Std. Units)		7.2	7.1	7.5	7.6	7.5	7.3	7.9	7.34	7.45	7.22	6.92	7.27	7.21	7.09
Potassium (K)		6.7	6.6	6.4	7.7	7.2	7	7.3	7.5	7.2	7.4	6.9	7.6	7.5	9.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	16	21.1	23.3	22.6	22.3	22.9	21.5	17.9	22.4	21.9	22.2	19.9	21.3	19.2
Radium 226 (pCi/L)		3.6	3.3	4.4	3.4	4.6	6.5	3.5	2.9	4.4	5.3	4.3	4.9	3.6	4.3
Radium 228 (pCi/L)		12.4	17.8	18.9	19.2	17.7	16.4	18	15	18	16.6	17.9	15	17.7	14.9
Selenium (Se)	GPS (.01)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.005	0.007	0.004	0.003	<0.001	0.01
Silica (SiO2)		9.2	10.5	6	7.9	8.8	9	9.3	8.8	9.4	10.3	10.2	8.8	8.2	10.2
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		118	115	122	124	136	127	133	139	134	136	137	142	137	144
TDS @ 180° C.	GPS (500)	2120	2400	2590	2670	2820	2710	2670	2670	2660	2650	2650	2620	2600	2610
Sulfate (SO4)		1200	1460	1450	1550	1570	1670	1560	1490	1580	1500	1600	1610	1680	1550
Temperature (C)		10.9	12.1	13	10.2	9.8	11.2	14.4	10.1	9.4	10.9	11	9.7	9.1	9.3
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	0.2	<0.2	0.2	0.09	0.2	0.07	0.1	0.04	0.3	0.07	0.006	0.09	0.02
Uranium, natural (pCi/L)	GPS (36)	2460	3180	3320	3820	3680	3670	4340	5590	4920	4760	5260	5720	5360	5210
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.02	0.1	0.04	0.04	0.05	0.04	0.04	0.02	0.03	0.02	0.02	0.03	0.03	0.02

KENNECOTT URANIUM COMPANY							
TMW-109				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/13/2016	10/19/2016	2/21/2017	4/17/2017	7/19/2017	10/23/2017
TDS A/C Balance (dec. %)		3.59	0.43	0.71	4.22	0.84	2.7
Alk-CaCO3		130	127	129	123	125	143
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.003	<0.001	0.001	<0.001	0.002	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		158	155	157	150	153	174
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		489	469	492	449	463	453
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		118	113	118	108	110	102
Chromium (Cr)	GPS (.05)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.05	0.042	0.036	0.053	0.046	0.036
Cond (umhos/cm)		2700	2880	2910	2930	2800	2870
Cond-Field (umhos/cm)		3500	3100	3160	3110	3050	3160
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	9.2	17.8	9.5	12.7	12.6	8.1
Iron (Fe)	GPS (0.6)	0.83	1.71	1.47	1.07	1.18	1.2
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.07	0.7	0.7	1
Lead (Pb)		0.7	0.1	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		81.6	84.7	90.1	79.2	83.4	86.4
Manganese (Mn)	GPS (0.2)	0.39	0.33	0.37	0.38	0.37	0.31
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	0.06	0.07	0.05	0.09	0.07	0.05
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.32	7.26	7.29	7.26	7.3	7.34
pH (Field) (Std. Units)		6.74	7.05	6.88	6.72	6.02	6.62
Potassium (K)		7.2	7.5	7.5	6.9	7.6	7.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	19	21.3	18.9	22	17.5	18.8
Radium 226 (pCi/L)		3.3	3.5	2.9	2.9	3.5	3.5
Radium 228 (pCi/L)		15.7	17.8	16	19.1	14	15.3
Selenium (Se)	GPS (.01)	0.008	0.005	0.005	0.008	0.003	0.007
Silica (SiO2)		9.5	8.9	10.1	10.2	9.4	8.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		134	135	140	126	131	131
TDS @ 180° C.	GPS (500)	2650	2510	2530	2590	2510	2540
Sulfate (SO4)		1630	1490	1580	1540	1430	1340
Temperature (C)		11.2	10.8	9.3	9.6	12.5	11.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.1	0.01	0.1	0.09	0.07	0.1
Uranium, natural (pCi/L)	GPS (36)	6510	6570	6280	5430	7260	7810
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		0.04	0.08	0.02	0.04	0.03	0.03



KENNECOTT URANIUM COMPANY															
TMW-110		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/15/2013	7/7/2013	10/14/2013	1/13/2014	4/7/2014	7/15/2014	10/29/2014	1/21/2015	4/28/2015	7/21/2015	12/6/2015	2/17/2016	4/12/2016
TDS A/C Balance (dec. %)		3.3	-3.81	1.71	0.158	0.825	1.66	0.93	0.17	1.23	3.49	0.87	2.38	3.21	0
Alk-CaCO3		124	136	123	124	125	125	124	125	125	124	124	128	127	121
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.002	0.002	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		152	166	150	151	152	152	151	153	152	152	151	156	155	148
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		181	141	145	163	148	141	148	176	148	127	148	168	133	135
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		14	12	11	13	12	11	12	15	12	10	13	15	13	12
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1030	978	919	985	927	885	921	1060	940	815	960	1040	921	892
Cond-Field (umhos/cm)		1058	1049	998	1092	976	790	1041	1101					1050	894
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	ND	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.2	2.4	2.5	2.7	2.4	3	3.7	3.9	3.8	6.5	7.6	5.5	3.4	8.9
Iron (Fe)	GPS (0.6)	<0.05	0.09	0.1	0.12	0.06	<0.05	<0.05	0.17	0.11	0.1	0.1	0.1	0.08	0.11
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.02	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-0.3	-0.4
Magnesium (Mg)		14.1	11	11	12.3	11.3	10.4	11.8	13.9	11.4	9.5	11.5	13.7	10.7	10.6
Manganese (Mn)	GPS (0.2)	0.09	0.08	0.08	0.09	0.08	0.07	0.07	0.09	0.07	0.07	0.07	0.08	0.06	0.06
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.74	7.76	7.81	7.72	7.74	7.83	7.79	7.8	7.88	7.76	7.78	7.73	7.93	7.87
pH (Field) (Std. Units)		7.62	7.8	7.9	7.7	9.3	8	8	7.76					7.65	7.63
Potassium (K)		3.8	3.6	3.8	3.7	3.4	3.4	3.5	3.7	3.5	3.5	3.2	3.8	3	3.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.4	9	7.7	7.5	10.3	8	9.8	9.7	11.5	7.8	7.9	9.8	6.4	11.9
Radium 226 (pCi/L)		3.2	2.2	3.1	2.5	2.6	2.9	2.5	2.7	2.6	2.3	2.7	2.9	3.1	2.7
Radium 228 (pCi/L)		5.2	6.8	4.6	5	7.7	5.1	7.3	7	8.9	5.5	5.2	6.9	3.3	9.2
Selenium (Se)	GPS (.01)	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		16.6	14.4	14.3	14.2	14.6	15.8	15.4	14.1	14.1	14.7	14	13.9	13.2	14.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		48.6	45.8	46.6	43.6	44.8	42.8	45.5	46.5	44.7	44.2	46.2	45.1	41.3	46
TDS @ 180° C.	GPS (500)	764	694	676	744	694	629	621	792	693	492	701	785	678	651
Sulfate (SO4)		420	371	344	397	352	322	357	440	348	274	373	440	342	332
Temperature (C)		11.6	10.1	11.6	9	8	10.6	10.5	9.8					8.6	9.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.2	0.2	<0.2	<0.2	0.2	<0.2	0.06	0.06
Uranium, natural (pCi/L)	GPS (36)	4.7	4.4	4.4	4.2	3.5	3.6	5.1	5.2	3.9	3.3	4.5	4.7	3.2	4.6
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-110				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/31/2016	10/18/2016	2/27/2017	4/5/2017	7/18/2017	10/18/2017
TDS A/C Balance (dec. %)		0.21	1.14	0.7	0.43	2.58	1.59
Alk-CaCO3		125	124	125	127	115	125
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		152	151	152	154	141	152
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		191	147	130	129	146	141
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		16	12	12	13	14	13
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1170	931	917	868	990	988
Cond-Field (umhos/cm)		1450	1026	993	933	1220	1205
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		ND	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.4	4.3	3.2	2.9	3.1	3.1
Iron (Fe)	GPS (0.6)	0.11	0.13	0.06	<0.05	0.08	0.07
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.5	0.6	1.9	1.2
Lead (Pb)		0.3	0.8	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		15.8	12.2	10.2	10.1	12.1	11.5
Manganese (Mn)	GPS (0.2)	0.08	0.06	0.06	0.07	0.08	0.07
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.63	7.82	7.81	7.85	7.77	7.81
pH (Field) (Std. Units)		6.98	7.79	8.03	8.22	7.81	7.62
Potassium (K)		3.6	3.4	3.3	3.4	3.4	3.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	8.5	8.5	6.4	5.2	7.1	7.9
Radium 226 (pCi/L)		2.8	2.1	2.3	2	3.6	3.7
Radium 228 (pCi/L)		5.7	6.4	4.1	3.2	3.5	4.2
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		13.6	13.5	14.6	15.3	14	14.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		46.4	43	44.4	48.5	43	39.8
TDS @ 180° C.	GPS (500)	924	675	644	600	736	737
Sulfate (SO4)		478	349	307	320	388	347
Temperature (C)		11.5	10	8.3	8.5	9.2	9.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.03	0.03	0.1	-0.006	0.06	0.04
Uranium, natural (pCi/L)	GPS (36)	5.4	5.2	3.4	1.8	4.1	4.4
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.13	0.01	<0.01	<0.01	0.02

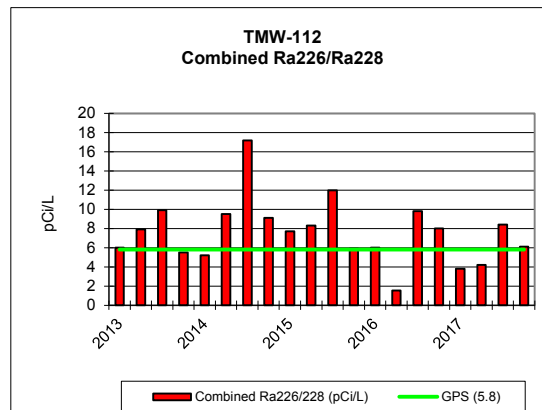
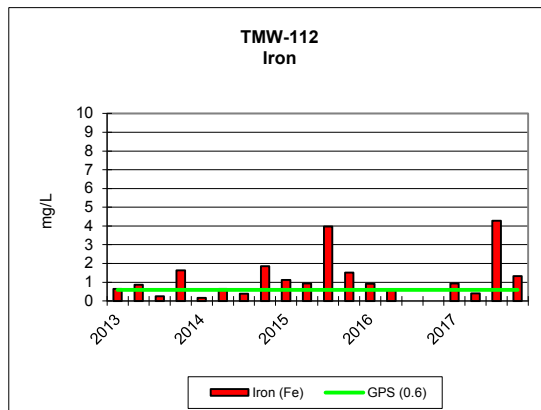
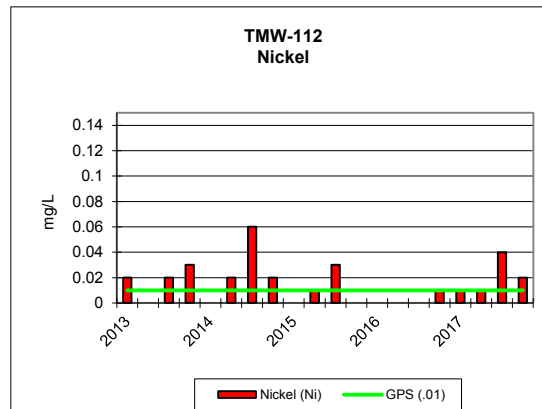
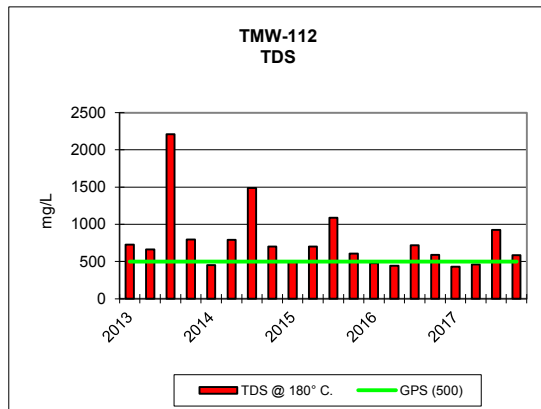
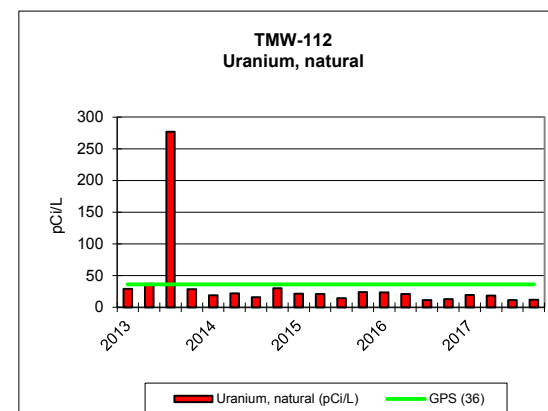
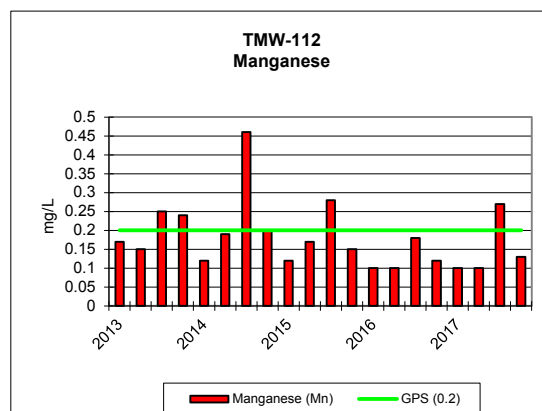
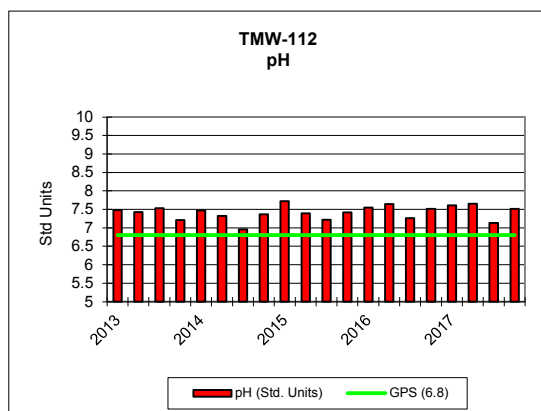


KENNECOTT URANIUM COMPANY															
TMW-111		2013				2014				2015				2016	
PARAMETER unless noted	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05)	1/28/2013	4/1/2013	7/7/2013	10/15/2013	1/27/2014	4/8/2014	8/4/2014	11/19/2014	2/3/2015	6/3/2015	8/12/2015	12/6/2015	2/15/2016	6/27/2016
TDS A/C Balance (dec. %)		0.745	-2.82	0.0866	-4.27	0.77	2.28	1.72	1.18	0.33	2.76	0.7	4.87	3.99	4.92
Alk-CaCO3		92	93	100	89	88	93	103	90	87	109	96	107	91	98
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.002
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		112	113	122	109	105	114	126	110	106	133	117	131	111	120
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		32.4	29.9	62.2	23.5	18.6	43	56	22.1	18.5	47.8	48.6	27.2	18.3	36.2
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		3	3	5	2	2	4	4	2	2	4	4	3	2	3
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		341	351	514	295	270	434	490	287	273	456	446	305	270	407
Cond-Field (umhos/cm)		358	429	594	335	317	569	565	364	321	411	460	323	279	476
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	0.7	0.2	1.1	0.3	0.7	0.5	0.6	1.6	1	2.3	4	2	0.3	0.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	-0.6	0.7	-0.6	-0.08	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	-1
Magnesium (Mg)		3.1	2.8	5.8	2.1	1.5	3.8	5.1	2	1.6	4.3	4.7	2.6	1.7	4.8
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.13	8.15	8.04	8.07	8.16	8.18	8.06	8.22	8.18	7.95	8.06	8.16	8.29	8.09
pH (Field) (Std. Units)		7.8	5.8	8	8.2	8.1	8.5	7.8	8.2	8.32	8.28	8.06	8.21	8.35	8.13
Potassium (K)		1.4	1.3	2	1.3	1.2	1.6	1.8	1.2	1.2	1.7	1.9	1.5	1.3	1.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.98	1.92	2.93	1.31	0.9	1.53	2.48	1.13	2.46	1.29	3.06	1.33	1.37	2.57
Radium 226 (pCi/L)		0.78	0.42	0.83	0.31	0.1	0.93	0.78	0.33	0.26	0.39	0.76	0.53	0.27	0.67
Radium 228 (pCi/L)		3.2	1.5	2.1	1	0.8	0.6	1.7	0.8	2.2	0.9	2.3	0.8	1.1	1.9
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.3	11	11.1	10.8	10.7	11.8	10.9	10.8	10.4	10.8	10.7	11.1	9.3	9.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		38.1	37.8	40.6	32.6	39.9	40.8	38.9	36.4	38.9	40.5	42.2	35.8	35.9	35.2
TDS @ 180° C.	GPS (500)	219	211	342	185	166	261	324	196	167	291	281	188	159	260
Sulfate (SO4)		76	79	156	56	45	119	141	51	46	120	117	61	47	101
Temperature (C)		11.5	10.6	13	9.2	8.6	10.5	11.4	9.4	8.6	9.4	10.1	8.6	8.8	9.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	0.08	0.3	0.06	<0.2	0.05	0.2	0.3	0.02	0.07	0.01
Uranium, natural (pCi/L)	GPS (36)	3.3	3.3	4.5	3.9	2.5	3.9	5.6	3.7	2.8	4.5	3.8	3	2.8	7.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-111							
PARAMETER (unless noted)	(mg/L Groundwater Protection Standard (GPS) as of 5/26/05)	2017					
		8/1/2016	11/7/2016	2/22/2017	6/12/2017	8/1/2017	11/7/2017
TDS A/C Balance (dec. %)		0.52	1.62	1.13	2.59	2.6	0.83
Alk-CaCO3		100	100	86	93	92	96
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.001	0.001	0.001	0.002	0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		122	123	105	114	110	114
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		51.5	37.2	19.1	35	38.6	30.9
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		5	3	3	3	3	3
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		466	380	274	385	388	444
Cond-Field (umhos/cm)		611	419	305	450	581	8.11
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	2.1	2.4	0.7	0.6	0.7	0.5
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.9	0.4	-0.3	0.8
Lead (Pb)		0.3	0.7	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		4.8	3.4	1.8	3.2	3.5	2.8
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.01	8.17	8.35	8.13	8.09	8.11
pH (Field) (Std. Units)		7.43	8.49	8.92	9.63	9.28	8.11
Potassium (K)		1.8	1.6	1.3	1.4	1.6	1.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.66	2.44	0.97	1.6	1.5	0
Radium 226 (pCi/L)		0.86	0.64	0.27	0.5	0.6	0.4
Radium 228 (pCi/L)		1.8	1.8	0.7	1.1	0.9	-0.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		10.9	10.5	11.3	10.9	11.2	10.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		40.8	38.8	39.8	37.8	39.7	38.9
TDS @ 180° C.	GPS (500)	311	249	164	243	268	214
Sulfate (SO4)		130	91	47	93	88	75
Temperature (C)		13.7	11	9	9.9	10.9	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.07	0.2	0.3	0.05	0.01	0.03
Uranium, natural (pCi/L)	GPS (36)	4.2	3.5	11.4	4	3.8	3.2
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.02

KENNECOTT URANIUM COMPANY																
TMW-112		2013				2014				2015					2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/22/2013	4/1/2013	7/7/2013	10/15/2013	1/27/2014	4/8/2014	8/4/2014	11/4/2014	1/21/2015	5/4/2015	7/22/2015	12/6/2015	2/29/2016	4/13/2016	
TDS A/C Balance (dec. %)		-2.33	-2	1.76	-1.86	1.43	0.86	0.43	0.95	0.52	2.3	2.55	0.48	0.28	3.86	
Alk-CaCO3		91	93	137	91	94	89	72	94	95	91	86	96	91	91	
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bicarbonate (HCO3)		112	114	168	111	115	108	88	114	115	111	105	117	112	112	
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Calcium (Ca)		135	131	454	157	88.8	164	310	141	95.7	137	217	121	93.4	89.2	
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloride (Cl)		13	12	40	11	7	11	21	10	7	10	15	10	7	6	
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cobalt (Co)		0.012	0.011	0.003	0.027	0.008	0.015	0.055	0.028	0.01	0.011	0.033	0.014	0.009	0.007	
Cond (umhos/cm)		964	913	2370	1030	652	1040	1730	962	709	947	1360	837	688	630	
Cond-Field (umhos/cm)		1013	1048	1894	1132	701	1109	708	1022	725	959	1376	912	771	721	
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Fluoride (F)		0.2	0.2	ND	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Gross Alpha (pCi/L)	GPS (15)	1.6	3.4	2.8	1.4	1.9	2.7	4.3	1.7	3.3	6.7	21.7	3.6	2.2	8.6	
Iron (Fe)	GPS (0.6)	0.64	0.86	0.25	1.63	0.17	0.65	0.38	1.85	1.13	0.93	3.97	1.52	0.91	0.59	
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	0	0.05	0.3	0.1	ND	ND	
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.3	
Magnesium (Mg)		15.2	14.1	46.2	17.9	10	18.3	36.9	16.7	10.9	13.9	24.3	14.5	10.9	10	
Manganese (Mn)	GPS (0.2)	0.17	0.15	0.25	0.24	0.12	0.19	0.46	0.2	0.12	0.17	0.28	0.15	0.1	0.1	
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nickel (Ni)	GPS (.01)	0.02	<0.01	0.02	0.03	<0.01	0.02	0.06	0.02	<0.01	0.01	0.03	<0.01	<0.01	<0.01	
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
pH (Std. Units)	GPS (6.8)	7.48	7.43	7.53	7.21	7.47	7.32	6.96	7.37	7.72	7.39	7.22	7.42	7.55	7.64	
pH (Field) (Std. Units)		7.36	6.9	6.9	7.5	7.5	7.2	6.8	7.35	7.76	7.45	6.81	7.42	7.5	7.47	
Potassium (K)		3.5	2.9	6.5	3.5	2.6	3.6	5.2	3.2	2.8	3	4.4	3.2	3.7	2.6	
Combined Ra226/228 (pCi/L)	GPS (5.8)	6	7.9	9.9	5.5	5.2	9.5	17.2	9.1	7.7	8.3	12	5.9	6	1.55	
Radium 226 (pCi/L)		1.7	1.9	1.8	1.6	1.1	2.8	3.9	2.3	1.5	1.8	3.2	1.3	1.4	0.45	
Radium 228 (pCi/L)		4.3	6	8.1	3.9	4.1	6.7	13.3	6.8	6.2	6.5	8.8	4.6	4.6	1.1	
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Silica (SiO2)		12.5	10.6	11.7	11.3	10.8	9.8	12.9	11	10.9	11.4	12.5	11.6	11.1	11.7	
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sodium (Na)		40.8	40.7	110	42.2	39.4	47.7	65.3	43.4	39	40.1	49.6	42	37.9	40.4	
TDS @ 180° C.	GPS (500)	727	663	2210	794	450	790	1490	702	496	701	1090	608	479	443	
Sulfate (SO4)		390	371	1270	457	228	459	944	386	253	391	661	336	255	219	
Temperature (C)		10.1	9.6	11.7	9	8.2	9.2	11.9	9.1	9	9.9	10.6	8.2	8.3	9.1	
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.009	0.2	0.06	0.06	0.06	0.03	
Uranium, natural (pCi/L)	GPS (36)	29.2	37.2	277	28.9	19.3	21.9	16.1	30.1	21.4	21.1	14.7	24.1	23.7	20.9	
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Zinc (ZN)		<0.01	0.01	<0.01	0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	

