

TECHNICAL MEMORANDUM
SEPTEMBER 2016
POTENTIAL IMPACT OF ELEVATED URANIUM
IN SOIL ON SURFACE WATER QUALITY
NIAGARA FALLS STORAGE SITE, LEWISTON, NEW YORK

1.0 OBJECTIVE

HydroGeoLogic, Inc. (HGL) completed a screening-level evaluation of soil data to identify areas within the Niagara Falls Storage Site (NFSS) where uranium in soil could potentially result in elevated uranium concentrations in surface water. The pathway evaluated considered soil to groundwater, then groundwater to surface water. Conservative assumptions were made during this evaluation to overestimate the uranium concentrations in water. Although the analysis is conservative, the results provide a defensible framework to identify areas where more detailed analysis should be performed to more accurately assess future impacts. Conversely, the results also identify areas where uranium in soil is not expected to result in negative impacts to surface water.

2.0 METHODOLOGY

The analysis HGL conducted used soil sampling results provided by the U.S. Army Corps of Engineers (USACE) – Buffalo District. For soil samples where uranium was detected, HGL calculated the uranium concentration that would be expected in the pore water within the sample and in the groundwater directly beneath the sample through the application of a dilution attenuation factor (DAF). HGL then assumed that the calculated concentration in groundwater would be the same as the concentration that would be expected in nearby surface water. This assumption is very conservative. It does not account for the attenuation of uranium within the saturated zone. It also does not account for dilution/mixing within the surface water in the drainage ditches. Nonetheless, this approach provides a simple screening method to identify areas where uranium in soil will not negatively impact surface water. Perhaps more importantly, the screening evaluation identifies areas that require more scrutiny.

Three screening levels were used to evaluate whether the uranium detected in soil may negatively impact surface water. These include the following.

- The calculated uranium concentrations in pore water and saturated groundwater were compared to the maximum concentration limit (MCL) for total uranium of 30 micrograms/liter ($\mu\text{g/L}$).
- The calculated uranium concentrations were compared to the annual limit on the intake of total isotopic uranium in effluent discharge of 300 picocuries (pCi/L) (10 Code of Federal Regulations [CFR] 20, Appendix B).
- The calculated uranium concentrations were compared to the Canadian Water Quality Guideline for the protection of aquatic life from long-term exposure to uranium of 15 $\mu\text{g/L}$.

It should be noted that the Canadian Water Quality Guideline is evaluated as a “to be considered” surrogate for the lack of U.S. guidance or regulation for uranium risk to aquatic environments.

The locations where the calculated uranium concentration exceeded the three screening levels were identified on Figures 1 and 2. The NFSS 3D groundwater model was then used to determine which locations were close enough to the drainage ditches, where the uranium in soil could potentially leach to groundwater and reach the drainage ditch within a 1,000-year time period. These locations were identified on Figure 3. Uranium in soil outside the 1,000-year flow path boundaries have a very low probability of negatively impacting surface water.

Soil sampling data collected during the NFSS Remedial Investigation (RI) and Supplemental RI were used to perform the analysis. These data were provided by the USACE in a Microsoft Access database. The USACE database contains 3,416 soil sampling results collected from 1999 to 2015. Both surface and subsurface sampling results are contained in the database, and the subsurface soil samples were collected from multiple depth intervals. The database contains laboratory analysis results for both isotopic uranium and total uranium. However, not all samples were analyzed for both isotopic uranium and total uranium. Results for the isotopic analysis of uranium-238 (U-238) are the most prevalent uranium analyses in the database, with 2,457 soil samples analyzed for U-238. A total of 959 samples were analyzed for total uranium.

For most samples in which total uranium results were reported, U-238 results were also reported. The U-238 isotope represents approximately 99.7% of the total uranium mass; consequently, HGL used the U-238 isotopic analysis to approximate the total uranium concentration in cases where a sample was not analyzed for total uranium. To confirm the validity of this approximation, HGL conducted a statistical comparison between 928 samples that were analyzed for both U-238 and total uranium. For the comparison, HGL converted the U-238 isotopic concentrations in soil to mass concentrations (i.e., units of mg/kg). The U-238 specific activity of 3.4×10^{-7} Ci/g was used to perform this conversion. The statistical analysis, performed using a parametric t-test, demonstrated that the two data sets are similar; therefore, U-238 concentrations in soil were used in the subsequent analysis to approximate total uranium concentrations, in cases where a soil sample was not analyzed for total uranium.