KENNECOTT URANIUM COMPANY							
TMW-112				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/31/2016	10/13/2016	2/22/2017	4/10/2017	7/12/2017	10/17/2017
TDS A/C Balance (dec. %)		1.26	1.74	0.07	-0.53	1.53	0.5
Alk-CaCO3		87	89	92	91	78	87
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		106	109	112	111	95	106
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		143	114	86.6	92.3	183	115
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		11	10	6	8	13	10
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.012	0.012	0.009	0.007	0.036	0.014
Cond (umhos/cm)		956	820	635	687	1230	830
Cond-Field (umhos/cm)		1143	898	739	802	1428	1809
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.2		0.2	0.2	0.2	0.2
Gross Alpha (pCi/L)	GPS (15)	3.7	2.2	1.5	1.9	4.5	2.4
Iron (Fe)	GPS (0.6)	ND	ND	0.94	0.4	4.28	1.32
Lead (Pb210) (pCi/L)	GPS (8.9)	ND	ND	0.7	1	1.5	0.1
Lead (Pb)		0.8	0.5	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		16	12.2	9.4	9.6	21.6	12.1
Manganese (Mn)	GPS (0.2)	0.18	0.12	0.1	0.1	0.27	0.13
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	0.01	0.01	0.01	0.04	0.02
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.26	7.51	7.61	7.65	7.13	7.51
pH (Field) (Std. Units)		6.68	7.41	7.52	6.91	6.73	6.92
Potassium (K)		3.1	2.8	2.5	2.7	3.8	2.9
Combined Ra226/228 (pCi/L)	GPS (5.8)	9.8	8	3.82	4.2	8.4	6.1
Radium 226 (pCi/L)		2.3	1.5	0.92	1.4	2.3	2.6
Radium 228 (pCi/L)		7.5	6.5	2.9	2.8	6.1	3.5
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.7	11.2	11.6	11.4	12.8	11.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		43	40.8	35.2	39.1	49.3	39.7
TDS @ 180° C.	GPS (500)	720	589	432	462	925	586
Sulfate (SO4)		389	325	224	250	520	308
Temperature (C)		13.8	10.1	8.3	8.8	10.3	9.1
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.07	-0.009	0.2	0.003	0.1	-0.01
Uranium, natural (pCi/L)	GPS (36)	11.6	13.1	19.5	18.6	11.3	12
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.03	0.02	<0.01



KENNECOTT URANIUM COMPANY															
TMW-113		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/28/2013	4/1/2013	7/7/2013	10/15/2013	2/3/2014	4/8/2014	8/4/2014	11/4/2014	1/21/2015	5/4/2015	7/22/2015	12/6/2015	2/29/2016	4/13/2016
TDS A/C Balance (dec. %)		1.76	-0.654	1.7	1.42	4.85	0.61	0.17	0.16	1.09	4.5	0.81	2.24	4.72	2.99
Alk-CaCO3		128	142	68	121	109	118	132	119	108	115	123	114	105	105
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.003	0.002	0.004	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.002	0.002	0.002
Barium (Ba)		<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		156	174	83	148	134	144	161	146	132	140	150	139	128	128
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		384	381	320	321	175	278	430	288	193	254	330	219	205	181
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		34	37	22	28	19	25	38	27	19	24	29	22	16	15
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		0.001	0.002	0.062	0.002	<0.001	<0.001	0.001	0.002	<0.001	0.001	0.002	0.001	<0.001	<0.001
Cond (umhos/cm)		2000	2080	1830	1720	1210	1600	2240	1680	1200	1510	1790	1370	1150	1080
Cond-Field (umhos/cm)		2160	2340	2580	1858	1288	1520	1792	1715	1231	1560	1919	1382	1230	1218
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	ND	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.5	5.2	3.5	1.5	1.9	2.3	3.4	2.5	3	9.4	17.7	3.2	0.9	10.6
Iron (Fe)	GPS (0.6)	<0.05	0.26	5.86	0.19	<0.05	0.09	0.17	0.35	0.18	0.2	0.38	0.17	0.12	0.11
Lead (Pb210) (pCi/L)	GPS (8.9)	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.4	0.02
Magnesium (Mg)		37.8	35.2	39.2	29.1	15.5	26.3	41.8	28.1	16.9	22.8	31.3	21.5	18.6	16.4
Manganese (Mn)	GPS (0.2)	0.21	0.19	0.47	0.17	0.08	0.14	0.24	0.16	0.1	0.14	0.19	0.13	0.08	0.08
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.52	7.54	6.88	7.53	7.63	7.62	7.48	7.67	7.85	7.53	7.56	7.62	7.72	7.75
pH (Field) (Std. Units)		7.39	7.5	7.5	7.6	7.7	7.5	7.5	7.31	7.97	7.58	7.11	7.56	7.66	7.58
Potassium (K)		5.1	4.7	5.6	5.1	3.3	4.6	5.6	4.9	3.8	4.3	5.1	4.1	4.6	3.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	16.2	16.1	17.7	12	8.9	11.1	12.8	11.3	9.6	12.3	10.2	8.7	5.2	1.69
Radium 226 (pCi/L)		3.1	2.3	4.8	2.1	1.7	3.1	2.8	3	1.7	2.4	2.3	1.7	1.3	0.29
Radium 228 (pCi/L)		13.1	13.8	12.9	9.9	7.2	8	10	8.3	7.9	9.9	7.9	7	3.9	1.4
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		12.9	11.6	13.4	12.1	10.6	10.3	11.6	11.9	11.9	11.9	12.2	12.2	11.1	12.8
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		90.2	85.3	72.4	74.3	49.5	73.6	96.9	75.7	57	67.6	77.3	64	55	59.8
TDS @ 180° C.	GPS (500)	1780	1830	1620	1460	905	1330	2000	1380	936	1230	1580	1080	890	846
Sulfate (SO4)		1050	1070	949	862	516	794	1220	811	537	782	941	645	501	469
Temperature (C)		9.8	9.5	11.6	9	8.4	9	11.5	9.2	8.2	9.3	9.1	7.9	7.8	8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.02	0.1
Uranium, natural (pCi/L)	GPS (36)	182	228	20.1	137	65.7	128	207	108	67.8	105	140	82.2	59.3	64.8
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	0.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-113				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/31/2016	10/13/2016	2/22/2017	4/10/2017	7/12/2017	10/17/2017
TDS A/C Balance (dec. %)		1.55	1.04	1.5	3.42	3.22	4.4
Alk-CaCO3		119	118	109	116	123	123
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.003	<0.001	0.002	0.002	0.003	0.003
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		145	145	133	142	150	150
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		270	285	204	223	346	309
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		25	26	19	21	29	25
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	0.002	0.001	<0.001	0.002	0.002
Cond (umhos/cm)		1660	1690	1300	1440	2040	1750
Cond-Field (umhos/cm)		1930	1827	1160	1815	2630	2590
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.8	4.1	3.6	3	4.6	2.7
Iron (Fe)	GPS (0.6)	<0.05	0.32	0.21	0.17	0.37	0.39
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.5	0.4	1.2	0.6
Lead (Pb)		-0.03	0.6	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		27	28.3	19	20.7	35.5	30.3
Manganese (Mn)	GPS (0.2)	0.16	0.17	0.12	0.12	0.23	0.19
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.54	7.64	7.68	7.65	7.54	7.63
pH (Field) (Std. Units)		6.99	7.56	7.75	6.96	6.93	7.35
Potassium (K)		4.1	4.6	3.8	4	5	4.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	9.1	11.4	8.2	8.2	11.8	14.9
Radium 226 (pCi/L)		2.1	1.9	1.8	2.3	2.6	2.8
Radium 228 (pCi/L)		7	9.5	6.4	5.9	9.2	12.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		11.3	12.1	12.3	11.7	12.7	12.5
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		69.7	75.1	58.3	63.4	86.5	79.2
TDS @ 180° C.	GPS (500)	1390	1400	976	1090	1630	1460
Sulfate (SO4)		785	827	581	665	926	792
Temperature (C)		12.8	10.4	8	8.2	9.4	8.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.02	0.04	0.3	0.1	0.04	0.03
Uranium, natural (pCi/L)	GPS (36)	107	114	76.4	107	156	130
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	0.08	0.01	<0.01

KENNECOTT URANIUM COMPANY																	
TMW-115		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/28/2013	4/1/2013	7/7/2013	10/15/2013	2/3/2014	4/7/2014	8/4/2014	11/3/2014	1/21/2015	5/4/2015	7/22/2015	12/6/2015	2/29/2016	4/19/2016	8/1/2016	10/13/2016
TDS A/C Balance (dec. %)		2.8	-2.37	0.601	0.881	3.3	0.08	0.99	0.86	0.52	3.38	0.21	1.26	0.66	3.23	0.48	1.04
Alk-CaCO3		127	128	128	132	123	121	130	132	124	117	129	134	124	119	132	136
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		155	156	157	161	150	147	159	161	151	142	158	163	152	145	161	166
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		206	167	241	218	170	235	255	221	188	234	254	217	193	189	244	239
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		15	15	18	17	16	18	19	19	17	18	20	20	18	18	21	20
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1170	1080	1410	1240	1120	1340	1430	1310	1160	1360	1460	1310	1170	1220	1450	1440
Cond-Field (umhos/cm)		1233	1258	1504	1356	1223	1140	1642	1334	1204	1322	1541	1408	1331	1365	913	1550
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.2	0.1	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.1	<0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.9	2.3	1.9	1.6	1.6	1.9	1.8	2.1	3.3	8.8	18.6	5	4.7	11.6	3.6	3.5
Iron (Fe)	GPS (0.6)	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.14	0.18	0.13	0.13	0.14	0.12	0.17
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.8	0.98	0.6	0.6
Magnesium (Mg)		17.7	13.7	20	16.5	14	18.1	21	18.3	15.6	17.3	20.1	18.6	16.1	15.5	20.5	20.5
Manganese (Mn)	GPS (0.2)	0.11	0.08	0.12	0.11	0.09	0.12	0.15	0.13	0.11	0.13	0.14	0.13	0.1	0.1	0.14	0.15
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.72	7.74	7.7	7.67	7.67	7.78	7.7	7.77	7.87	7.6	7.7	7.69	7.75	7.7	7.67	7.77
pH (Field) (Std. Units)		7.64	7.8	7.9	7.8	7.7	7.9	7.9	7.56	8.02	7.67	7.42	7.62	7.65	7.55	6.87	7.67
Potassium (K)		4.1	3.5	4.7	4.3	3.3	4.2	4.2	4.2	3.9	4.2	4.6	4.3	3.9	3.5	4.4	4.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.7	10.8	10.8	9.7	7.2	11.7	9.3	10.8	9.8	8.7	9	12	8.5	7.6	13.3	12
Radium 226 (pCi/L)		2.9	1.6	2.4	2.1	1.6	3	1.9	2.7	1.8	1.9	2.2	1.8	1.5	2.6	1.8	1.7
Radium 228 (pCi/L)		9.8	9.2	8.4	7.6	5.6	8.7	7.4	8.1	8	6.8	6.8	10.2	7	5	11.5	10.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		14.7	13.3	13.4	13.5	12	14.4	13.3	13.3	13	12.9	13.5	13.5	13.5	12.3	13.3	13.3
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		55.6	50.1	62.2	52.2	47.2	55.6	61.3	59.5	53.8	53.6	59.9	60.7	54.4	51.3	63.7	63.9
TDS @ 180° C.	GPS (500)	916	805	1120	969	852	1060	1150	1030	890	1090	1170	1030	911	960	1150	1140
Sulfate (SO4)		504	449	634	540	464	615	693	565	493	662	672	589		528	641	651
Temperature (C)		10.1	9.9	12	9.3	9	9.6	10.7	9.5	8.4	9.5	9.3	7.9	7.4	8.5	12.9	11.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.08	0.1	0.04	0.06
Uranium, natural (pCi/L)	GPS (36)	10.9	10.6	12.1	12.4	9.8	11.6	12.6	13.7	10.7	11.5	11.7	12.7	23.5	10.2	9.5	11.9
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01

KENNECOTT URANIUM COMPANY					
TMW-115		2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/22/2017	4/17/2017	7/12/2017	10/17/2017
TDS A/C Balance (dec. %)		1.22	1.2	1.49	0.42
Alk-CaCO ₃		132	129	133	139
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		161	158	162	169
Boron (B)		<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		210	225	241	224
Carbonate (CO ₃)		<1	<1	<1	<1
Chloride (Cl)		20	20	20	18
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1310	1410	1510	1410
Cond-Field (umhos/cm)		1435	1759	2000	2020
Copper (Cu)		<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	3.9	5.7	3.4	3.4
Iron (Fe)	GPS (0.6)	0.14	0.1	0.19	0.14
Lead (Pb210) (pCi/L)	GPS (8.9)	0.9	0.5	1.4	0.4
Lead (Pb)		<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		17.4	18.6	20.5	19
Manganese (Mn)	GPS (0.2)	0.13	0.13	0.16	0.21
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.71	7.72	7.71	7.8
pH (Field) (Std. Units)		7.76	7.36	7.27	7.46
Potassium (K)		4	4.2	4.3	4.2
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.9	9.7	10.8	9.3
Radium 226 (pCi/L)		1.6	1.7	1.8	1.2
Radium 228 (pCi/L)		6.3	8	9	8.1
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001
Silica (SiO ₂)		13.6	13.7	13.2	14.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01
Sodium (Na)		56.4	61.5	62.6	59.2
TDS @ 180° C.	GPS (500)	959	1070	1150	1120
Sulfate (SO ₄)		558	613	617	590
Temperature (C)		8.3	9.2	9.5	9.2
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.7	0.05	0.04	0.02
Uranium, natural (pCi/L)	GPS (36)	11.8	11.2	11.9	14.3
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.01	0.13	<0.01

Characterization Plan

Monitor Wells and Boreholes

KENNECOTT URANIUM COMPANY				
MAC-1		2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/6/2017	12/7/2017	12/18/2017
TDS A/C Balance (dec. %)		2.27	3.36	4.74
Alk-CaCO ₃		45	445	28
Aluminum (Al)	GPS (1.8)	<0.1	0.4	<0.1
Arsenic (As)	GPS (.05)	0.004	0.002	0.002
Barium (Ba)		<0.001	<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		<5.0	<5.1	<5.2
Boron (B)		<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005
Calcium (Ca)		89.6	165	83.8
Carbonate (CO ₃)		16	29	16
Chloride (Cl)		10	10	6
Chromium (Cr)	GPS (.05)	<0.01	0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001
Cond (umhos/cm)		781	2270	562
Cond-Field (umhos/cm)				730
Copper (Cu)		<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005
Fluoride (F)		0.6	0.5	0.3
Gross Alpha (pCi/L)	GPS (15)	1.5	1.1	1.1
Iron (Fe)	GPS (0.6)	<0.05	0.26	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.5	-0.3	0.7
Lead (Pb)		<0.01	<0.01	<0.01
Magnesium (Mg)		0.6	<0.5	0.6
Manganese (Mn)	GPS (0.2)	<0.01	0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		0.02	0.03	<0.01
Nickel (Ni)	GPS (.01)	<0.01	0.02	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	10.4	12.1	10.7
pH (Field) (Std. Units)				11.93
Potassium (K)		8.7	15.8	6.8
Combined Ra226/228 (pCi/L)	GPS (5.8)	1.9	2	1.8
Radium 226 (pCi/L)		0.6	1.1	0.6
Radium 228 (pCi/L)		1.3	0.9	1.2
Selenium (Se)	GPS (.01)	0.001	<0.001	<0.001
Silica (SiO ₂)		31.5	27.9	20.2
Silver (Ag)		<0.01	<0.01	<0.01
Sodium (Na)		52.4	62.2	39.2
TDS @ 180° C.	GPS (500)	474	666	386
Sulfate (SO ₄)		264	142	231
Temperature (C)				7.7
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)		0.1	0.2	0.1
Uranium, natural (pCi/L)	GPS (36)	<0.2	<0.2	0.3
Vanadium (V205)		<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.65	<0.01

KENNECOTT URANIUM COMPANY			
MAC-2		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/18/2017	11/28/2017
TDS A/C Balance (dec. %)		3.86	2.22
Alk-CaCO3		66	53
Aluminum (Al)	GPS (1.8)	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.006
Barium (Ba)		<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01
Bicarbonate (HCO3)		81	56
Boron (B)		<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005
Calcium (Ca)		64.2	53.6
Carbonate (CO3)			<5.0
Chloride (Cl)		7	12
Chromium (Cr)	GPS (.05)	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001
Cond (umhos/cm)		534	827
Cond-Field (umhos/cm)			862
Copper (Cu)		<0.01	<0.01
Cyanide (CN)		<0.005	<0.005
Fluoride (F)		0.4	0.7
Gross Alpha (pCi/L)	GPS (15)		1.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)		0.2
Lead (Pb)		<0.01	<0.01
Magnesium (Mg)		7.5	3.6
Manganese (Mn)	GPS (0.2)	0.02	<0.01
Mercury (Hg)		<0.0002	<0.0002
Molybdenum (Mo)		0.01	0.11
Nickel (Ni)	GPS (.01)	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	0.2
pH (Std. Units)	GPS (6.8)	8.25	8.84
pH (Field) (Std. Units)			9.06
Potassium (K)		4.4	8.2
Combined Ra226/228 (pCi/L)	GPS (5.8)		4.2
Radium 226 (pCi/L)			1.9
Radium 228 (pCi/L)			2.3
Selenium (Se)	GPS (.01)	<0.001	0.001
Silica (SiO2)		2.7	8.7
Silver (Ag)		<0.01	<0.01
Sodium (Na)		36.5	105
TDS @ 180° C.	GPS (500)	344	498
Sulfate (SO4)		171	285
Temperature (C)			8.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01
Thorium 230 (pCi/L.)			0.02
Uranium, natural (pCi/L)	GPS (36)	13.4	1.9
Vanadium (V205)		<0.1	<0.1
Zinc (ZN)		0.11	<0.01

KENNECOTT URANIUM COMPANY			
MAC-3		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	10/20/2017	11/28/2017
TDS A/C Balance (dec. %)		4.49	1.91
Alk-CaCO3		83	144
Aluminum (Al)	GPS (1.8)	<0.1	0.3
Arsenic (As)	GPS (.05)	<0.001	0.001
Barium (Ba)		<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01
Bicarbonate (HCO3)		102	<5.0
Boron (B)		<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005
Calcium (Ca)		183	206
Carbonate (CO3)		<5.0	26
Chloride (Cl)		5	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01
Cobalt (Co)		0.001	<0.001
Cond (umhos/cm)		1070	1470
Cond-Field (umhos/cm)			1620
Copper (Cu)		<0.01	<0.01
Cyanide (CN)		<0.005	<0.005
Fluoride (F)		0.2	0.5
Gross Alpha (pCi/L)	GPS (15)	2.7	0.9
Iron (Fe)	GPS (0.6)	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.6	0.3
Lead (Pb)		<0.01	<0.01
Magnesium (Mg)		11.3	<0.5
Manganese (Mn)	GPS (0.2)	0.06	<0.01
Mercury (Hg)		<0.0002	<0.0002
Molybdenum (Mo)		0.02	0.02
Nickel (Ni)	GPS (.01)	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	0.1
pH (Std. Units)	GPS (6.8)	8.13	11.4
pH (Field) (Std. Units)			12
Potassium (K)		7.4	11.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.4	3.5
Radium 226 (pCi/L)		1.8	1.2
Radium 228 (pCi/L)		4.6	2.3
Selenium (Se)	GPS (.01)	0.002	0.014
Silica (SiO2)		3.9	19.5
Silver (Ag)		<0.01	<0.01
Sodium (Na)		57.3	57.1
TDS @ 180° C.	GPS (500)	808	859
Sulfate (SO4)		471	454
Temperature (C)			8.6
Thallium (Tl)	GPS (7.0)	<0.01	<0.01
Thorium 230 (pCi/L.)		0.06	0.1
Uranium, natural (pCi/L)	GPS (36)	70.5	<0.2
Vanadium (V205)		<0.1	<0.1
Zinc (ZN)		<0.01	<0.01