If a duplicate sample analysis was provided in the database, the average of the parent and duplicate results was calculated and used. If a soil at a given location was sampled from multiple depth intervals and these depth intervals overlap, the measurement with the highest uranium concentration for a specific depth interval was used. Overall, the available data were grouped into surface locations (0 to 0.5 feet below ground surface [ft bgs]) and subsurface locations (below 0.5 ft bgs).

The total uranium concentrations in soil were used estimate the total uranium that would be expected in pore water within the individual samples. This was accomplished using the following formula for linear partitioning:

$$C_w = C_s / K_d$$

where, C_pw = total uranium concentration in pore water ($\mu\text{g/L}$);

C_s = total uranium concentration in soil ($\mu\text{g}/\text{kg}$); and
 K_d = distribution coefficient (L/kg)

A K_d of 122 L/kg was used to perform these calculations. This K_d value was calculated by SAIC as part of the NFSS RI.

The calculated total uranium concentrations in pore water represent the expected concentration in water within the unsaturated zone. The pore water that infiltrates vertically to the water table is diluted as it mixes with clean groundwater flowing within the saturated zone. This dilution process can be approximated using a DAF. A DAF of 20 was used to approximate the total uranium in groundwater directly beneath individual soil samples. This value is the default value used by the U.S. Environmental Protection Agency (USEPA) to develop soil screening criteria, and is thought to be a conservative estimate. Using the default DAF, the expected total uranium concentration in groundwater was calculated using the following formula:

$$C_{gw} = C_{pw}/DAF$$

where: C_{gw} = concentration in groundwater ($\mu\text{g}/\text{L}$).

The calculated total uranium concentrations in pore water and in groundwater (see Table 1) were compared against three screening levels to determine whether uranium concentrations in soil could potentially have a negative impact on surface water. Two of the screening levels are based on mass concentrations (e.g., the MCL of 30 $\mu\text{g}/\text{L}$ and Canadian screening level of 15 $\mu\text{g}/\text{L}$), whereas the annual limit on the intake of uranium in effluent discharge of 300 pCi/L (10 CFR 20, Appendix B) is isotopically based. To facilitate comparison to the calculated concentrations in pore water and saturated groundwater, the activity-based concentration was converted to a mass-based concentration. To perform this conversion, it was assumed that the uranium isotopes in soil reflect the isotopic ratios associated with natural uranium. The conversion resulted in an equivalent screening level of 439 $\mu\text{g}/\text{L}$.

It should be noted the total uranium concentrations that were calculated for vadose zone pore water and groundwater are higher than the concentrations that would be expected in surface water. The uranium in groundwater would likely be attenuated through dispersion and chemical adsorption as the groundwater flows towards the drainage ditches. In addition, the uranium would also be diluted by cleaner water within the NFSS drainage ditches.

As a final step in the analysis, the NFSS groundwater flow model (2012 model update, baseline conditions) was used to determine areas where uranium in soil could potentially leach into groundwater and travel to one of the drainage ditches within a 1,000-year time period. To complete this analysis, reverse particle tracking was used to predict groundwater travel times to surface water. Particles were placed in the drain cells representing the primary drainage ditches in the model. These drain cells represent locations where groundwater discharge to surface water is anticipated. Particle tracking was not performed from the smaller on-site drainage ditches because groundwater discharge to surface water is not anticipated at these locations.

Two particle tracking simulations were performed. The initial simulation was performed to evaluate the distance that a conservative tracer would move in groundwater over a 1,000-year period. This simulation reflects the distance that uranium could migrate if chemical adsorption

was not a factor; therefore, uranium migration is assumed to occur at the same velocity as the groundwater flow. In practice, uranium moves much slower than groundwater, because uranium migration is retarded by geochemical processes in groundwater systems (e.g., adsorption). To evaluate the impact of uranium adsorption, a retardation factor was calculated for uranium, and this retardation factor was incorporated in to the particle tracking analysis. The retardation factor accounts for the chemical adsorption that occurs for reactive chemical species such as uranium.

The retardation factor for uranium was calculated using the following formula:

$$Rf = 1 + K_d * (\rho/\phi)$$

where: Rf = retardation factor (unitless);

ρ = bulk density (kg/L)

ϕ = porosity (unitless)

To calculate the retardation factor, the site-specific Kd of 122 L/Kg was used. In addition, a bulk density of 1.3 g/cm³ to 1.7 g/cm³ (RI Addendum, Table 3-19) and a total porosity of 45% were used to calculate the retardation factor. A total porosity of 45% is consistent with glacial tills. When a retardation factor was applied in the particle tracking analysis, the results indicated that uranium in groundwater near the drainage ditches would not migrate more than 100 feet within a 1,000-year period.