KENNECOTT URANIUM COMPANY				
MAC-4		2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/28/2017	11/28/2017	12/19/2017
TDS A/C Balance (dec. %)		1.04	0.11	1.24
Alk-CaCO3		73	48	91
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001
Barium (Ba)		<0.001	<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		81	58	111
Boron (B)		<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005
Calcium (Ca)		49.9	48.9	107
Carbonate (CO3)		<5.0	<5.0	<5.0
Chloride (Cl)		15	15	25
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001
Cond (umhos/cm)		569	569	701
Cond-Field (umhos/cm)				838
Copper (Cu)		<0.01	0.02	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005
Fluoride (F)		0.7	0.4	0.1
Gross Alpha (pCi/L)	GPS (15)	1.9	1.9	2.3
Iron (Fe)	GPS (0.6)	<0.05	0.06	0.12
Lead (Pb210) (pCi/L)	GPS (8.9)	-1	0.4	-0.5
Lead (Pb)		<0.01	<0.01	<0.01
Magnesium (Mg)		5.1	5.1	6.5
Manganese (Mn)	GPS (0.2)	0.04	0.04	0.08
Mercury (Hg)		<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		0.03	0.02	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	8.52	8.52	7.96
pH (Field) (Std. Units)				7.96
Potassium (K)		8.6	8.6	3.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	4.8	2.8	7
Radium 226 (pCi/L)		2	2	1.7
Radium 228 (pCi/L)		2.8	0.8	5.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001
Silica (SiO2)		12.1	12.1	12.5
Silver (Ag)		<0.01	<0.01	<0.01
Sodium (Na)		53.7	52.4	40.9
TDS @ 180° C.	GPS (500)	370	370	527
Sulfate (SO4)		190	190	259
Temperature (C)				8.8
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.3	0.04	0.03
Uranium, natural (pCi/L)	GPS (36)	1.2	0.4	287
Vanadium (V205)		<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.03	0.02

KENNECOTT URANIUM COMPANY			
MAC-5		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/19/2017	12/21/2017
TDS A/C Balance (dec. %)		0.36	0.44
Alk-CaCO ₃		81	123
Aluminum (Al)	GPS (1.8)	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001
Barium (Ba)		<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01
Bicarbonate (HCO ₃)		99	150
Boron (B)		<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005
Calcium (Ca)		245	319
Carbonate (CO ₃)		<5.0	<5.0
Chloride (Cl)		67	83
Chromium (Cr)	GPS (.05)	<0.01	<0.01
Cobalt (Co)		<0.001	0.002
Cond (umhos/cm)		1840	1840
Cond-Field (umhos/cm)			2240
Copper (Cu)		<0.01	<0.01
Cyanide (CN)		<0.005	<0.005
Fluoride (F)		0.2	<0.1
Gross Alpha (pCi/L)	GPS (15)	6.9	4.9
Iron (Fe)	GPS (0.6)	<0.05	0.75
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.2	0.1
Lead (Pb)		<0.01	<0.01
Magnesium (Mg)		22.3	35.9
Manganese (Mn)	GPS (0.2)	0.19	0.17
Mercury (Hg)		<0.0002	<0.0002
Molybdenum (Mo)		0.03	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		0.9	11.3
pH (Std. Units)	GPS (6.8)	7.9	7.76
pH (Field) (Std. Units)			7.42
Potassium (K)		14	6.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	14.7	9.1
Radium 226 (pCi/L)		4.8	3.1
Radium 228 (pCi/L)		9.9	6
Selenium (Se)	GPS (.01)	0.011	0.282
Silica (SiO ₂)		7.7	8.6
Silver (Ag)		<0.01	<0.01
Sodium (Na)		104	120
TDS @ 180° C.	GPS (500)		1630
Sulfate (SO ₄)		744	906
Temperature (C)			8.9
Thallium (Tl)	GPS (7.0)	<0.01	<0.01
Thorium 230 (pCi/L.)		0.1	0.2
Uranium, natural (pCi/L)	GPS (36)	35.6	1070
Vanadium (V205)		<0.1	<0.1
Zinc (ZN)		<0.01	0.02

KENNECOTT URANIUM COMPANY				
MAC-6		2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/30/2017	12/1/2017	12/13/2017
TDS A/C Balance (dec. %)		0.16	3.76	1.77
Alk-CaCO ₃		361	377	51
Aluminum (Al)	GPS (1.8)	0.6	0.4	<0.1
Arsenic (As)	GPS (.05)	0.001	0.002	0.002
Barium (Ba)		<0.001	<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		<5.1	<5.2	62
Boron (B)		<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005
Calcium (Ca)		151	182	53.8
Carbonate (CO ₃)		36	33	ND
Chloride (Cl)		13	11	11
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001
Cond (umhos/cm)		1770	1910	360
Cond-Field (umhos/cm)				597
Copper (Cu)		<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005
Fluoride (F)		0.3	0.3	0.2
Gross Alpha (pCi/L)	GPS (15)	0.9	1.1	1.4
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.02	0.3	-0.1
Lead (Pb)		<0.01	<0.01	0.02
Magnesium (Mg)		<0.5	<0.5	2.6
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		0.02	0.02	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	0.2	0.2
pH (Std. Units)	GPS (6.8)	11.9	12	8.19
pH (Field) (Std. Units)				10.14
Potassium (K)		12	12.6	3.1
Combined Ra226/228 (pCi/L)	GPS (5.8)	2.9	1.8	2.7
Radium 226 (pCi/L)		1.8	0.8	1.4
Radium 228 (pCi/L)		1.1	1	1.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	0.005
Silica (SiO ₂)		23.4	28.6	15.5
Silver (Ag)		<0.01	<0.01	<0.01
Sodium (Na)		53.3	52.1	36
TDS @ 180° C.	GPS (500)	539	637	326
Sulfate (SO ₄)		126	142	161
Temperature (C)				9.5
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.1	0.07	0.3
Uranium, natural (pCi/L)	GPS (36)	<0.2	<0.2	5.1
Vanadium (V205)		<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY				
MAC-7		2017		
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/2/2017	12/2/2017	12/18/2017
TDS A/C Balance (dec. %)		21.8	0.02	0.42
Alk-CaCO ₃		310	189	38
Aluminum (Al)	GPS (1.8)	0.4	0.4	<0.1
Arsenic (As)	GPS (.05)	0.002	0.002	0.002
Barium (Ba)		<0.001	<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01
Bicarbonate (HCO ₃)		<5.0	<5.0	46
Boron (B)		<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005
Calcium (Ca)		177	177	237
Carbonate (CO ₃)		33	33	<5.0
Chloride (Cl)		76	76	68
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001
Cond (umhos/cm)		2160	1440	1220
Cond-Field (umhos/cm)				1537
Copper (Cu)		<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005
Fluoride (F)		0.4	0.4	0.2
Gross Alpha (pCi/L)	GPS (15)	1.8	1.8	3.1
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.3	-0.3	1.4
Lead (Pb)		<0.01	<0.01	<0.01
Magnesium (Mg)		<0.5	<0.5	10.1
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	0.04
Mercury (Hg)		<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		1.02	0.02	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		1.5	1.5	<0.1
pH (Std. Units)	GPS (6.8)	11.8	11.5	8.44
pH (Field) (Std. Units)				9.35
Potassium (K)		9.5	13.9	5.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.8	3	8.1
Radium 226 (pCi/L)		2.1	1.5	2.6
Radium 228 (pCi/L)		3.7	1.5	5.5
Selenium (Se)	GPS (.01)	0.035	0.035	<0.001
Silica (SiO ₂)		46.1	46.1	14.3
Silver (Ag)		<0.01	<0.01	<0.01
Sodium (Na)		65.3	65.3	62.6
TDS @ 180° C.	GPS (500)	756	756	1080
Sulfate (SO ₄)		299	287	609
Temperature (C)				7.4
Thallium (Tl)	GPS (7.0)	<0.01	0.07	<0.01
Thorium 230 (pCi/L.)		0.07	<.01	0.1
Uranium, natural (pCi/L)	GPS (36)	<0.2	<0.2	1.6
Vanadium (V205)		<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY		
DAC-1 Borehole		2017
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/15/2017
TDS A/C Balance (dec. %)		2.84
Alk-CaCO ₃		84
Aluminum (Al)	GPS (1.8)	<0.1
Arsenic (As)	GPS (.05)	<0.001
Barium (Ba)		<0.001
Beryllium (Be)	GPS (.01)	<0.01
Bicarbonate (HCO ₃)		98
Boron (B)		<0.1
Cadmium (Cd)	GPS (.01)	<0.005
Calcium (Ca)		77.6
Carbonate (CO ₃)		<5.0
Chloride (Cl)		22
Chromium (Cr)	GPS (.05)	<0.01
Cobalt (Co)		<0.001
Cond (umhos/cm)		830
Cond-Field (umhos/cm)		
Copper (Cu)		<0.01
Cyanide (CN)		<0.005
Fluoride (F)		0.4
Gross Alpha (pCi/L)	GPS (15)	0.6
Iron (Fe)	GPS (0.6)	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.01
Lead (Pb)		<0.01
Magnesium (Mg)		7.6
Manganese (Mn)	GPS (0.2)	0.08
Mercury (Hg)		<0.0002
Molybdenum (Mo)		0.01
Nickel (Ni)	GPS (.01)	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1
pH (Std. Units)	GPS (6.8)	8.47
pH (Field) (Std. Units)		
Potassium (K)		20.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.6
Radium 226 (pCi/L)		0.6
Radium 228 (pCi/L)		3
Selenium (Se)	GPS (.01)	<0.001
Silica (SiO ₂)		12.1
Silver (Ag)		<0.01
Sodium (Na)		69.6
TDS @ 180° C.	GPS (500)	557
Sulfate (SO ₄)		299
Temperature (C)		
Thallium (Tl)	GPS (7.0)	<0.01
Thorium 230 (pCi/L.)		0.09
Uranium, natural (pCi/L)	GPS (36)	<0.2
Vanadium (V205)		<0.1
Zinc (ZN)		<0.01

KENNECOTT URANIUM COMPANY			
DAC-2		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/12/2017	12/19/2017
TDS A/C Balance (dec. %)		2.75	1.61
Alk-CaCO ₃		57	52
Aluminum (Al)	GPS (1.8)	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	0.001
Barium (Ba)		<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01
Bicarbonate (HCO ₃)		<5.0	63
Boron (B)		<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005
Calcium (Ca)		134	103
Carbonate (CO ₃)		17	<5.0
Chloride (Cl)		10	8
Chromium (Cr)	GPS (.05)	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001
Cond (umhos/cm)		893	686
Cond-Field (umhos/cm)			830
Copper (Cu)		<0.01	<0.01
Cyanide (CN)		<0.005	<0.005
Fluoride (F)		0.4	0.2
Gross Alpha (pCi/L)	GPS (15)	3.4	11.1
Iron (Fe)	GPS (0.6)	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3	1.9
Lead (Pb)		<0.01	<0.01
Magnesium (Mg)		2.3	7.7
Manganese (Mn)	GPS (0.2)	<0.01	0.03
Mercury (Hg)		<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1
pH (Std. Units)	GPS (6.8)	10.8	7.96
pH (Field) (Std. Units)			10.07
Potassium (K)		8.7	4.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.3	13.7
Radium 226 (pCi/L)		3.9	10.6
Radium 228 (pCi/L)		1.4	3.1
Selenium (Se)	GPS (.01)	0.007	<0.001
Silica (SiO ₂)		42.2	14.1
Silver (Ag)		<0.01	<0.01
Sodium (Na)		51	42.9
TDS @ 180° C.	GPS (500)	662	526
Sulfate (SO ₄)		355	299
Temperature (C)			8.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01
Thorium 230 (pCi/L.)		0.1	0.07
Uranium, natural (pCi/L)	GPS (36)	<0.2	42.3
Vanadium (V205)		<0.1	<0.1
Zinc (ZN)		<0.01	<0.01

KENNECOTT URANIUM COMPANY		
DAC-3 Borehole		2017
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/17/2017
TDS A/C Balance (dec. %)		4.33
Alk-CaCO3		74
Aluminum (Al)	GPS (1.8)	0.2
Arsenic (As)	GPS (.05)	0.005
Barium (Ba)		<0.001
Beryllium (Be)	GPS (.01)	<0.01
Bicarbonate (HCO3)		<5.0
Boron (B)		<0.1
Cadmium (Cd)	GPS (.01)	<0.005
Calcium (Ca)		102
Carbonate (CO3)		26
Chloride (Cl)		10
Chromium (Cr)	GPS (.05)	<0.01
Cobalt (Co)		<0.001
Cond (umhos/cm)		866
Cond-Field (umhos/cm)		
Copper (Cu)		<0.01
Cyanide (CN)		<0.005
Fluoride (F)		0.5
Gross Alpha (pCi/L)	GPS (15)	4.2
Iron (Fe)	GPS (0.6)	0.06
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3
Lead (Pb)		<0.01
Magnesium (Mg)		<0.5
Manganese (Mn)	GPS (0.2)	<0.01
Mercury (Hg)		<0.0002
Molybdenum (Mo)		<0.01
Nickel (Ni)	GPS (.01)	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1
pH (Std. Units)	GPS (6.8)	11.3
pH (Field) (Std. Units)		
Potassium (K)		9.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	3.7
Radium 226 (pCi/L)		2.3
Radium 228 (pCi/L)		1.4
Selenium (Se)	GPS (.01)	<0.001
Silica (SiO2)		49.4
Silver (Ag)		<0.01
Sodium (Na)		46
TDS @ 180° C.	GPS (500)	558
Sulfate (SO4)		237
Temperature (C)		
Thallium (Tl)	GPS (7.0)	<0.01
Thorium 230 (pCi/L)		0.1
Uranium, natural (pCi/L)	GPS (36)	<0.2
Vanadium (V205)		<0.1
Zinc (ZN)		<0.01

KENNECOTT URANIUM COMPANY			
DAC-4		2017	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/14/2017	12/20/2017
TDS A/C Balance (dec. %)		1.12	1.77
Alk-CaCO ₃		50	82
Aluminum (Al)	GPS (1.8)	0.1	<0.1
Arsenic (As)	GPS (.05)	0.005	0.002
Barium (Ba)		<0.001	<0.001
Beryllium (Be)	GPS (.01)	<0.01	<0.01
Bicarbonate (HCO ₃)		<5.0	96
Boron (B)		<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005
Calcium (Ca)		98.3	60.1
Carbonate (CO ₃)		15	<5.0
Chloride (Cl)		7	5
Chromium (Cr)	GPS (.05)	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001
Cond (umhos/cm)		705	476
Cond-Field (umhos/cm)			537
Copper (Cu)		<0.01	<0.01
Cyanide (CN)		<0.005	<0.005
Fluoride (F)		0.6	0.2
Gross Alpha (pCi/L)	GPS (15)	14.7	33.6
Iron (Fe)	GPS (0.6)	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.3	2.4
Lead (Pb)		<0.01	<0.01
Magnesium (Mg)		ND	2.6
Manganese (Mn)	GPS (0.2)	ND	0.02
Mercury (Hg)		<0.0002	<0.0002
Molybdenum (Mo)		0.04	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1
pH (Std. Units)	GPS (6.8)	10.7	8.41
pH (Field) (Std. Units)			8.78
Potassium (K)		13.1	3.3
Combined Ra226/228 (pCi/L)	GPS (5.8)	12.7	34.3
Radium 226 (pCi/L)		10.8	30.4
Radium 228 (pCi/L)		1.9	3.9
Selenium (Se)	GPS (.01)	2.83	0.229
Silica (SiO ₂)		29.9	14
Silver (Ag)		<0.01	<0.01
Sodium (Na)		58.9	39.6
TDS @ 180° C.	GPS (500)	558	351
Sulfate (SO ₄)		308	147
Temperature (C)			8.4
Thallium (Tl)	GPS (7.0)	<0.01	<0.01
Thorium 230 (pCi/L.)		0.3	0.5
Uranium, natural (pCi/L)	GPS (36)	2.3	299
Vanadium (V205)		<0.1	<0.1
Zinc (ZN)		<0.01	<0.01

KENNECOTT URANIUM COMPANY		
DAC-5 Borehole		2017
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/11/2017
TDS A/C Balance (dec. %)		2.2
Alk-CaCO3		161
Aluminum (Al)	GPS (1.8)	3
Arsenic (As)	GPS (.05)	<0.001
Barium (Ba)		0.1
Beryllium (Be)	GPS (.01)	<0.01
Bicarbonate (HCO3)		196
Boron (B)		<0.1
Cadmium (Cd)	GPS (.01)	<0.005
Calcium (Ca)		384
Carbonate (CO3)		<5.0
Chloride (Cl)		9
Chromium (Cr)	GPS (.05)	0.02
Cobalt (Co)		0.012
Cond (umhos/cm)		2150
Cond-Field (umhos/cm)		
Copper (Cu)		<0.01
Cyanide (CN)		<0.005
Fluoride (F)		0.3
Gross Alpha (pCi/L)	GPS (15)	46.9
Iron (Fe)	GPS (0.6)	12.7
Lead (Pb210) (pCi/L)	GPS (8.9)	20.7
Lead (Pb)		0.03
Magnesium (Mg)		48.2
Manganese (Mn)	GPS (0.2)	1.08
Mercury (Hg)		<0.0002
Molybdenum (Mo)		<0.01
Nickel (Ni)	GPS (.01)	0.02
Nitrogen, Nitrate+Nitrite as N		<0.1
pH (Std. Units)	GPS (6.8)	7.39
pH (Field) (Std. Units)		
Potassium (K)		13.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	37.8
Radium 226 (pCi/L)		18.6
Radium 228 (pCi/L)		19.2
Selenium (Se)	GPS (.01)	<0.001
Silica (SiO2)		19.6
Silver (Ag)		<0.01
Sodium (Na)		70.9
TDS @ 180° C.	GPS (500)	1870
Sulfate (SO4)		1050
Temperature (C)		
Thallium (Tl)	GPS (7.0)	<0.01
Thorium 230 (pCi/L)		7.3
Uranium, natural (pCi/L)	GPS (36)	4.7
Vanadium (V205)		<0.1
Zinc (ZN)		0.24

KENNECOTT URANIUM COMPANY		
DAC-6 Borehole		2017
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	12/17/2017
TDS A/C Balance (dec. %)		2.57
Alk-CaCO3		93
Aluminum (Al)	GPS (1.8)	<0.1
Arsenic (As)	GPS (.05)	<0.001
Barium (Ba)		<0.1
Beryllium (Be)	GPS (.01)	<0.01
Bicarbonate (HCO3)		113
Boron (B)		<0.1
Cadmium (Cd)	GPS (.01)	<0.005
Calcium (Ca)		118
Carbonate (CO3)		<5.0
Chloride (Cl)		20
Chromium (Cr)	GPS (.05)	<0.01
Cobalt (Co)		<0.001
Cond (umhos/cm)		961
Cond-Field (umhos/cm)		
Copper (Cu)		<0.01
Cyanide (CN)		<0.005
Fluoride (F)		0.2
Gross Alpha (pCi/L)	GPS (15)	0.9
Iron (Fe)	GPS (0.6)	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	-0.3
Lead (Pb)		<0.01
Magnesium (Mg)		8.6
Manganese (Mn)	GPS (0.2)	0.11
Mercury (Hg)		<0.0002
Molybdenum (Mo)		<0.01
Nickel (Ni)	GPS (.01)	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1
pH (Std. Units)	GPS (6.8)	8.13
pH (Field) (Std. Units)		
Potassium (K)		10.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	5.7
Radium 226 (pCi/L)		1.4
Radium 228 (pCi/L)		4.3
Selenium (Se)	GPS (.01)	<0.001
Silica (SiO2)		12.9
Silver (Ag)		<0.01
Sodium (Na)		66.4
TDS @ 180° C.	GPS (500)	688
Sulfate (SO4)		375
Temperature (C)		
Thallium (Tl)	GPS (7.0)	<0.01
Thorium 230 (pCi/L)		0.1
Uranium, natural (pCi/L)	GPS (36)	<0.2
Vanadium (V205)		<0.1
Zinc (ZN)		<0.01

KENNECOTT URANIUM COMPANY		
DAC-7 Borehole		2017
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	11/12/2017
TDS A/C Balance (dec. %)		4.57
Alk-CaCO3		469
Aluminum (Al)	GPS (1.8)	0.3
Arsenic (As)	GPS (.05)	0.001
Barium (Ba)		<0.1
Beryllium (Be)	GPS (.01)	<0.01
Bicarbonate (HCO3)		<5.0
Boron (B)		<0.1
Cadmium (Cd)	GPS (.01)	<0.005
Calcium (Ca)		167
Carbonate (CO3)		33
Chloride (Cl)		12
Chromium (Cr)	GPS (.05)	0.02
Cobalt (Co)		<0.001
Cond (umhos/cm)		2360
Cond-Field (umhos/cm)		
Copper (Cu)		<0.01
Cyanide (CN)		<0.005
Fluoride (F)		0.3
Gross Alpha (pCi/L)	GPS (15)	0.0004
Iron (Fe)	GPS (0.6)	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	0.5
Lead (Pb)		<0.01
Magnesium (Mg)		<0.5
Manganese (Mn)	GPS (0.2)	<0.01
Mercury (Hg)		<0.0002
Molybdenum (Mo)		0.03
Nickel (Ni)	GPS (.01)	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1
pH (Std. Units)	GPS (6.8)	12.1
pH (Field) (Std. Units)		
Potassium (K)		10.7
Combined Ra226/228 (pCi/L)	GPS (5.8)	
Radium 226 (pCi/L)		1.3
Radium 228 (pCi/L)		1.8
Selenium (Se)	GPS (.01)	0.52
Silica (SiO2)		42.1
Silver (Ag)		<0.01
Sodium (Na)		57.7
TDS @ 180° C.	GPS (500)	716
Sulfate (SO4)		119
Temperature (C)		
Thallium (Tl)	GPS (7.0)	<0.01
Thorium 230 (pCi/L)		0.09
Uranium, natural (pCi/L)	GPS (36)	<0.2
Vanadium (V205)		<0.1
Zinc (ZN)		<0.01

Catchment Basin Monitor Wells

KENNECOTT URANIUM COMPANY																				
TMW-91																				
NORTHING: 148,518.38	Groundwater Protection	2013																		
EASTING: 323,956.86						2014														
ND = Non-detectable	Standard	02/19/13	04/29/13	10/21/13	1/27/2014	04/22/14	07/22/14	10/28/14	1/26/2015	4/28/2015	7/21/2015	12/1/2015	2/16/2016	4/13/2016	7/26/2016	10/12/2016	3/21/2017	4/3/2017	7/12/2017	10/16/2017
	(GPS)																			
	as of 5/26/05																			
ORGANICS mg/L:																				
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																				
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	GPS 3 (2)	ND	ND	0.0012	ND	ND	0.0013	ND	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																				
(2) - WY Drinking Water Equivalent Level																				
(3) - WY VRP, Fact Sheet 12																				
(4) - EPA RBC - Tap Water																				

KENNECOTT URANIUM COMPANY																						
TMW-92																						
NORTHING: 148,504.47	Groundwater Protection	2013				2014				2015				2016				2017				
EASTING: 323,951.33																						
ND = Non-detectable	Standard	1/29/13	6/11/13	9/10/13	10/29/13	1/27/14	5/20/14	7/22/14	11/11/14	3/23/2015	6/1/2015	9/14/2015	12/14/15	3/8/2016	6/20/2016	10/10/2016	11/14/2016	3/8/2017	4/26/2017	6/5/2017	9/12/2017	12/13/2017
ORGANICS mg/L:																						
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																						
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p-Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																						
(2) - WY Drinking Water Equivalent Level																						
(3) - WY VRP, Fact Sheet 12																						
(4) - EPA RBC - Tap Water																						
(LAB: Energy Labs Inc. unless noted.)																						