To ensure that the analysis is conservative, only the particle tracking simulations representing a conservative tracer are presented in the results section of this technical memorandum (Section 3.0). Soil that is not located within the 1,000-year pathlines for the conservative tracer would have a very low probability of impacting surface water.

3.0 SUMMARY OF RESULTS

The calculated uranium concentrations in pore water and in groundwater are summarized in Table 1. The table identifies the soil samples that would result in a surface water screening level exceedance. Maps illustrating the screening level exceedances are provided in Figures 1 and 2.

Figure 1 illustrates the calculated screening level exceedances in the unsaturated zone pore water. The figure shows that there are wide spread exceedances of the Canadian screening level and the MCL. However, it should be noted that the site-specific uranium soil background values (surface soils = 1.36 pCi/g and subsurface soils = 1.34 pCi/g) lead to a slight exceedance of the MCL when a Kd of 122 L/kg is used in the calculations. Given the conservative nature of the calculations, the exceedance of the uranium MCL and Canadian screening level in pore water are not considered to represent a realistic threat to surface water. There are eight areas within the NFSS where there are exceedances of the 300 pCi/L (439 µg/L) screening level. These are identified on Figure 1. These areas represent regions that may require additional scrutiny.

Figure 2 illustrates the calculated screening level exceedances in the saturated groundwater. Of the eight areas that were identified based on screening-level exceedances in unsaturated zone pore water, eight of the areas have one or more exceedances of the aquatic screening level, seven of the areas have one or more exceedance of the MCL screening level, and only two of the areas have exceedances of the effluent discharge screening level. It should be noted that in all but one case,

the exceedances are very limited, and the soil samples that are associated with the screening level exceedance are surrounded by soil samples that are below the screening criteria. The exception to this is Area 6 where there are several exceedances of the Canadian Water Quality Guideline.

The results of the reverse particle tracking analysis are shown on Figure 3. The red polygons surrounding the particle tracks represent the area in which shallow groundwater could travel to one of the drainage ditches within 1,000 years. As discussed in Section 2.0, the particle tracking results presented on this figure assume that chemical adsorption is not attenuating uranium migration. This is not the case at the NFSS; therefore, the results are highly conservative. The eight areas with elevated uranium concentrations in soil are also shown on Figure 3. Of these areas, only Areas 4 and 6 are primarily within the 1,000-year groundwater pathlines. Groundwater within the other areas is not expected to reach the drainage ditches within 1,000 years.