KENNECOTT URANIUM COMPANY																					
TMW-93																					
NORTHING: 148,399.92 EASTING: 324,099.96	Groundwater Protection	2013				2014					2015				2016				2017		
ND = Non-detectable	Standard	1/29/13	6/10/13	9/9/13	10/21/13	2/24/14	4/28/14	8/26/14	11/12/14	3/23/2015	6/1/2015	9/14/2015	12/14/15	3/8/2016	6/21/2016	10/5/2016	11/14/2016	2/28/2017	6/5/2017	9/12/2017	12/18/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																						
TMW-94																						
NORTHING: 148,400.13 EASTING: 324,000.02		Groundwater Protection	2013				2014				2015				2016				2017			
ND = Non-detectable		Standard	1/29/13	6/10/13	9/9/13	10/21/13	2/4/14	4/28/14	8/26/14	11/11/14	03/23/15	06/01/15	09/14/15	12/14/15	3/8/2016	6/13/2016	10/5/2016	11/14/2016	2/27/2017	6/5/2017	9/12/2017	12/18/2017
ORGANICS m/L:																						
Diesel Range Organics (DRO)		GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)		GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																						
Chloromethane		0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane		GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene		GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene		GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene		GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane		GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene		GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene		GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes		GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																						
(2) - WY Drinking Water Equivalent Level																						
(3) - WY VRP, Fact Sheet 12																						
(4) - EPA RBC - Tap Water																						
(LAB: Energy Labs Inc. unless noted.)																						

KENNECOTT URANIUM COMPANY																					
TMW-95																					
NORTHING: 148,399.94 EASTING: 323,900.08	Groundwater Protection	2013				2014					2015					2016				2017	
ND = Non-detectable	Standard	1/29/13	6/10/13	9/9/13	10/21/13	2/4/14	4/28/14	8/26/14	11/12/14	3/23/15	6/1/15	9*/14/15	12/14/15	3/8/2016	6/13/2016	10/10/2016	11/15/2016	2/28/2017	6/5/2017	9/12/2017	11/7/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																					
TMW-96																					
NORTHING: 148,500.01 EASTING: 323,807.75	Groundwater Protection	2013					2014				2015				2016				2017		
ND = Non-detectable	Standard	3/25/13	4/29/13	7/8/13	10/1/13	3/18/14	4/1/14	7/8/14	10/21/14	1/26/15	4/15/15	7/20/15	11/3/15	2/16/2016	4/21/2016	7/11/2016	10/3/2016	3/8/2017	4/18/2017	7/31/2017	10/17/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	0.0019	ND	ND	ND	ND	ND	ND	ND	0.0017	0.0021	ND	ND	0.0017	0.0021	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																						
TMW-97																						
NORTHING: 148,599.86 EASTING: 323,799.93	Groundwater Protection	2013				2014				2015					2016				2017			
ND = Non-detectable	Standard	3/25/13	4/29/13	7/8/13	10/1/13	3/18/14	4/1/14	7/8/14	11/10/14	3/25/15	6/2/15	9/2/15	11/3/15	3/21/16	6/20/16	9/7/16	11/7/16	3/8/2017	6/6/2017	1/13/2017	11/1/2017	
ORGANICS mg/L:																						
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																						
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	0.0024	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																						
(2) - WY Drinking Water Equivalent Level																						
(3) - WY VRP, Fact Sheet 12																						
(4) - EPA RBC - Tap Water																						
(LAB: Energy Labs Inc. unless noted.)																						

KENNECOTT URANIUM COMPANY																					
TMW-98																					
NORTHING: 148699.84 EASTING: 323810.19	Groundwater Protection	2013				2014				2015				2016				2017			
ND = Non-detectable	Standard	3/5/13	6/11/13	9/9/13	10/28/13	2/4/14	4/29/14	8/11/14	11/10/14	3/30/15	6/2/15	9/2/15	12/15/15	3/15/16	6/21/16	10/11/16	11/9/16	3/13/2017	6/6/2017	9/13/2017	11/6/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	0.0024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																					
TMW-99																					
NORTHING: 148707.32	Groundwater																				
EASTING: 323898.85	Protection	2013				2014				2015				2016				2017			
ND = Non-detectable	Standard	3/5/13	6/11/13	9/9/13	11/11/13	2/24/14	5/6/14	8/12/14	11/12/14	3/30/15	6/2/15	9/2/15	12/15/15	3/15/16	6/21/16	10/11/16	11/9/16	2/28/2017	6/12/2017	9/13/2017	12/13/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	0.0026	0.0018	0.0013	0.0018	0.002	0.0016	0.0017	0.0019	0.0027	0.0015	0.0013	0.0012	0.0019	0.0012	0.0013	ND	1.4	1.5	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																							
TMW-100																							
NORTHING: 148799.77	Groundwater Protection																						
EASTING: 324004.42		2013					2014				2015				2016				2017				
ND = Non-detectable	Standard	1/29/13	5/20/13	8/13/13	10/29/13	2/3/14	4/29/14	8/11/14	11/18/14	2/10/15	6/2/15	8/12/15	12/15/15	2/15/16	6/21/16	8/8/16	10/18/16	11/9/16	2/28/2017	4/4/2017	6/6/2017	8/1/2017	11/7/2017
ORGANICS mg/L:																							
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND	7	6.6	1.9	1.1	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																							
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND
(1) - EPA MCL																							
(2) - WY Drinking Water Equivalent Level																							
(3) - WY VRP, Fact Sheet 12																							
(4) - EPA RBC - Tap Water																							
(LAB: Energy Labs Inc. unless noted.)																							

KENNECOTT URANIUM COMPANY																					
TMW-101																					
NORTHING: 148,800.10 EASTING: 324,100.06	Groundwater Protection	2013				2014				2015				2016				2017			
ND = Non-detectable	Standard	1/29/13	5/20/13	8/13/13	10/29/13	2/3/14	4/29/14	8/11/14	11/19/14	2/10/15	6/2/15	8/12/15	12/16/15	2/15/2016	6/22/2016	8/2/2016	11/9/2016	3/6/2017	6/6/2017	8/1/2017	11/7/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																			
TMW-102																			
NORTHING: 148,600.02	Groundwater Protection	2013			2014				2015					2016				2017	
EASTING: 323,968.63																			
ND = Non-detectable	Standard	2/19/13	4/29/13	10/21/13	1/27/14	4/22/14	7/22/14	10/28/14	1/26/15	5/4/15	7/22/15	12/2/15	2/16/2016	4/13/2016	7/27/2016	10/12/2016	3/21/2017	7/18/2017	10/16/2017
ORGANICS mg/L:																			
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																			
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																			
(2) - WY Drinking Water Equivalent Level																			
(3) - WY VRP, Fact Sheet 12																			
(4) - EPA RBC - Tap Water																			
(LAB: Energy Labs Inc. unless noted.)																			

KENNECOTT URANIUM COMPANY																						
TMW-103																						
NORTHING: 149,144.44 EASTING: 323,576.50		Groundwater Protection	2013				2014					2015				2016				2017		
ND = Non-detectable	Standard	1/21/13	4/2/13	7/7/13	10/14/13	1/13/14	4/7/14	7/8/14	10/29/14	1/26/15	4/24/15	7/22/15	11/16/15	2/17/16	4/11/16	7/31/16	10/19/16	2/21/17	4/18/17	7/18/17	10/18/17	
ORGANICS mg/L:																						
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																						
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	0.005 (1)	0.0027	0.0027	0.0022	0.0016	0.0026	0.002	0.0023	0.0012	0.0022	0.0017	0.0016	0.0014	0.0015	0.0017	ND	ND	1.1	1.2	1.1	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl ethyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform		0.0027	0.0047	0.0021	0.002	0.0017	0.0015	0.0016	0.0014	0.0016	0.0013	0.0013	0.0013	0.0011	0.0011	ND	0.0013	1.1	1.2	1.3	1.1	
(1) - EPA MCL																						
(2) - WY Drinking Water Equivalent Level																						
(3) - WY VRP, Fact Sheet 12																						
(4) - EPA RBC - Tap Water																						
(LAB: Energy Labs Inc. unless noted.)																						

KENNECOTT URANIUM COMPANY																					
TMW-104																					
NORTHING: 148,508.55 EASTING: 324,122.60	Groundwater Protection	2013				2014				2015				2016				2016			
ND = Non-detectable	Standard	1/28/13	6/11/13	8/13/13	10/29/13	2/3/14	4/8/14	7/15/14	11/19/14	2/3/15	6/3/15	8/12/15	12/16/15	2/15/16	6/22/16	8/2/16	11/15/16	2/15/16	6/22/16	8/2/16	11/15/16
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																							
TMW-106																							
NORTHING: 149,120.61 EASTING: 323,577.45		Groundwater Protection	2013				2014				2015				2016				2017				
ND = Non-detectable		Standard	1/21/13	4/2/13	7/7/13	10/14/13	1/13/14	4/7/14	7/8/14	10/29/14	1/26/15	4/22/15	7/22/15	11/16/15	2/17/16	4/11/16	7/31/16	10/13/16	2/21/17	4/18/2017	7/19/2017	10/18/2017	
ORGANICS mg/L:																							
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																							
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005 (1)	0.0017	0.0016	ND	ND	ND	ND	0.0011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																							
(2) - WY Drinking Water Equivalent Level																							
(3) - WY VRP, Fact Sheet 12																							
(4) - EPA RBC - Tap Water																							
(LAB: Energy Labs Inc. unless noted.)																							

KENNECOTT URANIUM COMPANY																					
TMW-107																					
NORTHING: 148,109.87	Groundwater Protection																				
EASTING: 323,621.68		2013				2014				2015					2016				2017		
ND = Non-detectable	Standard	1/21/13	4/22/13	7/7/13	10/14/13	1/13/14	4/7/14	7/15/14	10/29/14	1/21/15	4/28/15	7/21/15	12/16/15	2/17/16	4/12/16	7/31/16	10/18/16	2/27/2017	4/5/2017	7/18/2017	10/18/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																							
TMW-108		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
NORTHING: 148,581.99 EASTING: 323,650.69	Groundwater Protection	2013								2014								2015					
ND = Non-detectable	Standard	1/21/13	1/21/13	4/15/13	4/15/13	7/7/13	7/7/13	10/15/13	10/15/13	1/14/14	1/14/14	4/1/14	4/1/14	7/8/14	7/8/14	11/3/14	11/3/14	1/20/15	1/20/15	4/21/15	4/21/15	7/20/15	7/20/15
ORGANICS mg/L:																							
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																							
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	0.001	0.001	0.001	ND	ND	ND	ND	0.0012	0.001	ND	ND	ND	0.001	0.0011	ND	ND	0.0011	0.0011	0.001	0.0011	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																							
(2) - WY Drinking Water Equivalent Level																							
(3) - WY VRP, Fact Sheet 12																							
(4) - EPA RBC - Tap Water																							
(LAB: Energy Labs Inc. unless noted.)																							

KENNECOTT URANIUM COMPANY																			
TMW-108		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
NORTHING: 148,581.99 EASTING: 323,650.69	Groundwater Protection			2016								2017							
ND = Non-detectable	Standard	11/16/15	11/16/15	1/12/16	1/12/16	4/11/16	4/11/16	7/13/16	7/13/16	10/11/16	10/11/16	1/21/2017	1/21/2017	4/17/2017	4/17/2017	7/19/2017	7/19/2017	10/23/2017	10/23/2017
ORGANICS mg/L:																			
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																			
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	0.001	ND	0.0011	ND	0.002	0.0012	0.0011	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	0.0016	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																			
(2) - WY Drinking Water Equivalent Level																			
(3) - WY VRP, Fact Sheet 12																			
(4) - EPA RBC - Tap Water																			
(LAB: Energy Labs Inc. unless noted.)																			

KENNECOTT URANIUM COMPANY																					
TMW-109																					
NORTHING: 148,563.38	Groundwater Protection	2013				2014				2015					2016				2017		
EASTING: 323,651.83																					
ND = Non-detectable	Standard	1/22/13	4/2/13	7/7/13	10/15/13	1/13/14	4/8/14	7/8/14	11/3/14	1/21/15	4/21/15	7/21/15	12/1/15	1/12/16	4/19/16	7/13/16	10/19/16	2/21/2017	4/17/2017	7/19/2017	10/23/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
1,1-Dichloroethane	GPS 3 (2)	ND	0.002	ND	0.001	ND	ND	ND	ND	ND	ND	0.0013	ND	ND	0.0011	0.001	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.005 (1)	0.0016	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																					
TMW-110																					
NORTHING: 148,088.65 EASTING: 323,625.57	Groundwater Protection	2013				2014				2015				2016			2017				
ND = Non-detectable	Standard	1/21/13	4/15/13	7/7/13	10/14/13	1/13/14	4/7/14	7/15/14	10/29/14	1/21/15	4/28/15	7/21/15	12/6/15	2/17/16	4/12/16	7/31/16	10/18/16	2/27/2017	4/5/2017	7/18/2017	10/18/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
1,1-Dichloroethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																						
TMW-111																						
NORTHING: 148,800.06 EASTING: 324,200.03	Groundwater Protection	2013				2014				2015					2016				2017			
ND = Non-detectable	Standard	1/28/13	4/1/13	7/7/13	10/15/13	1/27/14	4/8/14	8/4/14	11/19/14	2/3/15	6/3/15	8/12/15	12/6/15	2/15/2016	6/27/2016	8/1/2016	11/7/2016	2/22/2017	6/12/2017	8/1/2017	11/7/2017	
ORGANICS:																						
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																						
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																						
(2) - WY Drinking Water Equivalent Level																						
(3) - WY VRP, Fact Sheet 12																						
(4) - EPA RBC - Tap Water																						
(LAB: Energy Labs Inc. unless noted.)																						

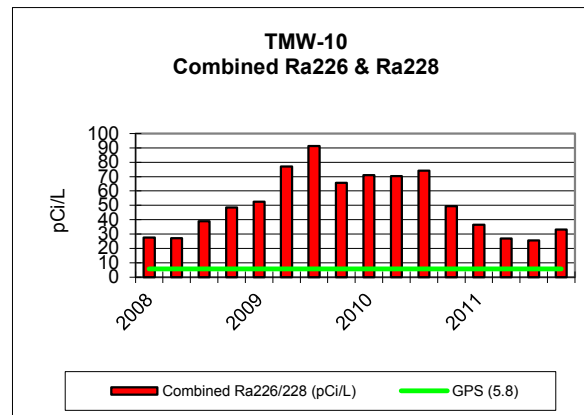
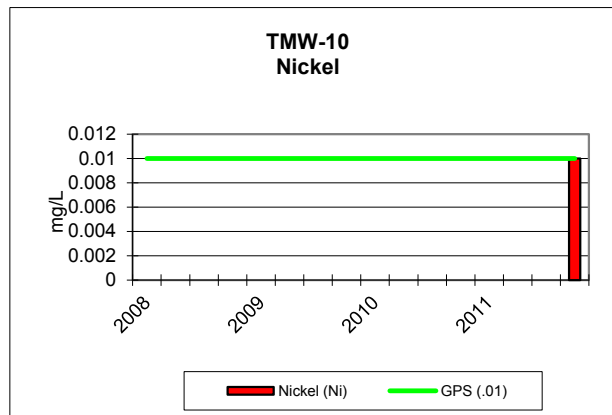
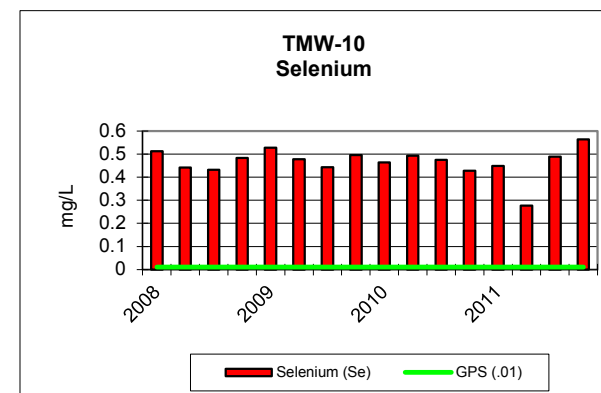
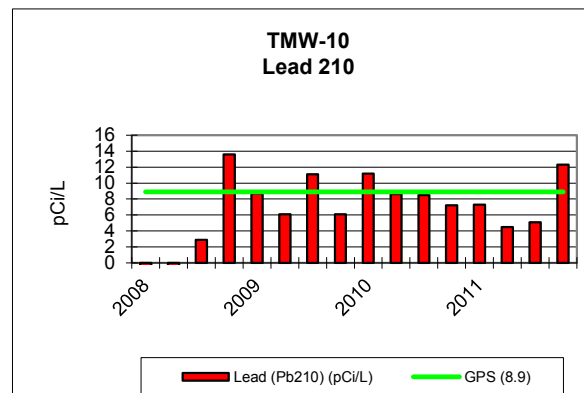
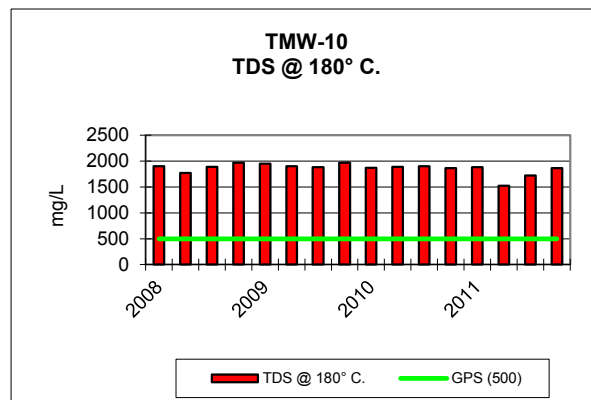
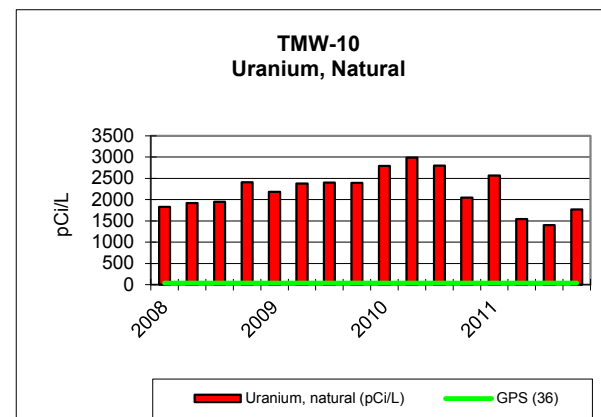
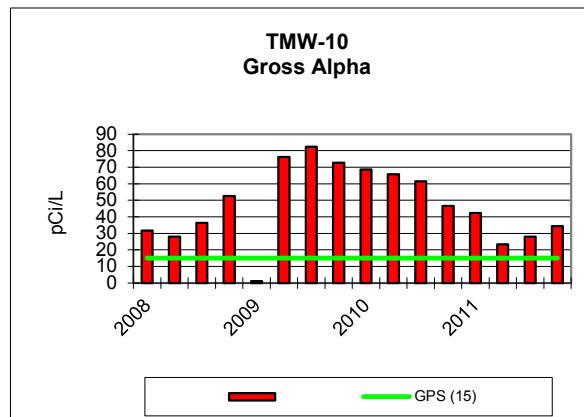
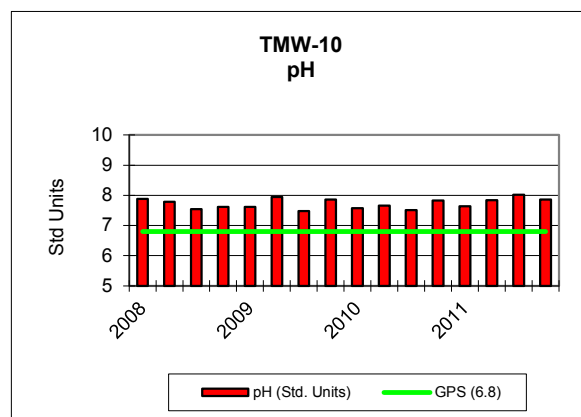
KENNECOTT URANIUM COMPANY																					
TMW-112																					
NORTHING: 148,700.09	Groundwater																				
EASTING: 324,199.95	Protection	2013				2014				2015					2016				2017		
ND = Non-detectable	Standard	1/22/13	4/1/13	7/7/13	10/15/13	1/27/14	4/8/14	8/4/14	11/4/14	1/21/15	5/4/15	7/22/15	12/6/15	2/29/2016	4/13/2016	7/31/2016	10/13/2016	2/22/2017	4/10/2017	7/12/2017	10/17/2017
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																					
TMW-113																					
NORTHING: 148,600.06 EASTING: 324,199.95	Groundwater Protection	2013				2014				2015				2016				2017			
ND = Non-detectable	Standard	1/28/13	4/1/13	7/7/13	10/15/13	2/3/14	4/8/14	8/4/14	11/4/14	1/21/2015	5/4/2015	7/22/2015	12/6/2015	2/29/2016	4/13/2016	7/31/2016	10/13/2016	2/22/2017	4/10/2017	7/12/2017	10/17/2017
	(GPS)																				
	as of 5/26/05																				
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	GPS 3 (2)	0.0013	0.003	0.0018	0.0011	0.0018	ND	ND	ND	ND	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	1.3	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride		0.0013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

KENNECOTT URANIUM COMPANY																					
TMW-115																					
NORTHING: 148,499.96	Groundwater Protection	2013				2014				2015				2016				2016			
EASTING: 324,199.79																					
ND = Non-detectable	Standard	1/28/13	4/1/13	7/7/13	10/15/13	2/3/14	4/7/14	8/4/14	11/3/14	1/21/2015	5/4/2015	7/22/2015	12/6/2015	2/29/2016	4/19/2016	8/1/2016	10/13/2016	2/29/2016	4/19/2016	8/1/2016	10/13/2016
FIELD DATA mg/l:	(GPS)																				
Temperature (C)	as of 5/26/05																				
ORGANICS mg/L:																					
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS mg/L:																					
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(1) - EPA MCL																					
(2) - WY Drinking Water Equivalent Level																					
(3) - WY VRP, Fact Sheet 12																					
(4) - EPA RBC - Tap Water																					
(LAB: Energy Labs Inc. unless noted.)																					

Diesel Excavation Monitor Wells

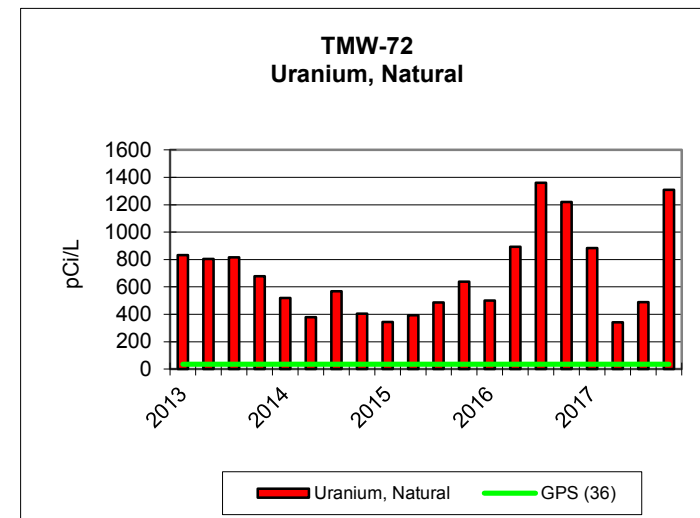
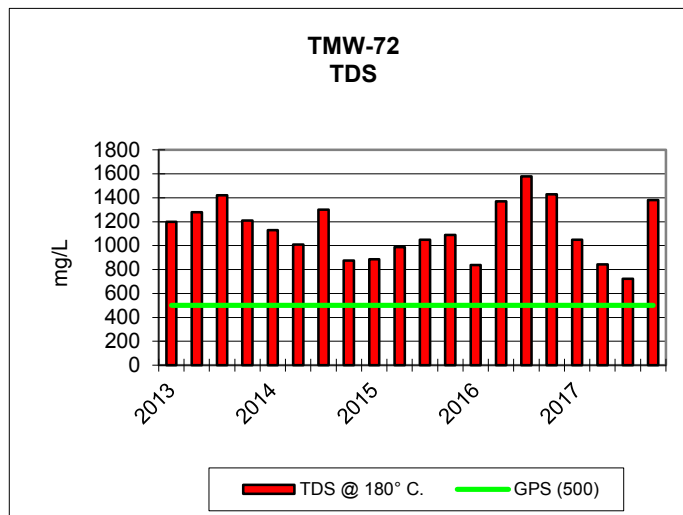
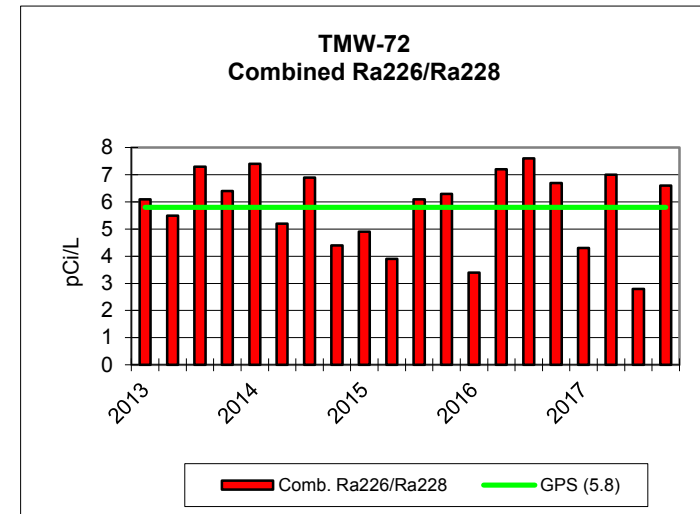
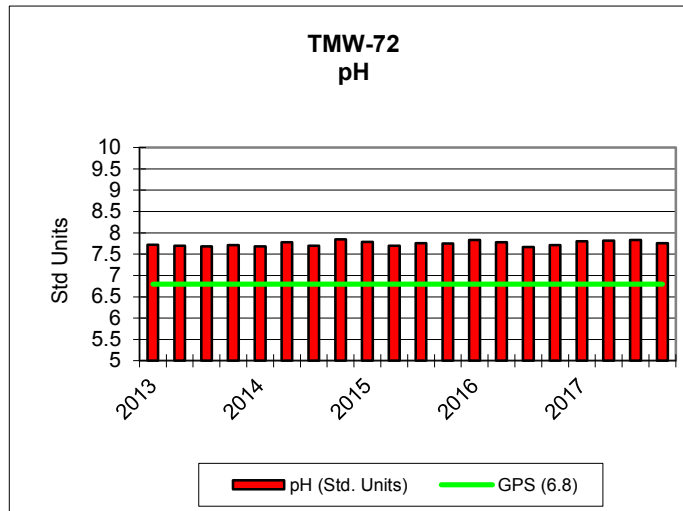
KENNECOTT URANIUM COMPANY		2008				2009				2010				2011					
TMW-10																			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	2/13/2008	4/1/2008	8/11/2008	11/18/2008	1/12/2009	4/7/2009	7/8/2009	10/6/2009	1/18/2010	4/12/2010	7/7/2010	10/4/2010	1/17/2011	4/4/2011	7/11/2011	10/23/2011	No sampling of this well has been done since 2011. It can no longer be safely pumped.	
TDS A/C Balance (dec. %)		2.29	1.43	1.49	0.989	0.493	0.457	-1.83	-2.31	0.952	-3.19	-1.08	-3.97	-1.9	-0.89	-0.142	-0.475		
Alk-CaCO3		103	94	93	96	97	99	96	101	110	115	109	99	103	87	93	91		
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Arsenic (As)	GPS (.05)	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Bicarbonate (HCO3)		126	115	113	117	118	121	117	124	134	141	133	121	125	106	114	111		
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Calcium (Ca)		377	398	413	410	339	377	380	384	400	379	403	352	370	318	343	369		
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chloride (Cl)		129	122	125	115	116	122	116	125	126	125	115	90	113	53	87	98		
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Cobalt (Co)		<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	<0.001		
Cond (umhos/cm)		2320	2220	2260	2340	2320	2320	2270	2290	2270	2250	2230	2110	2170	1790	2000	2170		
Cond-Field (umhos/cm)		2370	1921	2300	2370	1961	1808	2250	2430	2390	2380	2290	2310	2370	1830	2160	2230		
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01		
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Fluoride (F)		<0.1	<0.1	0.1	0.1	0.1	ND	0.1	0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1		
Gross Alpha (pCi/L)	GPS (15)	31.7	27.9	36.4	52.5	1	76.1	82.4	72.7	68.6	65.8	61.4	46.6	42.4	23.3	27.9	34.4		
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05		
Lead (Pb210) (pCi/L)	GPS (8.9)	-1.2	-1.6	2.9	13.6	8.7	6.1	11.1	6.1	11.2	8.6	8.5	7.2	7.3	4.5	5.1	12.3		
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Magnesium (Mg)		41.4	45.2	44.5	44.2	38.7	40.2	39.6	42.5	42.9	40.8	42.7	36.8	39.4	33.9	35.6	38.6		
Manganese (Mn)	GPS (0.2)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	0.01		
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002		
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01		
Nitrogen, Nitrate+Nitrite as N		7.6	6.1	9.1	8.6	8	8.12	8.2	9.8	8.6	8.9	8.2	6.5	7	3.8	7	7.4		
pH (Std. Units)	GPS (6.8)	7.88	7.79	7.54	7.62	7.62	7.94	7.48	7.86	7.57	7.66	7.51	7.83	7.64	7.84	8.02	7.86		
pH (Field) (Std. Units)		7.8	7.5	7.4	7.2	7.3	7.4	7	7.1	6.8	7	7.3	7.4	7.3	7.6	7.4	7.6		
Potassium (K)		5.5	4.8	5.7	5.5	4.6	5.1	5.4	5.6	5.5	4.9	5.5	5.3	5.4	4.9	5.1	5.8		
Combined Ra226/228 (pCi/L)	GPS (5.8)	27.6	27.1	38.9	48.5	52.5	77	91.3	65.7	71.1	70.4	74.2	49.4	36.4	26.8	25.6	33.1		
Radium 226 (pCi/L)		24.2	24.5	36	44	49	72	87	61	68	68	70	45	33	23	22	29		
Radium 228 (pCi/L)		3.4	2.6	2.9	4.5	3.5	5	4.3	4.7	3.1	2.4	4.2	4.4	3.4	3.8	3.6	4.1		
Selenium (Se)	GPS (.01)	0.512	0.442	0.432	0.483	0.527	0.478	0.443	0.496	0.464	0.493	0.475	0.428	0.448	0.277	0.489	0.564		
Silica (SiO2)		7	6	8.3	7.4	7	5.8	8.2	7.7	7.4	6	7.7	7.8	8.3	7.5	7.7	7.7		
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	ND	ND		
Sodium (Na)		86.8	100	93	98	94	94.9	89.8	91.9	98.8	98.7	99.4	86.2	92.5	81.5	80.1	90.4		
TDS @ 180° C.	GPS (500)	1900	1770	1890	1970	1950	1900	1880	1970	1870	1890	1900	1860	1880	1520	1720	1860		
Sulfate (SO4)		1010	1030	1040	1060	878	966	1030	1050	1030	1060	1090	1030	1010	922	912	998		
Temperature (C)		7.3	5.3	13.5	12	8	9	17.4	11.3	8	12.6	18.5	17.2	11.7	7.4	20.8	14.1		
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	ND	ND	ND	ND		
Thorium 230 (pCi/L)		0.1	0.08	0.1	0.1	0	0.06	0.04	0.03	0.08	0.02	0.03	0.04	0.2	0.08	0.03	0.1		
Uranium, natural (pCi/L)	GPS (36)	1830	1920	1950	2410	2180	2380	2400	2390	2790	2990	2800	2050	2570	1540	1400	1770		
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Zinc (ZN)		0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.01	0.02	0.23		



Kennecott Uranium Company Sweetwater Uranium Project		Collected in uncased hole																		
TMW-10				2008			2009					2010				2011				2012
Northing: 149145.59 Easting: 323037.81	Groundwater Protection	08/21/07	09/05/07	02/13/08	08/11/08	11/18/08	01/12/09	04/07/09	07/08/09	10/06/09	01/18/10	04/12/10	07/07/10	10/04/10	01/17/11	04/04/11	07/11/11	10/23/11		
ORGANICS mg/L:																				
Diesel Range Organics (DRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	TMW-10 was found to be "plugged" or blocked by sand in 2012 and could not be pumped/sampled. The well remains blocked.
Gasoline Range Organics (GRO)	GPS 10 (3)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VOLATILE ORGANIC COMPOUNDS mg/L:																				
Chloromethane	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform		0.0011	0.011	ND	0.02	0.019	0.023	0.019	0.018	0.02	0.017	0.019	0.017	0.014	0.02	0.0085	0.012	0.021	0.021	
1,1-Dichloroethane	GPS 3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	GPS 0.007 (1)	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	GPS 1.3 (2)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	GPS 1 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	GPS 0.20 (1)	ND	0.0016	ND	0.003	0.0032	0.0035	0.0035	0.003	0.0033	0.003	0.0035	0.0031	0.0023	0.0031	0.0013	0.0015	0.0028	0.0028	
1,2,4-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	GPS 0.012 (4)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m+p Xylenes	GPS 10 (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
(1) - EPA MCL																				
(2) - WY Drinking Water Equivalent Level																				
(3) - WY VRP, Fact Sheet 12																				
(4) - EPA RBC - Tap Water																				
(LAB: Energy Labs Inc. unless noted.)																				

KENNECOTT URANIUM COMPANY															
TMW-72		2013				2014				2015				2016	
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/22/2013	7/8/2013	10/28/2013	1/18/2014	4/8/2014	7/15/2014	10/21/2014	1/20/2015	4/22/2015	7/22/2015	12/2/2015*	2/3/2016	4/12/2016
TDS A/C Balance (dec. %)		0.0157	-1.79	1.49	0.0235	1.08	4.68	0.02	1.25	0.8	4.03	2.36	3.08	0.76	2.63
Alk-CaCO3		74	70	63	71	73	78	64	94	82	76	75	84	90	61
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		90	86	77	86	89	95	79	115	100	93	91	102	109	74
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		254	262	308	263	238	200	291	197	184	191	236	227	174	302
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride (Cl)		47	54	62	54	49	45	69	40	39	44	47	53	36	67
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1500	1590	1710	1530	1410	1280	1610	1170	1140	1270	1340	1410	1110	1650
Cond-Field (umhos/cm)		1711	1747	1735	1826	1649	1418	996	1546	1146	1245	1012	1758	1873	2040
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.1	0.1	0.1	0.1	<0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	2.7	2.2	3	3.5	2.8	1.6	4	3.3	3.2	8	7.5	8.1	5	12.7
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead (Pb)		<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.6	1.8
Magnesium (Mg)		17.4	17.9	20.7	<1	<1	<1	<1	<1	12.2	12.5	14.9	15.9	11.8	20.5
Manganese (Mn)	GPS (0.2)	<0.02	<0.02	<0.02	0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.72	7.7	7.68	7.71	7.68	7.78	7.7	7.85	7.79	7.7	7.76	7.75	7.83	7.78
pH (Field) (Std. Units)		7.25	7.7	7.9	7.8	7.7	7.7	7.9	7.88	8.24	7.72	7.64	7.8	7.54	7.6
Potassium (K)		3.9	4.1	4.9	4.2	4	3.7	4.8	3.7	3.7	3.7	4.2	4.1	3.6	4.5
Combined Ra226/228 (pCi/L)	GPS (5.8)	6.1	5.5	7.3	6.4	7.4	5.2	6.9	4.4	4.9	3.9	6.1	6.3	3.4	7.2
Radium 226 (pCi/L)		2.5	2.2	2.2	2	2.3	2.9	2.9	1.7	1.9	1.7	2.3	2.7	1.4	3.9
Radium 228 (pCi/L)		3.6	3.3	5.1	4.4	5.1	2.3	4	2.7	3	2.2	3.8	3.6	2	3.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004
Silica (SiO2)		13.2	11.6	11.6	12.8	11.9	12	12.8	12.5	12.7	12.4	12.7	12	12.5	11.6
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		64.9	65	74.7	67.3	61	52	72.9	56.2	54.1	54.7	58.2	63.8	52.3	77.6
TDS @ 180° C.	GPS (500)	1200	1280	1420	1210	1130	1010	1300	876	885	987	1050	1090	839	1370
Sulfate (SO4)		682	730	810	706	613	569	783	484	485	545	581	640	450	763
Temperature (C)		10	9	13.5	9.1	8.9	10	11	9.7	8	10	9.9	7.7	7.6	10.3
Thallium (Tl)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)	GPS (7.0)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	0.6	<0.2	<0.2	0.03	0.1
Uranium, natural (pCi/L)	GPS (36)	832	805	817	679	520	379	569	404	345	393	486	638	501	892
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

KENNECOTT URANIUM COMPANY							
TMW-72				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/25/2016	10/17/2016	1/25/2017	4/5/2017	7/5/2017	10/17/2017
TDS A/C Balance (dec. %)		1.64	1.56	1.5	2.82	1.72	2.2
Alk-CaCO3		55	59	76	83	86	63
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.2	<0.6	<0.10	<0.13
Arsenic (As)	GPS (.05)	<0.001	0.015	1.015	5.015	9.015	12.015
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		67	73	93	101	105	77
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		341	306	196	177	146	297
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		76	69	47	38	29	59
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cond (umhos/cm)		1890	1770	1390	1160	1040	1700
Cond-Field (umhos/cm)		2340	1903	1504	1734	2050	2420
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		0.1	0.1	0.2	0.1	0.1	0.1
Gross Alpha (pCi/L)	GPS (15)	5.1	3.8	4	1.7	2.3	2.8
Iron (Fe)	GPS (0.6)	<0.05	<0.05	ND	ND	ND	ND
Lead (Pb210) (pCi/L)	GPS (8.9)	<1	<1	0.5	1.4	0.4	1.6
Lead (Pb)		1.5	2	<0.05	<0.05	<0.05	<0.05
Magnesium (Mg)		22.7	20.7	13.5	12.2	9.9	20.2
Manganese (Mn)	GPS (0.2)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen, Nitrate+Nitrite as N		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
pH (Std. Units)	GPS (6.8)	7.67	7.71	7.8	7.82	7.83	7.76
pH (Field) (Std. Units)		6.88	7.74	7.14	8.53	7.02	7.42
Potassium (K)		5.1	4.6	3.6	3.8	3.1	4.6
Combined Ra226/228 (pCi/L)	GPS (5.8)	7.6	6.7	4.3	7	2.8	6.6
Radium 226 (pCi/L)		2.7	2	2	1.3	1.4	3.3
Radium 228 (pCi/L)		4.9	4.7	2.3	5.7	1.4	3.3
Selenium (Se)	GPS (.01)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silica (SiO2)		10.4	10.8	11.2	13.2	12.1	11.1
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		78	76.3	54.1	55.6	46.6	71.3
TDS @ 180° C.	GPS (500)	1580	1430	1050	844	722	1380
Sulfate (SO4)		886	836	611	497	386	764
Temperature (C)		16.6	10.1	8.5	8.2	14.4	10.5
Thallium (Tl)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L.)	GPS (7.0)	0.003	0.02	0.07	0.06	0.1	-0.004
Uranium, natural (pCi/L)	GPS (36)	1360	1220	884	342	488	1310
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.02	<0.01	0.03	<0.01	<0.01



TMW-72

Kennecott Uranium Company													
Sweetwater Uranium Project													
Hydrocarbon Analysis Data													
Monitor Well:	TMW-72												
Northing:	149020.470			Top		Bottom							
Easting:	322997.150			Below Surface	Elevation	Below Surface	Elevation						
Elevation:	6640.350		Screen:	90.000	6550.350	114.000	6526.350						
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	2/5/02	3/12/02	5/8/02	5/16/02	6/26/02	7/31/02	8/20/02	9/11/02	10/10/02	11/18/02	12/10/02
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	1.8	1.7	1.5	1.7	2.0	1.9	1.4
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	0.826	0.228	0.199	0.121	0.060	0.051	0.055	0.032	0.023	0.029
Diesel Range Organics			ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)													

[illegible]

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/13/04	2/11/04	3/16/04	4/12/04	5/11/04	6/10/04	7/14/04	8/4/04	9/16/04	10/13/04	11/8/04	12/8/04
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	1.7	ND	1.1	1.3	ND	1.0	1.2	ND	1.2	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

[illegible]

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/10/07	2/14/07	3/5/07	4/3/07	5/1/07	6/3/07	7/17/07	8/1/07	9/5/07	10/1/07	11/7/07	12/5/07
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	1.0	1.3
Chloromethane			ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	1/13/08	2/20/08	3/19/08	4/7/08	5/13/08	6/4/08	7/15/08	8/8/08	9/23/08	10/5/08	11/18/08	12/2/08
Constituent	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	1.1	ND	ND	ND	ND	ND	ND	ND	1.0	ND	1.1	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/12/09	2/4/09	3/7/09	4/7/09	5/12/09	6/15/09	7/8/09	8/14/09	9/14/09	10/6/09	11/8/09	12/1/09
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/18/10	2/3/10	3/9/10	4/12/10	5/19/10	6/7/10	7/7/10	8/16/10	9/7/10	10/4/10	11/8/10	12/1/10
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	1.1	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/17/11	2/21/11	3/7/11	4/4/11	5/10/11	6/19/11	7/11/11	8/8/11	9/20/11	10/23/11	11/7/11	12/5/11
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)														

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/23/12	2/6/12	3/5/12	4/16/12	5/2/12	6/5/12	7/10/12	8/22/12	9/18/12	10/2/12	11/27/12	12/10/12
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)			Methylene chloride (ug/L):			6.0	1.8	2.7	5.7	1.7	1.1	3.2	2.0	4.1

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)												
Constituent			1/21/13	2/4/13	3/18/13	4/22/13	5/20/13	6/12/13	7/8/13	8/13/13	9/10/13	10/28/13	11/11/13	12/16/13
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)			2.0	2.3	1.7	1.2	ND	ND	ND	ND	ND	ND	ND	ND

Kennecott Uranium Company															
Sweetwater Uranium Project															
Hydrocarbon Analysis Data															
Monitor Well:	TMW-72														
Northing:	149020.470														
Easting:	322997.150														
Elevation:	6640.350														
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)													
Constituent			1/18/2014	2/4/2014	3/12/2014	4/8/2014	5/19/2014	5/28/2014	6/3/2014	7/15/2014	8/11/2014	9/16/2014	10/21/2014	11/18/14	12/2/2014
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