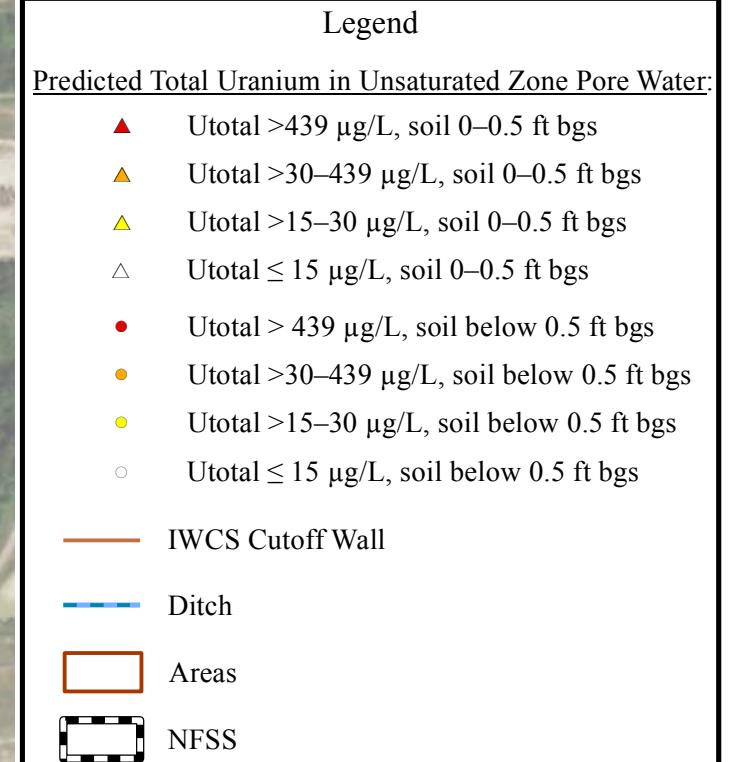
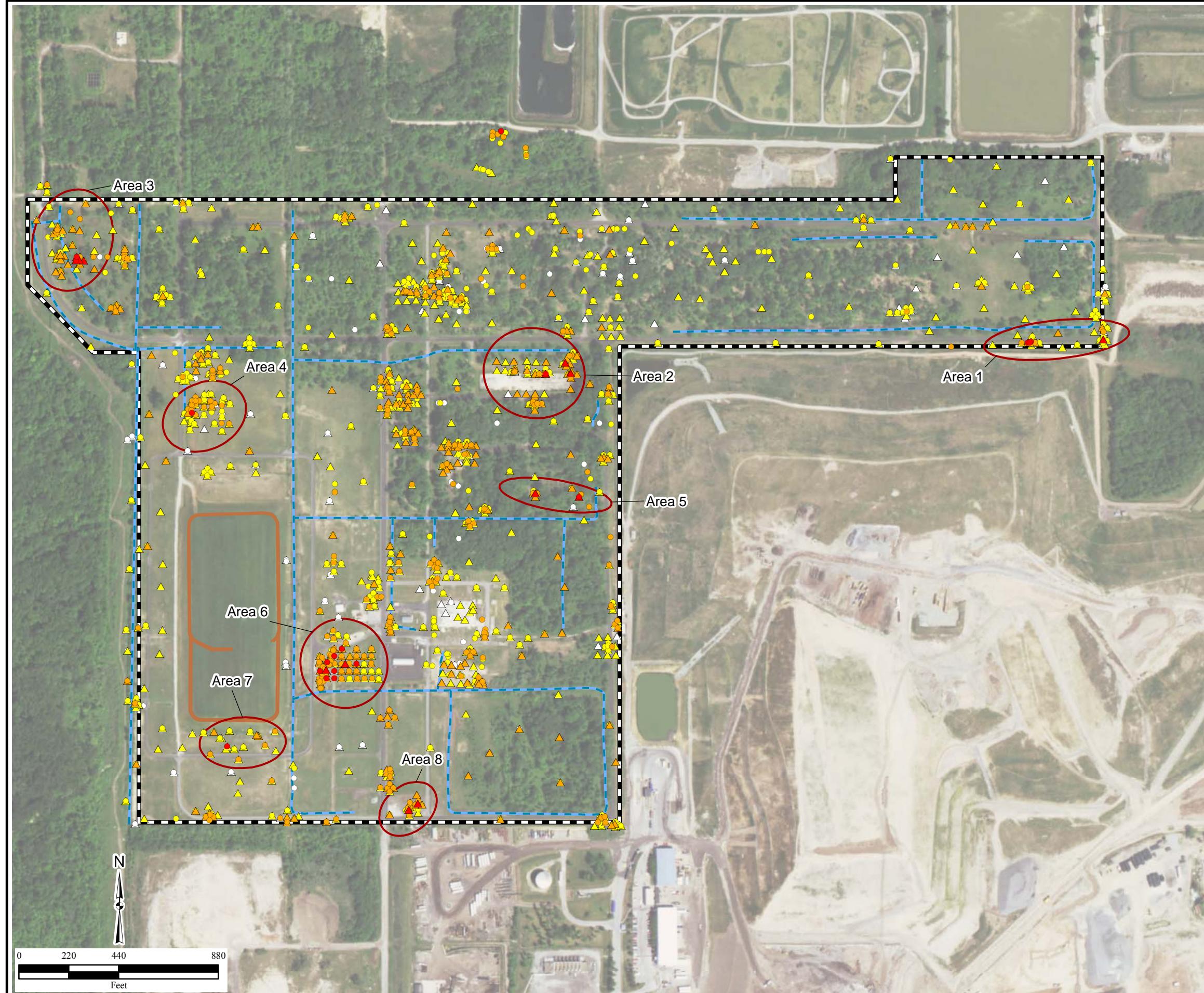
A summary of the analysis is provided in Table 2. Of the two areas that are within the 1,000-year groundwater pathlines, both have potential exceedances of the Canadian Water Quality Guideline and MCL screening criteria. However, neither area includes soil samples that would result in an exceedance of the effluent discharge screening level, and there are only three isolated exceedances of the MCL screening level within Areas 4 and 6.

4.0 CONCLUSIONS

Based on the screening-level analysis that was conducted, there is a low probability that uranium in NFSS soil will impact surface water quality in the drainage ditches. There are few soil samples that would result in a screening level exceedance in groundwater. Furthermore, only two of eight areas associated with screening level exceedances in pore water are within the 1,000-year capture zone associated with the major drainage ditches.