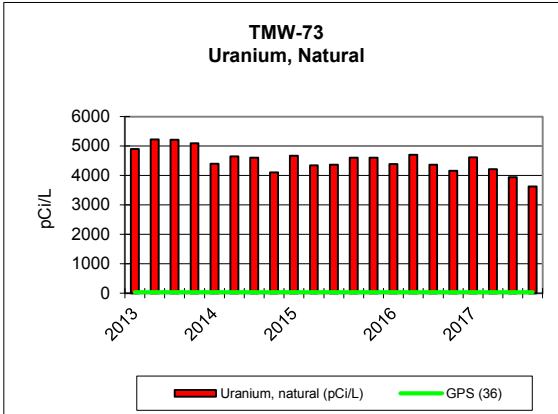
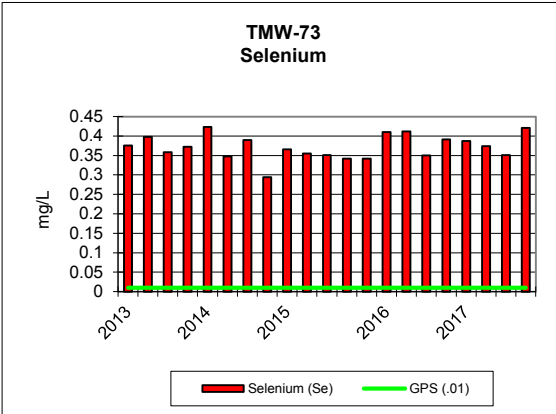
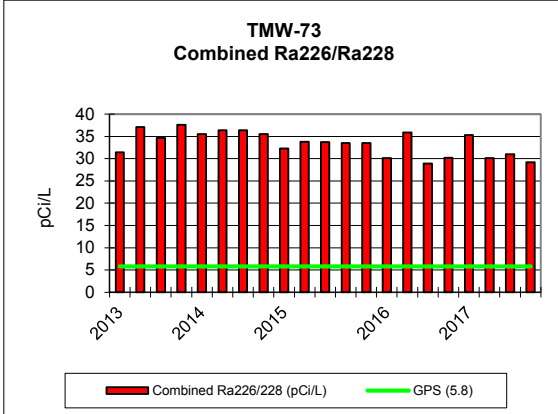
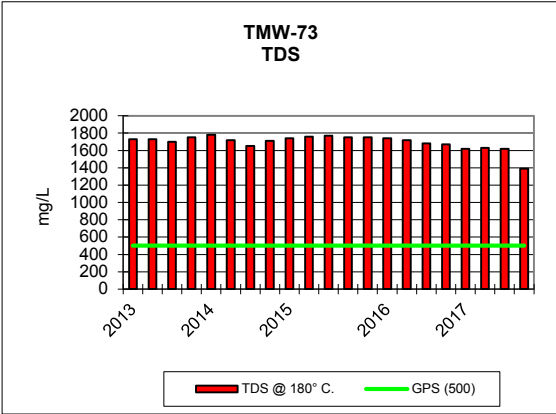
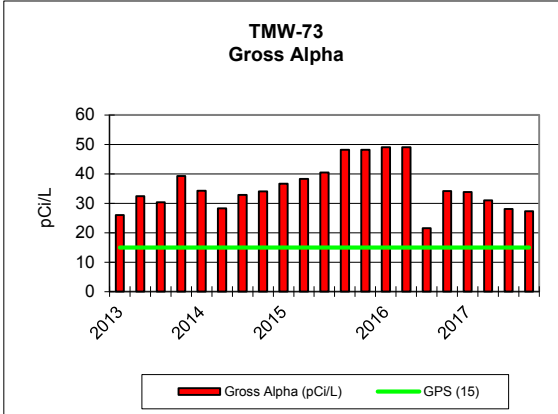
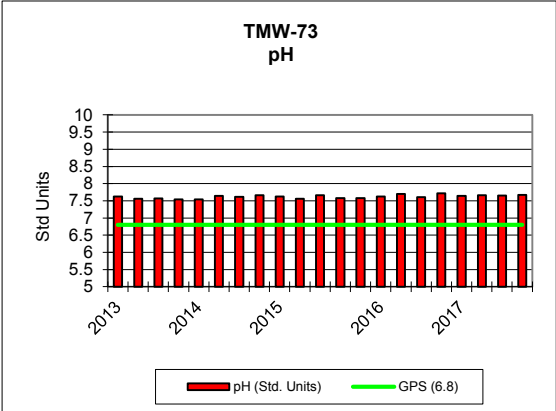
Kennecott Uranium Company													
Sweetwater Uranium Project													
Hydrocarbon Analysis Data													
Monitor Well:	TMW-72												
Northing:	149020.470												
Easting:	322997.150												
Elevation:	6640.350												
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)											
Constituent			1/20/2015	2/3/2015	3/30/2015	4/22/2015	5/13/2015	6/8/2015	7/22/2015	8/11/2015	9/1/2015	12/2/2015*	12/2/2015
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
												*This sample was taken for the Nov monthly sample	

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	2/3/2016*	2/3/2016	3/22/2016	4/12/2016	5/3/2016	6/27/2016	7/25/2016	8/8/2016	9/21/2016	10/17/2016	11/15/2016	12/6/2016
Constituent	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			*This sample was taken for the Jan monthly sample											

Kennecott Uranium Company														
Sweetwater Uranium Project														
Hydrocarbon Analysis Data														
Monitor Well:	TMW-72													
Northing:	149020.470													
Easting:	322997.150													
Elevation:	6640.350													
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	1/25/2017	2/20/2017	3/7/2017	4/5/2017	5/1/2017	6/7/2017	7/5/2017	8/1/2017	9/12/2017	10/17/2017	11/1/2017	12/13/2017
Constituent	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics			ND	ND		ND			ND	ND		ND		ND
Methylene chloride (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

KENNECOTT URANIUM COMPANY		2013				2014				2015				2016			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	1/21/2013	4/22/2013	7/8/2013	10/28/2013	1/18/2014	4/8/2014	7/15/2014	10/21/2014	1/20/2015	4/28/2015	7/22/2015	12/2/2015*	12/2/2015	2/3/2016	4/12/2016	
TDS A/C Balance (dec. %)		1.48	0.513	0.674	2.11	0.106	2.75	0.35	0.86	0.57	1.14		0.17	0.17	3.3	2.55	
Alk-CaCO3		96	102	101	101	101	101	101	102	101	99	103	103	103	109	115	
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Arsenic (As)	GPS (.05)	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.013	
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Bicarbonate (HCO3)		118	124	124	123	124	124	123	125	123	120	125	126	126	133	141	
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Calcium (Ca)		367	354	348	369	343	330	337	342	353	357	366	352	352	362	360	
Carbonate (CO3)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloride (Cl)		97	97	95	99	97	95	100	102	100	98	100	102	102	96	95	
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cobalt (Co)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	1.001	<0.001	<0.001	
Cond (umhos/cm)		2080	2100	2060	2080	2080	2030	2020	2090	2030	2110	2140	2090	2090	2070	2050	
Cond-Field (umhos/cm)		2100	2220	2170	2190	2250	2160	1684	2170	2160	2050	1877	2290	2290	2050	2340	
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Fluoride (F)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Gross Alpha (pCi/L)	GPS (15)	26	32.4	30.3	39.3	34.3	28.3	32.8	34	36.7	38.3	40.5	48.2	48.2	49	49	
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Lead (Pb210) (pCi/L)	GPS (8.9)	3.8	8.3	8.2	4.6	6.5	9.2	5.1	9.5	6.1	6.6	6.1	9.5	9.5	<0.01	<0.01	
Lead (Pb)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	13	5.2	
Magnesium (Mg)		39.9	37.9	38.1	41	38.4	35	40.9	37.2	37.4	37.9	37.6	39.4	39.4	38.5	39.2	
Manganese (Mn)	GPS (0.2)	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nitrogen, Nitrate+Nitrite as N		5.4	6	6	6.2	6.5	5.1	6	6.4	6.5	5.5	6.4	6.5	6.5	7.2	7.7	
pH (Std. Units)	GPS (6.8)	7.63	7.56	7.57	7.54	7.54	7.64	7.62	7.66	7.63	7.56	7.66	7.58	7.58	7.63	7.7	
pH (Field) (Std. Units)		7.23	6.6	7.5	7.7	7.6	7.5	7.3	7.68	7.98	7.56	7.33	7.6	7.6	7.15	7.42	
Potassium (K)		5.5	5.1	5.5	5.3	5	4.8	5.3	5.2	5.3	5.2	5.7	5.4	5.4	5.7	5.1	
Combined Ra226/228 (pCi/L)	GPS (5.8)	31.4	37.1	34.7	37.6	35.5	36.4	36.4	35.5	32.3	33.8	33.7	33.5	33.5	30.1	35.9	
Radium 226 (pCi/L)		25	31	28	30	29	32	28	29	26	28	26	29	29	24	27	
Radium 228 (pCi/L)		6.4	6.1	6.7	7.6	6.5	4.4	8.4	6.5	6.3	5.8	7.7	4.5	4.5	6.1	8.9	
Selenium (Se)	GPS (.01)	0.376	0.398	0.358	0.372	0.423	0.348	0.39	0.294	0.366	0.355	0.351	0.342	0.342	0.41	0.412	
Silica (SiO2)		6.3	6.3	6.3	6.9	6.1	4.9	6.9	6	6	6.1	6.3	6	6	6.3	6.5	
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Sodium (Na)		99.5	96.3	102	104	98.3	88.9	105	99.5	100	100	98.4	105	105	106	111	
TDS @ 180° C.	GPS (500)	1730	1730	1700	1750	1780	1720	1650	1710	1740	1760	1770	1750	1750	1740	1720	
Sulfate (SO4)		973	946	942	966	935	938	953	946	943	949	952	961	961	914	927	
Temperature (C)		9.4	10.4	14.3	9.9	9.7	11.1	10.7	10.3	8.7	9	9.2	7.5	7.5	8	10.2	
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Thorium 230 (pCi/L)		0.05	0.2	0.02	0.3	0.1	0.2	0.1	0.07	0.1	0.1	0.06	0.07	0.07	0.01	0.1	
Uranium, natural (pCi/L)	GPS (36)	4900	5220	5210	5090	4400	4650	4600	4100	4670	4340	4360	4600	4600	4390	4700	
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Zinc (ZN)		<0.01	0.02	0.03	0.02	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

KENNECOTT URANIUM COMPANY							
TMW-73				2017			
PARAMETER (mg/L unless noted)	Groundwater Protection Standard (GPS) as of 5/26/05	7/25/2016	10/17/2016	1/25/2017	4/5/2017	7/5/2017	10/17/2017
TDS A/C Balance (dec. %)		0.39	0.95	4.74	2.57	1.58	1.16
Alk-CaCO3		109	105	105	105	102	105
Aluminum (Al)	GPS (1.8)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic (As)	GPS (.05)	0.014	<0.001	<0.001	<0.001	<0.001	<0.001
Barium (Ba)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beryllium (Be)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bicarbonate (HCO3)		133	129	128	128	125	128
Boron (B)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium (Cd)	GPS (.01)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium (Ca)		323	322	290	336	318	259
Carbonate (CO3)		<1	<1	<1	<1	<1	<1
Chloride (Cl)		91	89	89	94	78	66
Chromium (Cr)	GPS (.05)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt (Co)		<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Cond (umhos/cm)		2030	2060	2070	2060	2080	1760
Cond-Field (umhos/cm)		2400	2250	2210	2170	2150	1782
Copper (Cu)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide (CN)		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoride (F)		<0.1	<0.1	0.1	<0.1	<0.1	<0.1
Gross Alpha (pCi/L)	GPS (15)	21.5	34.2	33.8	31	28.1	27.3
Iron (Fe)	GPS (0.6)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (Pb210) (pCi/L)	GPS (8.9)	<0.01	<0.01	9.7	12.5	10.6	10.9
Lead (Pb)		4.8	4	<0.01	<0.01	<0.01	<0.01
Magnesium (Mg)		34.6	36.4	31.1	36.8	34.3	28.5
Manganese (Mn)	GPS (0.2)	0.01	<0.01	<0.01	0.01	0.01	<0.01
Mercury (Hg)		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Molybdenum (Mo)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	GPS (.01)	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Nitrogen, Nitrate+Nitrite as N		7	6.4	6.2	6.1	5	5.2
pH (Std. Units)	GPS (6.8)	7.61	7.72	7.64	7.66	7.65	7.67
pH (Field) (Std. Units)		7.16	7.57	7.06	7.94	7.28	7.56
Potassium (K)		5.2	5.4	5	5.7	5.7	4.4
Combined Ra226/228 (pCi/L)	GPS (5.8)	28.9	30.2	35.3	30.1	31	29.2
Radium 226 (pCi/L)		20	24	28	24	25.7	25.6
Radium 228 (pCi/L)		8.9	6.2	7.3	6.1	5.3	3.6
Selenium (Se)	GPS (.01)	0.35	0.391	0.387	0.374	0.351	0.421
Silica (SiO2)		6.5	10.8	6.2	6.7	6	5.7
Silver (Ag)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium (Na)		93.6	99.2	87.3	104	99.1	80.8
TDS @ 180° C.	GPS (500)	1680	1670	1620	1630	1620	1390
Sulfate (SO4)		872	905	913	987	857	723
Temperature (C)		16	10.1	8.5	8.2	10.8	10
Thallium (Tl)	GPS (7.0)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thorium 230 (pCi/L)		0.02	0.03	0.1	0.09	0.1	0.08
Uranium, natural (pCi/L)	GPS (36)	4360	4160	4610	4210	3940	3630
Vanadium (V205)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc (ZN)		<0.01	0.08	<0.01	0.02	<0.01	<0.01



Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	5/14/03	6/4/03	7/14/03	8/5/03	9/17/03	10/22/03	11/11/03	12/9/03	1/12/04	2/11/04	3/16/04	4/12/04	5/11/04	6/10/04
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		2.6	2.5	2.4	2.9	2.4	2.2	2.0	2.3	2.4	1.5	2.2	2.5	2.2	2.5
1,1-Dichloroethene	7			1.6	1.7	1.5	1.7	1.9	1.4	1.5	1.7	1.4	1.8	1.6	1.7	1.5	1.9
1,1,1-Trichloroethane	200			3.8	4.0	3.2	3.8	3.8	2.5	2.9	3.5	3.2	2.7	3.7	3.3	3.5	4.2
Chloroform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	7/14/04	8/4/04	9/16/04	10/13/04	11/8/04	12/8/04	1/19/05	2/9/05	3/8/05	4/12/05	5/10/05	6/9/05	7/19/05	8/9/05
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		2.0	2.2	2.4	1.8	2.3	2.1	2.1	2.6	2.2	1.8	2.0	2.1	2.1	1.9
1,1-Dichloroethene	7			1.3	1.5	1.5	1.8	1.7	1.6	1.5	1.8	1.7	1.5	1.5	1.5	1.4	1.3
1,1,1-Trichloroethane	200			2.9	3.7	3.7	3.7	4.2	3.7	3.4	3.6	3.6	3.4	3.5	3.8	3.6	4.0
Chloroform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			120	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	9/22/05	10/25/05	11/29/05	12/12/05	1/11/06	2/2/06	3/1/06	4/6/06	5/2/06	6/5/06	7/25/06	8/15/06	9/5/06	10/2/06
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		2.0	2.1	2.1	1.9	1.9	1.8	2.0	2.0	2.0	1.9	2.1	1.8	1.9	1.8
1,1-Dichloroethene	7			1.6	1.4	1.4	1.3	1.6	1.5	1.5	1.4	1.5	1.5	1.6	1.5	1.6	1.4
1,1,1-Trichloroethane	200			3.7	3.2	3.7	3.6	3.6	3.5	3.7	3.5	3.3	3.3	3.6	2.8	3.1	2.8
Chloroform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			120	ND	ND	11	11	3.4	1.4	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	11/8/06	12/13/06	1/10/07	2/14/07	3/5/07	4/3/07	5/1/07	6/3/07	7/17/07	8/1/07	9/5/07	10/1/07	11/7/07	12/5/07
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		1.8	1.9	1.7	2.1	1.6	1.7	1.8	1.9	2.3	1.2	1.7	ND	1.7	2.3
1,1-Dichloroethene	7			1.3	1.5	1.6	1.7	1.7	1.7	1.4	1.6	2.1	1.4	1.4	2.3	1.1	1.9
1,1,1-Trichloroethane	200			3.0	3.1	3.4	3.6	3.0	3.4	3.0	3.3	4.0	3.0	3.3	2.8	2.3	4.4
Chloroform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	1.1	ND	ND	ND	1.0	1.2	ND	ND	1.1	ND	ND	1.0
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.310	ND	ND
Diesel Range Organics				ND	ND	ND	2.700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	1/13/08	2/20/08	3/19/08	4/7/08	5/13/08	6/4/08	7/15/08	8/12/08	9/23/08	10/5/08	11/18/08	12/2/08	1/12/09	2/4/09
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		2	2.1	2.1	1.8	1.5	1.1	1.4	1.7	1.6	1.3	1.5	ND	ND	1.8
1,1-Dichloroethene	7			1.3	1.7	1.5	1.1	1.3	1	1.2	1.2	1.2	ND	1.3	ND	1.3	1.2
1,1,1-Trichloroethane	200			3.4	4.1	3	3	3.3	2.9	3.4	3.2	3.9	3.5	3.5	ND	3.1	3.1
Chloroform				ND	ND	ND	ND	ND	ND	ND	2.5	3.4	2.9	3.6	3.5	3.6	3.6
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	ND
Tetrachloroethene	5			ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	1.0	ND
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	3/7/09	4/7/09	5/12/09	6/15/09	7/8/09	8/12/09	9/14/09	10/6/09	11/8/09	12/1/09	1/18/10	2/3/10	3/9/10	4/12/10
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		1.5	1.4	1.3	1.6	1.5	1.5	1.3	1.3	1.3	1.1	ND	ND	1.3	1.2
1,1-Dichloroethene	7			1.3	1.2	1.1	ND	1.1	1.0	1.0	1.0	1.2	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200			3.7	3.3	3.1	2.5	3.0	2.6	3.0	3.0	3.5	2.5	2.4	2.7	2.6	3.0
Chloroform				4.2	4.0	4.1	3.9	5.0	5.0	5.7	6.3	6.0	4.8	4.1	4.2	4.9	5.3
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			1.4	1.0	1.1	1.1	ND	ND	1.1	1.1	ND	ND	1.2	1.4	ND	1.3
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	5/19/10	6/7/10	7/7/10	8/16/10	9/7/10	10/4/10	11/8/10	12/1/10	1/17/11	2/21/11	3/7/11	4/4/11	5/10/11	6/19/11
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		1.2	1.1	1.2	1.4	1.3	1.2	1.1	1.2	1.1	ND	1.0	ND	1.2	ND
1,1-Dichloroethene	7			ND	ND	1.0	1.0	ND	ND	ND	1.0	1.1	1.1	ND	ND	ND	ND
1,1,1-Trichloroethane	200			3.1	3.1	3.1	3.3	3.1	3.1	2.8	2.9	3.2	3.5	2.6	2.8	3.2	2.3
Chloroform				5.0	5.1	5.3	5.9	5.6	6.4	5.4	5.6	4.7	4.6	3.7	4.1	4.5	3.8
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			1.0	1.1	1.2	1.4	1.2	1.2	1.1	1.4	1.1	1.4	1.2	1.2	1.5	1.2
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)																	

Sweetwater Uranium Project																	
Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)														
Constituent				7/11/11	8/8/11	9/20/11	10/23/11	11/7/11	12/5/11	1/23/12	2/6/12	3/5/12	4/16/12	5/2/12	6/5/12	7/10/12	8/22/12
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		ND	1.1	ND	1.4	1.2	ND	ND	ND	ND	ND	1.1	ND	ND	ND
1,1-Dichloroethene	7			ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200			2.4	2.9	2.2	4.2	2.1	3.1	2.0	2.5	1.9	2.2	2.7	ND	1.8	2.3
Chloroform				4.2	5.2	3.8	6.8	3.2	5.0	3.8	4.3	3.5	4.0	4.8	ND	3.7	4.6
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			1.3	1.4	1.2	1.4	1.4	1.4	ND	1.1	ND	1.1	1.1	ND	ND	1.1
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)										Methylene chloride (ug/L)			12.0	5.7	1.3	9.7	4.4

Sweetwater Uranium Project Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)														
Constituent				9/18/12	10/2/12	11/27/12	12/10/12	1/21/13	2/4/13	3/18/13	4/22/13	5/20/13	6/12/13	7/8/13	8/13/13	9/10/13	10/28/13
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		1.0	ND	ND	1.8	ND	ND	ND	1.2	ND	ND	ND	1.0	ND	ND
1,1-Dichloroethene	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND
1,1,1-Trichloroethane	200			2.1	2.2	2.5	2.5	2.0	ND	2.1	2.2	ND	2.0	2.3	2.1	2.3	2.2
Chloroform				3.9	4.4	4.6	4.0	3.2	3.0	3.0	3.3	1.4	2.9	3.1	3.0	2.8	3.2
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			1.1	ND	ND	ND	ND	ND	ND	1.1	ND	ND	1.1	ND	ND	1.0
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)				1.9	2.6	2.1	1.9	1.4	1.4	1.4	2.5	4.8	1.1	1.4	ND	ND	ND

Sweetwater Uranium Project Hydrocarbon Analysis Data																	
Monitor Well:	TMW-73																
Northing:	149055.70																
Easting:	322896.82																
Elevation:	6643.31																
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	11/11/13	12/16/13	1/18/2014	2/4/2014	3/12/2014	4/8/2014	5/19/2014	5/28/2014	6/3/2014	7/15/2014	8/11/2014	9/16/2014	10/21/2014	11/18/2014
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	microgram s per liter	microgram s per liter	microgram s per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND
1,1-Dichloroethene	7			ND	ND	1.8	1	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND
1,1,1-Trichloroethane	200			2.5	2.2	3.2	2.8	2.7	2.6	2.3	2.3	2.3	2.2	2.6	2.8	2.5	2.1
Chloroform				3.2	2.9	3.4	3.8	3.2	3.2	ND	ND	2.5	2.5	2.5	2.3	2.6	2.2
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	1
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sweetwater Uranium Project Hydrocarbon Analysis Data															
Monitor Well:	TMW-73														
Northing:	149055.70														
Easting:	322896.82														
Elevation:	6643.31														
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	12/2/2014	1/20/2015	2/3/2015	3/30/2015	4/28/2015	5/13/2015	6/8/2015	7/22/2015	8/11/2015	9/1/2015	12/2/2015	12/2/2015
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	microgram s per liter
1,1-Dichloroethane		3000		ND	1	1.4	ND	1	1.6	1.6	1.5	1.3	ND	1.2	1.2
1,1-Dichloroethene	7			ND	ND	1.2	ND	1.1	1.3	1.1	1.5	1.2	ND	ND	ND
1,1,1-Trichloroethane	200			1.9	2	2.6	2.2	2.1	2.2	2.4	3	2.4	1.9	2.5	2.5
Chloroform				2.2	1.9	2.4	2.2	2.2	2.2	2.6	2.9	2.2	1.5	1.9	1.9
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	ND	1.1	1	ND	ND	ND	ND	1.2	1.5	1.5
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
														*This sample was taken for the Nov monthly sample	

Sweetwater Uranium Project Hydrocarbon Analysis Data														
Monitor Well:	TMW-73													
Northing:	149055.70													
Easting:	322896.82													
Elevation:	6643.31													
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	2/3/2016	3/22/2016	4/12/2016	5/3/2016	6/27/2016	7/25/2016	8/8/2016	9/21/2016	10/17/2016	11/15/2016	12/6/2016
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		1.2	2	1.6	1.4	1.2	ND	1.2	1	1.1	ND	ND
1,1-Dichloroethene	7			ND	2.3	1.4	1.2	1	ND	1	ND	ND	ND	ND
1,1,1-Trichloroethane	200			2.3	4.5	3.3	2.7	ND	2.1	2.3	1.7	2	1.2	1.6
Chloroform				2.3	4.5	3.3	2.7	ND	2.1	2.3	1.7	2	1.2	1.6
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			1	1.3	1	ND	1.1	ND	1	ND	ND	ND	ND
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				*This sample was taken for the Jan monthly sample										

Sweetwater Uranium Project															
Hydrocarbon Analysis Data															
Monitor Well:	TMW-73														
Northing:	149055.70														
Easting:	322896.82														
Elevation:	6643.31														
Constituent	Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for Drinking Water	WDEQ Drinking Water Equivalent Level (DWEL)	Calculated Drinking Water Equivalent Level (DWEL)	1/25/2017	2/20/2017	3/7/2017	4/5/2017	5/1/2017	6/7/2017	7/5/2017	8/1/2017	9/12/2017	10/17/2017	11/1/2017	12/13/2017
	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter	micrograms per liter
1,1-Dichloroethane		3000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	7			ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200			1.4	1.4	1.8	1.7	2	2	1.7	1.7	1.9	1.4	ND	1.1
Chloroform				1.5	1.7	1.5	2.1	2.3	2.3	1.6	1.6	1.4	ND	1.1	1.1
Chloromethane			120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5			ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	1.1
m+p-Xylenes	10000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter	milligrams per liter
Gasoline Range Organics				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics				ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (ug/L)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Characterization Plan
Wells and Borehole Soil Data

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Mill Area Characterization (MAC) Wells

Borehole/Well ID		MAC-1	MAC-1	MAC-2	MAC-2	MAC-3	MAC-3	MAC-4	MAC-4	MAC-5	MAC-5	MAC-6	MAC-6	MAC-7	MAC-7
Collection Date		12/7/2017	12/7/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/29/2017	11/29/2017	12/19/2017	12/19/2017	11/30/2017	11/30/2017	12/2/2017	12/2/2017
Lab ID #		L41690-03	L41690-04	L41367-05	L41367-06	L41367-07	L41367-08	L41546-01	L41546-02	L41929-01	L41929-02	L41546-03	L41546-04	L41690-01	L41690-02
Depth to Soil Interval		109-112	117-120	96-106	125-135	95-105	125-135	81-83	95-98	90-95	100-105	81-83	125-127	90-95	100-105
	Units														
ANALYTE															
Aluminum (1312)	mg/L	0.29	0.08	0.19	0.2	0.97	0.22	0.09	0.09	0.22	0.23	0.13	0.26	0.15	0.29
Aluminum, total (3050)	mg/Kg	5010	6190	4250	10300	16500	4560	22700	17900	4500	6590	9240	4530	13900	5840
Arsenic (1312)	mg/L	0.0019	0.003	ND	0.0006	0.0004	0.0008	0.0005	0.002	0.0006	0.003	0.0005	0.0074	0.0006	0.0018
Arsenic, total (3050)	mg/Kg	1	1.1	1.2	1.2	1.9	1	2.7	1.8	0.4	0.9	1.6	2.5	1.4	1.3
Barium (1312)	mg/L	0.006	0.005	0.003	0.005	0.007	0.005	ND	ND	ND	ND	ND	ND	0.005	0.005
Barium, total (3050)	mg/Kg	18	16.7	13.4	22.9	37.1	17.3	39.8	23.7	19.5	18.2	50.8	22.6	32.2	28.9
Beryllium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium, total (3050)	mg/Kg	0.24	0.28	0.21	0.52	0.88	0.19	1.29	0.81	0.2	0.35	0.52	0.19	0.6	0.28
Boron (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND
Boron, total (3050)	mg/Kg	ND	ND	2	ND	2	1	2	ND	ND	1	1	ND	ND	ND
Cadmium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium, total (3050)	mg/Kg	0.1	0.1	ND	0.09	0.18	0.05	0.33	0.22	ND	ND	0.16	0.13	0.21	0.1
Calcium (1312)	mg/L	4.6	6.4	4.7	6.2	9.5	6.2	5.7	6.1	4.5	7.4	0.9	4.9	3.1	6.2
Calcium, total (3050)	mg/Kg	1760	2990	1370	2140	5450	1730	6790	16100	1580	8670	2280	1500	3070	3310
Chromium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, total (3050)	mg/Kg	10	7	15	30	27	11	23	35	8	14	9	8	26	16
Cobalt (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, total (3050)	mg/Kg	8	11	10	7	9	10	8	10	11	11	6	17	7	8
Copper (1312)	mg/L	0.01	0.01	ND	ND	ND	ND	ND	ND	0.25	ND	ND	ND	0.01	0.01
Copper, total (3050)	mg/Kg	3	3	108	9	1260	29	14	16	2	3	5	1	9	1
Iron (1312)	mg/L	ND	ND	0.02	ND	0.73	ND	ND	ND	0.05	0.04	0.07	0.09	0.04	ND
Iron, total (3050)	mg/Kg	4430	4980	5260	13300	17700	5100	25100	21600	4270	6340	9290	3850	13800	5780
Lead (1312)	mg/L	ND	ND	ND	0.0002	0.001	ND	ND	ND	ND	0.0001	0.0002	0.0004	ND	0.0003
Lead, total (3050)	mg/Kg	8.07	9.71	7.49	16.7	27.9	7.81	52	26.4	7.59	8.58	16.9	13.2	16.1	7.88
Magnesium (1312)	mg/L	ND	0.3	0.6	0.3	0.7	0.3	0.4	ND	ND	0.4	ND	ND	ND	0.2
Magnesium, total (3050)	mg/Kg	1420	1650	1360	3710	3580	1270	5890	7350	1120	1910	2350	1250	4480	1660
Manganese (1312)	mg/L	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese, total (3050)	mg/Kg	33.9	39	39.7	74.9	99.1	41.4	114	254	27.1	75.9	49.2	30.2	83.4	47.4
Molybdenum (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum, total (3050)	mg/Kg	ND	ND	ND	3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, total (3050)	mg/Kg	5.2	5.2	6.5	9.7	166	8.4	17.6	20.9	4.4	6.3	5.9	4.8	13.8	5.8
Potassium (1312)	mg/L	1.6	1.7	1.3	1.6	2.6	1.5	1.5	1.8	1	1.6	1	1	1.6	2.1
Potassium, total (3050)	mg/Kg	920	1010	690	1340	1090	810	1470	2080	890	1130	910	1040	1610	980
Selenium (1312)	mg/L	0.0007	0.004	ND	0.0004	0.0023	0.0003	0.0107	0.0008	ND	0.0055	0.0017	0.0009	0.0013	0.0004
Selenium, total (3050)	mg/Kg	0.25	0.29	0.13	0.18	0.47	0.14	1.25	0.4	0.07	0.21	1.35	0.55	0.3	0.24
Silica (1312)	mg/L	4.8	5	5.5	3.8	9	4.5	5.4	3.9	6.5	5	6.1	4.6	4.9	4.6
Silica, recoverable (3050)	mg/Kg	1950	1970	2770	4030	4520	2820	4610	4350	2810	2640	3990	2490	2210	1590
Silver (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium (1312)	mg/L	1.6	1.9	1.7	1.7	5	1.7	3.2	2.6	1.3	2.4	1.4	1.3	2.4	2.5
Sodium, total (3050)	mg/Kg	280	270	190	160	170	230	140	180	320	300	170	430	160	300
Thallium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium, total (3050)	mg/Kg	0.08	0.1	0.07	0.22	0.32	0.08	0.56	0.37	0.06	0.1	0.19	0.07	0.25	0.09
Uranium (1312)	mg/L	0.0012	0.0018	0.0004	0.0015	0.009	0.0015	0.0656	0.0002	0.0004	0.0245	0.0011	0.0007	0.0003	0.0016
Uranium, total (3050)	mg/Kg	7.08	6.97	1.86	2.82	14.6	5.48	45.1	4.76	2.27	13	22.6	5.55	13.7	3.19
Vanadium (1312)	mg/L	ND	ND	ND	ND	0.007	ND	ND	0.006	0.007	ND	ND	ND	0.006	ND
Vanadium, total (3050)	mg/Kg	11.1	10.2	9.8	16.4	17.6	8.5	30.1	33.7	10.2	12.9	16.1	11.1	24.5	11.8
Zinc (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
Zinc, total (3050)	mg/Kg	10	10	10	24	32	11	39	39	8	13	16	9	25	11
Lead 210 (1312)	pCi/L	8.5	11	1.7	ND	ND	1.2	4.2	5.6	1.5	ND	5	0.97	7.6	13
Lead 210 (3050)	pCi/g	2.3	3.6	2.7	2.2	2.9	2.4	8.4	3.1	5.5	7	19	3.8	3.6	4
Radium 226 (1312)	pCi/L	0.56	0.93	0.13	0.88	0.45	0.17	0.23	0.24	4.4	0.53	0.83	0.68	1.7	0.35
Radium 226 (3050)	pCi/g	1.3	1.1	0.55	0.75	1.7	1.1	6.7	1.9	1	1.7	12	1.6	2.2	0.99
Thorium 228	pCi/L	0.3	0.61	0.04	0.12	ND	ND	ND	0.13	0.13	0.13	0.4	0.2	0.19	0.23
Thorium 230	pCi/L	ND	ND	0.1	ND	0.5	ND	0.19	1.1	0.75	0.73	2.3	1.8	0.91	0.68
Thorium 230 (3050)	pCi/g	0.45	1.3	0.77	0.6	1.6	1.4	3.8	ND	0.9	2.2	13	0.8	1.2	0.91
Thorium 232	pCi/L	ND	ND	0.15	ND	ND	ND	ND	ND	0.28	0	0.05	ND	0.14	0.37
Carbon, total organic (TOC)	%	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.4	ND	ND	ND	ND
pH	units	9.5	9.4	9.4	9.4	9.2	9.4	9.2	9.3	9.1	9.3	9.1	8.9	9.1	9.3
pH measured at	C	19.8	19.8	21.2	21.2	21.1	21.1	20.4	20.4	20.5	20.4	20.6	19.9	20	19.8
Solids, Percent	%	96.4	90.4	97.7	82	93.2	92.6	90.4	89.9	96.2	90.4	93.5	87.1	89.6	87.9
Bicarbonate as CaCO3	mg/L	24.2	21.7	15.1	14.6	22.8	14.6	36.8	20.3	13.9	17.9	6.4	11.9	20.5	15.3
Carbon, total organic (TOC)	mg/L	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonate as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloride (1312 DI)	mg/L	0.9	1.2	ND	0.8	0.9	ND	0.8	0.9	ND	0.9	0.7	1.6	0.7	1.4
Conductivity @25C (1312)	umhos/cm	36.9	49.1	42.5	50.4	87.8	47.9	50.1	50.8	35.8	64.3	15.1	36.8	31.6	50.3
Fluoride (1312 DI)	mg/L	ND	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	ND
Hydroxide as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residue, Filterable (TDS) @180C	mg/L	24	34	26	22	64	28	30	24	24	34	12	20	24	36
Sulfate (1312 DI)	mg/L	ND	2.4	4	3.2	12	4.9	1.4	2.5	ND	5.6	ND	1.4	1.1	2.1
Total Alkalinity	mg/L	24.2	21.7	15.1	14.6	22.8	14.6	36.8	20.3	14.4	17.9	6.4	11.9	20.5	15.3

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Downgradient Area Characterization (DAC) Wells

Borehole/Well ID		DAC-1	DAC-1	DAC-2	DAC-2	DAC-3	DAC-3	DAC-4	DAC-4	DAC-4	DAC-5	DAC-5	DAC-6	DAC-6	DAC-7	DAC-7
Collection Date		12/15/2017	12/15/2017	12/12/2017	12/12/2017	11/17/2017	1/17/2017	12/14/2017	12/14/2017	12/14/2017	11/15/2017	11/15/2017	12/17/2017	12/17/2017	11/15/2017	11/15/2017
Lab ID #		L41882-01	L41882-02	L41851-04	L41851-05	L41367-09	L41367-10	L41851-01	L41851-02	L41851-03	L41367-01	L41367-02	L41882-03	L41882-04	L41367-03	L41367-04
Depth to Soil Interval		80-85	85-90	70-75	84-89	96-98	110-112	67-72	72-74	87-93	65-70	80-85	95-100	104-109	62-67	70-75
	Units															
ANALYTE																
Aluminum (1312)	mg/L	0.26	0.21	0.18	0.38	0.52	0.1	0.23	0.16	0.3	0.5	0.44	0.09	0.04	0.2	0.25
Aluminum, total (3050)	mg/Kg	3760	4930	5040	4940	6320	33600	5410	5940	6700	4440	5100	23200	6180	4920	3470
Arsenic (1312)	mg/L	0.0008	0.0004	0.0008	0.0004	0.0004	0.0019	0.0053	0.0062	0.018	0.0005	0.001	0.0046	0.0019	0.001	0.0008
Arsenic, total (3050)	mg/Kg	1	0.9	0.5	0.3	1.2	2.8	2.7	3.2	1.4	1	1.2	1.3	0.9	1.5	1.2
Barium (1312)	mg/L	ND	ND	ND	ND	0.006	ND	ND	ND	ND	0.005	0.018	ND	ND	0.008	0.004
Barium, total (3050)	mg/Kg	16.4	22	23.2	15.7	20.4	41	25	22.9	27.6	18.9	20.2	26.8	13.8	26.9	12.7
Beryllium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium, total (3050)	mg/Kg	0.18	0.25	0.21	0.24	0.29	1.79	0.23	0.27	0.3	0.21	0.23	1.11	0.33	0.22	0.15
Boron (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron, total (3050)	mg/Kg	ND	ND	1	ND	ND	ND	ND	ND	1	1	ND	ND	1	ND	ND
Cadmium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium, total (3050)	mg/Kg	ND	ND	ND	ND	0.06	0.21	ND	ND	ND	0.07	0.07	0.1	0.1	0.05	ND
Calcium (1312)	mg/L	4.6	5.1	2.1	5.2	1.8	4.6	4.9	4.9	5.3	6.6	5.2	5.1	5.5	5.1	5.6
Calcium, total (3050)	mg/Kg	1540	1580	2140	1950	1640	6130	3700	4230	4430	4980	3430	5950	2300	3240	1110
Chromium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, total (3050)	mg/Kg	7	9	8	9	14	53	11	12	13	12	14	29	7	12	7
Cobalt (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, total (3050)	mg/Kg	10	13	9	7	9	14	8	9	8	11	10	8	7	10	11
Copper (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper, total (3050)	mg/Kg	2	3	3	2	6	30	2	2	3	4	4	17	4	2	3
Iron (1312)	mg/L	ND	0.03	0.04	0.06	0.28	ND	ND	ND	0.07	0.2	0.17	ND	ND	0.04	0.06
Iron, total (3050)	mg/Kg	3780	4890	4080	4620	5470	37600	5070	5940	6610	4750	6030	21900	3820	5190	3710
Lead (1312)	mg/L	ND	0.0002	0.0001	0.0002	0.0007	ND	0.0003	ND	0.0002	0.0004	0.0007	ND	ND	0.0014	0.0001
Lead, total (3050)	mg/Kg	5.77	8.4	6.27	6.47	9.26	47.6	8.11	8.18	8.71	7.14	8.62	32.8	10.6	6.81	5.73
Magnesium (1312)	mg/L	ND	0.4	ND	ND	0.5	0.2	ND	0.2	ND	0.5	0.3	ND	ND	0.2	0.4
Magnesium, total (3050)	mg/Kg	1160	1390	1660	1730	2080	9890	1770	1880	2260	1360	1700	5760	1450	1670	980
Manganese (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	0.018	ND
Manganese, total (3050)	mg/Kg	29.7	35.1	35.4	36.3	33.8	183	51.3	67.1	54.7	66.8	62.3	116	19.5	56.2	20.4
Molybdenum (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, total (3050)	mg/Kg	4.5	4.2	4.8	5	5.7	30.2	5.3	5.5	6.3	5.8	5.4	15.5	3.8	6.4	3.9
Potassium (1312)	mg/L	1.2	2.1	1.1	1.4	1.2	1.4	1.2	1.2	1.2	1	1.7	1.5	1.5	1	1.1
Potassium, total (3050)	mg/Kg	800	1010	880	810	910	2420	930	990	1070	870	910	1620	580	700	650
Selenium (1312)	mg/L	0.0019	0.0012	0.0016	0.0059	0.0011	0.0042	0.0082	0.0167	0.0018	0.0002	0.0003	0.0005	0.0097	0.0013	0.0018
Selenium, total (3050)	mg/Kg	0.28	0.23	0.67	1.09	0.25	0.53	2.28	1.27	1.1	0.16	0.21	0.09	0.52	1.06	0.14
Silica (1312)	mg/L	4.9	5.4	5.4	5.2	4.8	3.6	7	6.8	5.6	5.4	6.7	5.9	3.5	5.3	5.2
Silica, recoverable (3050)	mg/Kg	1560	2800	2150	2020	3700	4690	1650	1810	2210	2670	2880	2780	2320	3280	2700
Silver (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium (1312)	mg/L	1.3	2.6	1.6	1.7	1.8	2.6	1.7	1.9	1.8	1.3	2.1	3.1	2.4	1.7	1.6
Sodium, total (3050)	mg/Kg	290	380	310	250	240	180	280	310	290	260	260	150	180	180	220
Thallium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium, total (3050)	mg/Kg	0.08	0.12	0.06	0.08	0.1	0.7	0.09	0.08	0.1	0.07	0.1	0.42	0.09	0.06	0.06
Uranium (1312)	mg/L	0.0007	0.0028	0.0009	0.0046	0.0007	0.0001	0.0078	0.0442	0.794	0.0013	0.0003	0.0006	0.0004	0.0059	0.0017
Uranium, total (3050)	mg/Kg	1.72	3.31	2.99	4.34	6.36	9.88	9.45	11.1	154	2.48	5.09	8.57	2.98	6.78	2.07
Vanadium (1312)	mg/L	ND	ND	ND	ND	ND	0.021	0.009	0.01	ND	ND	0.007	0.012	0.014	0.006	ND
Vanadium, total (3050)	mg/Kg	7.7	8.8	9.8	10.6	10.2	54.5	13.6	14.4	13.6	11.3	10.5	28.4	6.6	14.4	8.3
Zinc (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc, total (3050)	mg/Kg	8	9	8	10	13	69	11	11	13	11	12	55	10	11	7
Lead 210 (1312)	pCi/L	15	ND	14	6.6	2.4	ND	8	5.9	8.9	1.4	0.99	ND	ND	1.5	ND
Lead 210 (3050)	pCi/g	13	4.4	16	10	2.5	2.9	78	83	39	1.1	2.2	4.5	3.7	2.9	1.3
Radium 226 (1312)	pCi/L	0.15	0.33	0.29	0.58	1.7	0.19	3.8	4.1	4.5	0.09	0.5	0.33	0.53	0.19	0.17
Radium 226 (3050)	pCi/g	0.79	1.2	2.1	2.5	0.99	4.5	87	110	58	0.85	1	2.2	1.2	1.6	1.3
Thorium 228	pCi/L	0.16	0.46	0.51	0.38	0.26	0.29	0.06	0.5	0.35	0.27	ND	ND	0.54	0	0.01
Thorium 230	pCi/L	0.47	1.2	0.62	0.68	ND	-0.19	3.2	4.6	1.4	0.12	ND	0.82	1.4	ND	ND
Thorium 230 (3050)	pCi/g	1.3	0.81	1.8	2.4	1.5	2.5	76	98	42	1.1	ND	2.6	1.3	1.5	0.11
Thorium 232	pCi/L	ND	ND	ND	0.07	ND	0	0.34	ND	0.12	ND	ND	0.16	ND	ND	0.08
Carbon, total organic (TOC)	%	0.3	0.4	0.4	0.4	ND	ND	0.4	0.5	0.5	ND	ND	0.8	0.6	ND	ND
pH	units	9.3	9.4	9.1	9.4	8.7	9.9	9.2	9.3	9.4	9.4	9.4	9.2	8.8	9.5	9.5
pH measured at	C	20.2	20.7	20.4	20.2	21.3	20.9	20.4	20.7	20.5	22.3	21.7	20.9	20.7	21.4	21.2
Solids, Percent	%	94.9	92.6	94.8	82	88.4	90.1	93.4	92.2	84.3	97.2	88.1	90.1	89.2	94.9	91.7
Bicarbonate as CaCO3	mg/L	14.3	20.7	9.8	13.5	4.7	14.1	14.9	16	15	16.7	14.4	15.4	13.6	15.5	12.9
Carbon, total organic (TOC)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonate as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloride (1312 DI)	mg/L	ND	0.7	ND	ND	0.8	ND	ND	ND	0.5	0.8	0.7	0.5	1.3	ND	ND
Conductivity @25C (1312)	umhos/cm	37.6	52.4	24.9	42.7	27.6	45.2	41.8	42.4	42.1	44.8	45.5	50.7	50.7	39.6	45.6
Fluoride (1312 DI)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	0.05	ND	ND	ND	ND
Hydroxide as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residue, Filterable (TDS) @180C	mg/L	14	30	16	22	18	16	30	30	22	28	24	28	22	22	22
Sulfate (1312 DI)	mg/L	1.5	2.7	1.3	2.7	4.8	4.6	ND	ND	1.6	ND	3.1	3.3	4.8	ND	3.9
Total Alkalinity	mg/L	14.3	20.7	9.8	13.5	4.7	14.1	16.5	16.2	15.4	16.7	14.4	16.8	13.6	15.5	12.9

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Mill Area Characterization (MAC) Wells

Borehole/Well ID		MAC-1	MAC-1	MAC-2	MAC-2	MAC-3	MAC-3	MAC-4	MAC-4	MAC-5	MAC-5	MAC-6	MAC-6	MAC-7	MAC-7
Collection Date		12/7/2017	12/7/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/29/2017	11/29/2017	12/19/2017	12/19/2017	11/30/2017	11/30/2017	12/2/2017	12/2/2017
Lab ID #		L41690-03	L41690-04	L41367-05	L41367-06	L41367-07	L41367-08	L41546-01	L41546-02	L41929-01	L41929-02	L41546-03	L41546-04	L41690-01	L41690-02
Depth to Soil Interval		109-112	117-120	96-106	125-135	95-105	125-135	81-83	95-98	90-95	100-105	81-83	125-127	90-95	100-105
	Units														
ANALYTE															
Aluminum (1312)	mg/L	0.29	0.08	0.19	0.2	0.97	0.22	0.09	0.09	0.22	0.23	0.13	0.26	0.15	0.29
Arsenic (1312)	mg/L	0.0019	0.003	ND	0.0006	0.0004	0.0008	0.0005	0.002	0.0006	0.003	0.0005	0.0074	0.0006	0.0018
Barium (1312)	mg/L	0.006	0.005	0.003	0.005	0.007	0.005	ND	ND	ND	ND	ND	ND	0.005	0.005
Beryllium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND
Cadmium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium (1312)	mg/L	4.6	6.4	4.7	6.2	9.5	6.2	5.7	6.1	4.5	7.4	0.9	4.9	3.1	6.2
Chromium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper (1312)	mg/L	0.01	0.01	ND	ND	ND	ND	ND	ND	0.25	ND	ND	ND	0.01	0.01
Iron (1312)	mg/L	ND	ND	0.02	ND	0.73	ND	ND	ND	0.05	0.04	0.07	0.09	0.04	ND
Lead (1312)	mg/L	ND	ND	ND	0.0002	0.001	ND	ND	ND	ND	0.0001	0.0002	0.0004	ND	0.0003
Magnesium (1312)	mg/L	ND	0.3	0.6	0.3	0.7	0.3	0.4	ND	ND	0.4	ND	ND	ND	0.2
Manganese (1312)	mg/L	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium (1312)	mg/L	1.6	1.7	1.3	1.6	2.6	1.5	1.5	1.8	1	1.6	1	1	1.6	2.1
Selenium (1312)	mg/L	0.0007	0.004	ND	0.0004	0.0023	0.0003	0.0107	0.0008	ND	0.0055	0.0017	0.0009	0.0013	0.0004
Silica (1312)	mg/L	4.8	5	5.5	3.8	9	4.5	5.4	3.9	6.5	5	6.1	4.6	4.9	4.6
Silver (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium (1312)	mg/L	1.6	1.9	1.7	1.7	5	1.7	3.2	2.6	1.3	2.4	1.4	1.3	2.4	2.5
Thallium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Uranium (1312)	mg/L	0.0012	0.0018	0.0004	0.0015	0.009	0.0015	0.0656	0.0002	0.0004	0.0245	0.0011	0.0007	0.0003	0.0016
Vanadium (1312)	mg/L	ND	ND	ND	ND	0.007	ND	ND	0.006	0.007	ND	ND	ND	0.006	ND
Zinc (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
Lead 210 (1312)	pCi/L	8.5	11	1.7	ND	ND	1.2	4.2	5.6	1.5	ND	5	0.97	7.6	13
Radium 226 (1312)	pCi/L	0.56	0.93	0.13	0.88	0.45	0.17	0.23	0.24	4.4	0.53	0.83	0.68	1.7	0.35
Thorium 228	pCi/L	0.3	0.61	0.04	0.12	ND	ND	ND	0.13	0.13	0.13	0.4	0.2	0.19	0.23
Thorium 230	pCi/L	ND	ND	0.1	ND	0.5	ND	0.19	1.1	0.75	0.73	2.3	1.8	0.91	0.68
Thorium 232	pCi/L	ND	ND	0.15	ND	ND	ND	ND	ND	0.28	0	0.05	ND	0.14	0.37
Carbon, total organic (TOC)	%	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.4	ND	ND	ND	ND
pH	units	9.5	9.4	9.4	9.4	9.2	9.4	9.2	9.3	9.1	9.3	9.1	8.9	9.1	9.3
pH measured at	C	19.8	19.8	21.2	21.2	21.1	21.1	20.4	20.4	20.5	20.4	20.6	19.9	20	19.8
Bicarbonate as CaCO3	mg/L	24.2	21.7	15.1	14.6	22.8	14.6	36.8	20.3	13.9	17.9	6.4	11.9	20.5	15.3
Carbon, total organic (TOC)	mg/L	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonate as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloride (1312 DI)	mg/L	0.9	1.2	ND	0.8	0.9	ND	0.8	0.9	ND	0.9	0.7	1.6	0.7	1.4
Conductivity @25C (1312)	umhos/cm	36.9	49.1	42.5	50.4	87.8	47.9	50.1	50.8	35.8	64.3	15.1	36.8	31.6	50.3
Fluoride (1312 DI)	mg/L	ND	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	ND
Hydroxide as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residue, Filterable (TDS) @180C	mg/L	24	34	26	22	64	28	30	24	24	34	12	20	24	36
Sulfate (1312 DI)	mg/L	ND	2.4	4	3.2	12	4.9	1.4	2.5	ND	5.6	ND	1.4	1.1	2.1
Total Alkalinity	mg/L	24.2	21.7	15.1	14.6	22.8	14.6	36.8	20.3	14.4	17.9	6.4	11.9	20.5	15.3

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Downgradient Area Characterization (DAC) Wells

Borehole/Well ID		DAC-1	DAC-1	DAC-2	DAC-2	DAC-3	DAC-3	DAC-4	DAC-4	DAC-4	DAC-5	DAC-5	DAC-6	DAC-6	DAC-7	DAC-7
Collection Date		12/15/2017	12/15/2017	12/12/2017	12/12/2017	11/17/2017	1/17/2017	12/14/2017	12/14/2017	12/14/2017	11/15/2017	11/15/2017	12/17/2017	12/17/2017	11/15/2017	11/15/2017
Lab ID #		L41882-01	L41882-02	L41851-04	L41851-05	L41367-09	L41367-10	L41851-01	L41851-02	L41851-03	L41367-01	L41367-02	L41882-03	L41882-04	L41367-03	L41367-04
Depth to Soil Interval		80-85	85-90	70-75	84-89	96-98	110-112	67-72	72-74	87-93	65-70	80-85	95-100	104-109	62-67	70-75
	Units															
ANALYTE																
Aluminum (1312)	mg/L	0.26	0.21	0.18	0.38	0.52	0.1	0.23	0.16	0.3	0.5	0.44	0.09	0.04	0.2	0.25
Arsenic (1312)	mg/L	0.0008	0.0004	0.0008	0.0004	0.0004	0.0019	0.0053	0.0062	0.018	0.0005	0.001	0.0046	0.0019	0.001	0.0008
Barium (1312)	mg/L	ND	ND	ND	ND	0.006	ND	ND	ND	ND	0.005	0.018	ND	ND	0.008	0.004
Beryllium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium (1312)	mg/L	4.6	5.1	2.1	5.2	1.8	4.6	4.9	4.9	5.3	6.6	5.2	5.1	5.5	5.1	5.6
Chromium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron (1312)	mg/L	ND	0.03	0.04	0.06	0.28	ND	ND	ND	0.07	0.2	0.17	ND	ND	0.04	0.06
Lead (1312)	mg/L	ND	0.0002	0.0001	0.0002	0.0007	ND	0.0003	ND	0.0002	0.0004	0.0007	ND	ND	0.0014	0.0001
Magnesium (1312)	mg/L	ND	0.4	ND	ND	0.5	0.2	ND	0.2	ND	0.5	0.3	ND	ND	0.2	0.4
Manganese (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	0.018	ND
Molybdenum (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium (1312)	mg/L	1.2	2.1	1.1	1.4	1.2	1.4	1.2	1.2	1.2	1	1.7	1.5	1.5	1	1.1
Selenium (1312)	mg/L	0.0019	0.0012	0.0016	0.0059	0.0011	0.0042	0.0082	0.0167	0.0018	0.0002	0.0003	0.0005	0.0097	0.0013	0.0018
Silica (1312)	mg/L	4.9	5.4	5.4	5.2	4.8	3.6	7	6.8	5.6	5.4	6.7	5.9	3.5	5.3	5.2
Silver (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium (1312)	mg/L	1.3	2.6	1.6	1.7	1.8	2.6	1.7	1.9	1.8	1.3	2.1	3.1	2.4	1.7	1.6
Thallium (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Uranium (1312)	mg/L	0.0007	0.0028	0.0009	0.0046	0.0007	0.0001	0.0078	0.0442	0.794	0.0013	0.0003	0.0006	0.0004	0.0059	0.0017
Vanadium (1312)	mg/L	ND	ND	ND	ND	ND	0.021	0.009	0.01	ND	ND	0.007	0.012	0.014	0.006	ND
Zinc (1312)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead 210 (1312)	pCi/L	15	ND	14	6.6	2.4	ND	8	5.9	8.9	1.4	0.99	ND	ND	1.5	ND
Radium 226 (1312)	pCi/L	0.15	0.33	0.29	0.58	1.7	0.19	3.8	4.1	4.5	0.09	0.5	0.33	0.53	0.19	0.17
Thorium 228	pCi/L	0.16	0.46	0.51	0.38	0.26	0.29	0.06	0.5	0.35	0.27	ND	ND	0.54	0	0.01
Thorium 230	pCi/L	0.47	1.2	0.62	0.68	ND	ND	3.2	4.6	1.4	0.12	ND	0.82	1.4	ND	ND
Thorium 232	pCi/L	ND	ND	ND	0.07	ND	0	0.34	ND	0.12	ND	ND	ND	0.16	ND	0.08
Carbon, total organic (TOC)	%	0.3	0.4	0.4	0.4	ND	ND	0.4	0.5	0.5	ND	ND	0.8	0.6	ND	ND
pH	units	9.3	9.4	9.1	9.4	8.7	9.9	9.2	9.3	9.4	9.4	9.4	9.2	8.8	9.5	9.5
pH measured at	C	20.2	20.7	20.4	20.2	21.3	20.9	20.4	20.7	20.5	22.3	21.7	20.9	20.7	21.4	21.2
Bicarbonate as CaCO3	mg/L	14.3	20.7	9.8	13.5	4.7	14.1	14.9	16	15	16.7	14.4	15.4	13.6	15.5	12.9
Carbon, total organic (TOC)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonate as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloride (1312 DI)	mg/L	ND	0.7	ND	ND	0.8	ND	ND	ND	0.5	0.8	0.7	0.5	1.3	ND	ND
Conductivity @25C (1312)	umhos/cm	37.6	52.4	24.9	42.7	27.6	45.2	41.8	42.4	42.1	44.8	45.5	50.7	50.7	39.6	45.6
Fluoride (1312 DI)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	0.05	ND	ND	ND	ND
Hydroxide as CaCO3	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Residue, Filterable (TDS) @180C	mg/L	14	30	16	22	18	16	30	30	22	28	24	28	22	22	22
Sulfate (1312 DI)	mg/L	1.5	2.7	1.3	2.7	4.8	4.6	ND	ND	1.6	ND	3.1	3.3	4.8	ND	3.9
Total Alkalinity	mg/L	14.3	20.7	9.8	13.5	4.7	14.1	16.5	16.2	15.4	16.7	14.4	16.8	13.6	15.5	12.9

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Mill Area Characterization (MAC) Wells

Borehole/Well ID	MAC-1	MAC-1	MAC-2	MAC-2	MAC-3	MAC-3	MAC-4	MAC-4	MAC-5	MAC-5	MAC-6	MAC-6	MAC-7	MAC-7	
Collection Date	12/7/2017	12/7/2017	11/15/2017	11/15/2017	11/15/2017	11/15/2017	11/29/2017	11/29/2017	12/19/2017	12/19/2017	11/30/2017	11/30/2017	12/2/2017	12/2/2017	
Lab ID #	L41690-03	L41690-04	L41367-05	L41367-06	L41367-07	L41367-08	L41546-01	L41546-02	L41929-01	L41929-02	L41546-03	L41546-04	L41690-01	L41690-02	
Depth to Soil Interval	109-112	117-120	96-106	125-135	95-105	125-135	81-83	95-98	90-95	100-105	81-83	125-127	90-95	100-105	
Units															
ANALYTE															
Aluminum, total (3050)	mg/Kg	5010	6190	4250	10300	16500	4560	22700	17900	4500	6590	9240	4530	13900	5840
Arsenic, total (3050)	mg/Kg	1	1.1	1.2	1.2	1.9	1	2.7	1.8	0.4	0.9	1.6	2.5	1.4	1.3
Barium, total (3050)	mg/Kg	18	16.7	13.4	22.9	37.1	17.3	39.8	23.7	19.5	18.2	50.8	22.6	32.2	28.9
Beryllium, total (3050)	mg/Kg	0.24	0.28	0.21	0.52	0.88	0.19	1.29	0.81	0.2	0.35	0.52	0.19	0.6	0.28
Boron, total (3050)	mg/Kg	ND	ND	2	ND	2	1	2	ND	ND	1	1	ND	ND	ND
Cadmium, total (3050)	mg/Kg	0.1	0.1	ND	0.09	0.18	0.05	0.33	0.22	ND	ND	0.16	0.13	0.21	0.1
Calcium, total (3050)	mg/Kg	1760	2990	1370	2140	5450	1730	6790	16100	1580	8670	2280	1500	3070	3310
Chromium, total (3050)	mg/Kg	10	7	15	30	27	11	23	35	8	14	9	8	26	16
Cobalt, total (3050)	mg/Kg	8	11	10	7	9	10	8	10	11	11	6	17	7	8
Copper, total (3050)	mg/Kg	3	3	108	9	1260	29	14	16	2	3	5	1	9	1
Iron, total (3050)	mg/Kg	4430	4980	5260	13300	17700	5100	25100	21600	4270	6340	9290	3850	13800	5780
Lead, total (3050)	mg/Kg	8.07	9.71	7.49	16.7	27.9	7.81	52	26.4	7.59	8.58	16.9	13.2	16.1	7.88
Magnesium, total (3050)	mg/Kg	1420	1650	1360	3710	3580	1270	5890	7350	1120	1910	2350	1250	4480	1660
Manganese, total (3050)	mg/Kg	33.9	39	39.7	74.9	99.1	41.4	114	254	27.1	75.9	49.2	30.2	83.4	47.4
Molybdenum, total (3050)	mg/Kg	ND	ND	ND	3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, total (3050)	mg/Kg	5.2	5.2	6.5	9.7	166	8.4	17.6	20.9	4.4	6.3	5.9	4.8	13.8	5.8
Potassium, total (3050)	mg/Kg	920	1010	690	1340	1090	810	1470	2080	890	1130	910	1040	1610	980
Selenium, total (3050)	mg/Kg	0.25	0.29	0.13	0.18	0.47	0.14	1.25	0.4	0.07	0.21	1.35	0.55	0.3	0.24
Silica, recoverable (3050)	mg/Kg	1950	1970	2770	4030	4520	2820	4610	4350	2810	2640	3990	2490	2210	1590
Silver, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, total (3050)	mg/Kg	280	270	190	160	170	230	140	180	320	300	170	430	160	300
Thallium, total (3050)	mg/Kg	0.08	0.1	0.07	0.22	0.32	0.08	0.56	0.37	0.06	0.1	0.19	0.07	0.25	0.09
Uranium, total (3050)	mg/Kg	7.08	6.97	1.86	2.82	14.6	5.48	45.1	4.76	2.27	13	22.6	5.55	13.7	3.19
Vanadium, total (3050)	mg/Kg	11.1	10.2	9.8	16.4	17.6	8.5	30.1	33.7	10.2	12.9	16.1	11.1	24.5	11.8
Zinc, total (3050)	mg/Kg	10	10	10	24	32	11	39	39	8	13	16	9	25	11
Lead 210 (3050)	pCi/g	2.3	3.6	2.7	2.2	2.9	2.4	8.4	3.1	5.5	7	19	3.8	3.6	4
Radium 226 (3050)	pCi/g	1.3	1.1	0.55	0.75	1.7	1.1	6.7	1.9	1	1.7	12	1.6	2.2	0.99
Thorium 230 (3050)	pCi/g	0.45	1.3	0.77	0.6	1.6	1.4	3.8	ND	0.9	2.2	13	0.8	1.2	0.91
Carbon, total organic (TOC)	%	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0.4	ND	ND	ND	ND
Solids, Percent	%	96.4	90.4	97.7	82	93.2	92.6	90.4	89.9	96.2	90.4	93.5	87.1	89.6	87.9

Sweetwater Uranium Facility-Lab Data, 2017 Soil Sampling, Downgradient Area Characterization (DAC) Wells

Borehole/Well ID		DAC-1	DAC-1	DAC-2	DAC-2	DAC-3	DAC-3	DAC-4	DAC-4	DAC-4	DAC-5	DAC-5	DAC-6	DAC-6	DAC-7	DAC-7
Collection Date		12/15/2017	12/15/2017	12/12/2017	12/12/2017	11/17/2017	1/17/2017	12/14/2017	12/14/2017	12/14/2017	11/15/2017	11/15/2017	12/17/2017	12/17/2017	11/15/2017	11/15/2017
Lab ID #		L41882-01	L41882-02	L41851-04	L41851-05	L41367-09	L41367-10	L41851-01	L41851-02	L41851-03	L41367-01	L41367-02	L41882-03	L41882-04	L41367-03	L41367-04
Depth to Soil Interval		80-85	85-90	70-75	84-89	96-98	110-112	67-72	72-74	87-93	65-70	80-85	95-100	104-109	62-67	70-75
	Units															
ANALYTE																
Aluminum, total (3050)	mg/Kg	3760	4930	5040	4940	6320	33600	5410	5940	6700	4440	5100	23200	6180	4920	3470
Arsenic, total (3050)	mg/Kg	1	0.9	0.5	0.3	1.2	2.8	2.7	3.2	1.4	1	1.2	1.3	0.9	1.5	1.2
Barium, total (3050)	mg/Kg	16.4	22	23.2	15.7	20.4	41	25	22.9	27.6	18.9	20.2	26.8	13.8	26.9	12.7
Beryllium, total (3050)	mg/Kg	0.18	0.25	0.21	0.24	0.29	1.79	0.23	0.27	0.3	0.21	0.23	1.11	0.33	0.22	0.15
Boron, total (3050)	mg/Kg	ND	ND	1	ND	ND	ND	ND	ND	1	1	ND	ND	1	ND	ND
Cadmium, total (3050)	mg/Kg	ND	ND	ND	ND	0.06	0.21	ND	ND	ND	0.07	0.07	0.1	0.1	0.05	ND
Calcium, total (3050)	mg/Kg	1540	1580	2140	1950	1640	6130	3700	4230	4430	4980	3430	5950	2300	3240	1110
Chromium, total (3050)	mg/Kg	7	9	8	9	14	53	11	12	13	12	14	29	7	12	7
Cobalt, total (3050)	mg/Kg	10	13	9	7	9	14	8	9	8	11	10	8	7	10	11
Copper, total (3050)	mg/Kg	2	3	3	2	6	30	2	2	3	4	4	17	4	2	3
Iron, total (3050)	mg/Kg	3780	4890	4080	4620	5470	37600	5070	5940	6610	4750	6030	21900	3820	5190	3710
Lead, total (3050)	mg/Kg	5.77	8.4	6.27	6.47	9.26	47.6	8.11	8.18	8.71	7.14	8.62	32.8	10.6	6.81	5.73
Magnesium, total (3050)	mg/Kg	1160	1390	1660	1730	2080	9890	1770	1880	2260	1360	1700	5760	1450	1670	980
Manganese, total (3050)	mg/Kg	29.7	35.1	35.4	36.3	33.8	183	51.3	67.1	54.7	66.8	62.3	116	19.5	56.2	20.4
Molybdenum, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, total (3050)	mg/Kg	4.5	4.2	4.8	5	5.7	30.2	5.3	5.5	6.3	5.8	5.4	15.5	3.8	6.4	3.9
Potassium, total (3050)	mg/Kg	800	1010	880	810	910	2420	930	990	1070	870	910	1620	580	700	650
Selenium, total (3050)	mg/Kg	0.28	0.23	0.67	1.09	0.25	0.53	2.28	1.27	1.1	0.16	0.21	0.09	0.52	1.06	0.14
Silica, recoverable (3050)	mg/Kg	1560	2800	2150	2020	3700	4690	1650	1810	2210	2670	2880	2780	2320	3280	2700
Silver, total (3050)	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium, total (3050)	mg/Kg	290	380	310	250	240	180	280	310	290	260	260	150	180	180	220
Thallium, total (3050)	mg/Kg	0.08	0.12	0.06	0.08	0.1	0.7	0.09	0.08	0.1	0.07	0.1	0.42	0.09	0.06	0.06
Uranium, total (3050)	mg/Kg	1.72	3.31	2.99	4.34	6.36	9.88	9.45	11.1	154	2.48	5.09	8.57	2.98	6.78	2.07
Vanadium, total (3050)	mg/Kg	7.7	8.8	9.8	10.6	10.2	54.5	13.6	14.4	13.6	11.3	10.5	28.4	6.6	14.4	8.3
Zinc, total (3050)	mg/Kg	8	9	8	10	13	69	11	11	13	11	12	55	10	11	7
Lead 210 (3050)	pCi/g	13	4.4	16	10	2.5	2.9	78	83	39	1.1	2.2	4.5	3.7	2.9	1.3
Radium 226 (3050)	pCi/g	0.79	1.2	2.1	2.5	0.99	4.5	87	110	58	0.85	1	2.2	1.2	1.6	1.3
Thorium 230 (3050)	pCi/g	1.3	0.81	1.8	2.4	1.5	2.5	76	98	42	1.1	ND	2.6	1.3	1.5	0.11
Carbon, total organic (TOC)	%	0.3	0.4	0.4	0.4	ND	ND	0.4	0.5	0.5	ND	ND	0.8	0.6	ND	ND
Solids, Percent	%	94.9	92.6	94.8	82	88.4	90.1	93.4	92.2	84.3	97.2	88.1	90.1	89.2	94.9	91.7