FIGURES

Figure 1
Calculated Total Uranium Concentration in Unsaturated Zone Pore Water



Notes:
Calculated water concentrations assume equilibrium partitioning with soil using Kd of 122 mL/g and represent screening-level calculations only.
The values depicted on this map do not represent measured water concentrations on the NFSS.

ft bgs=feet below ground surface
IWCS=Interim Waste Containment Structure
mL/g=milliliters per gram
µg/L=micrograms per liter
NFSS=Niagara Falls Storage Site

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(1)Calculated_UTotal.mxd
9/13/2016 ARW
Source: HGL, SAIC, URS
ArcGIS Online Imagery



Figure 2
Calculated Total Uranium Concentration in Saturated Groundwater

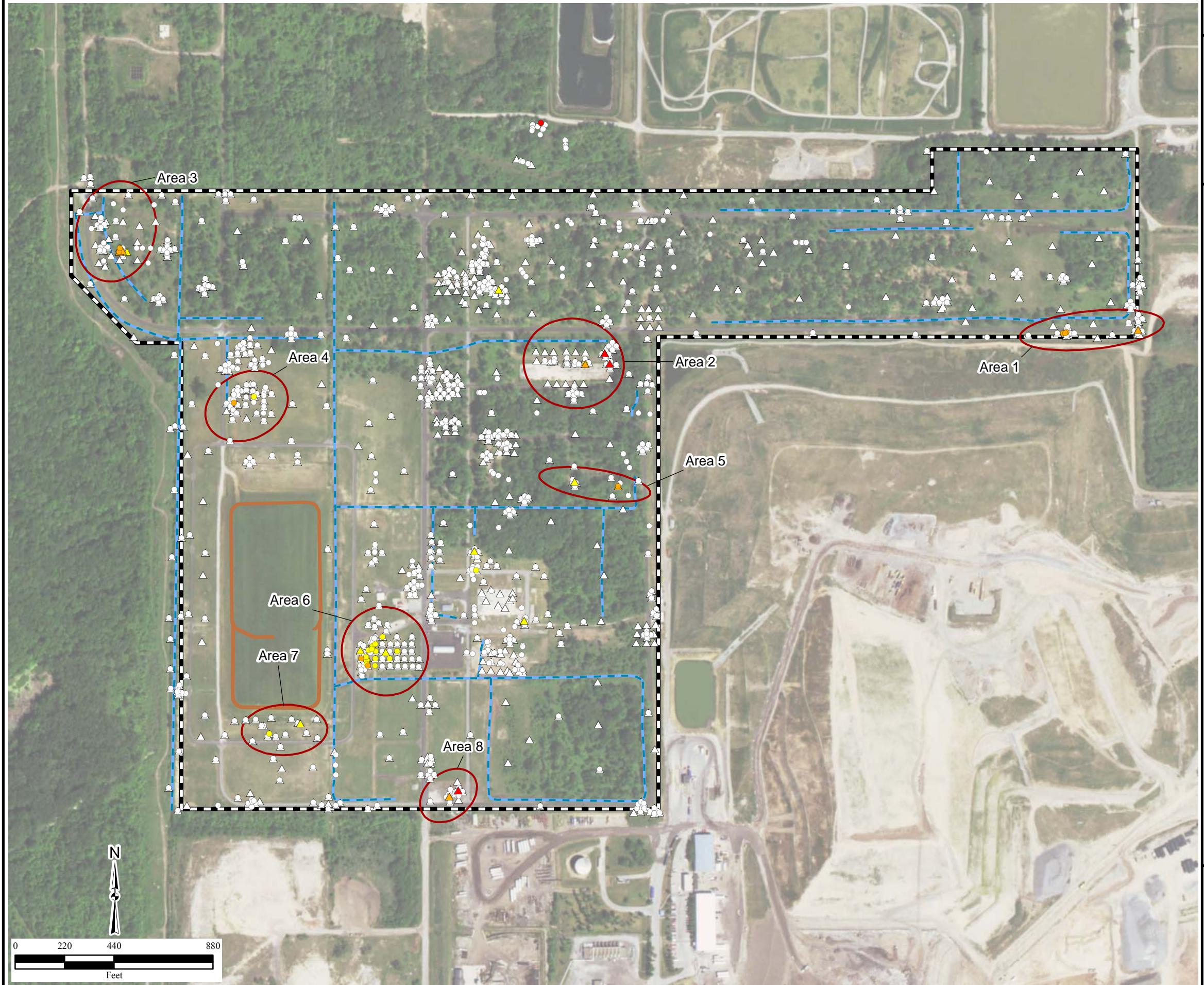
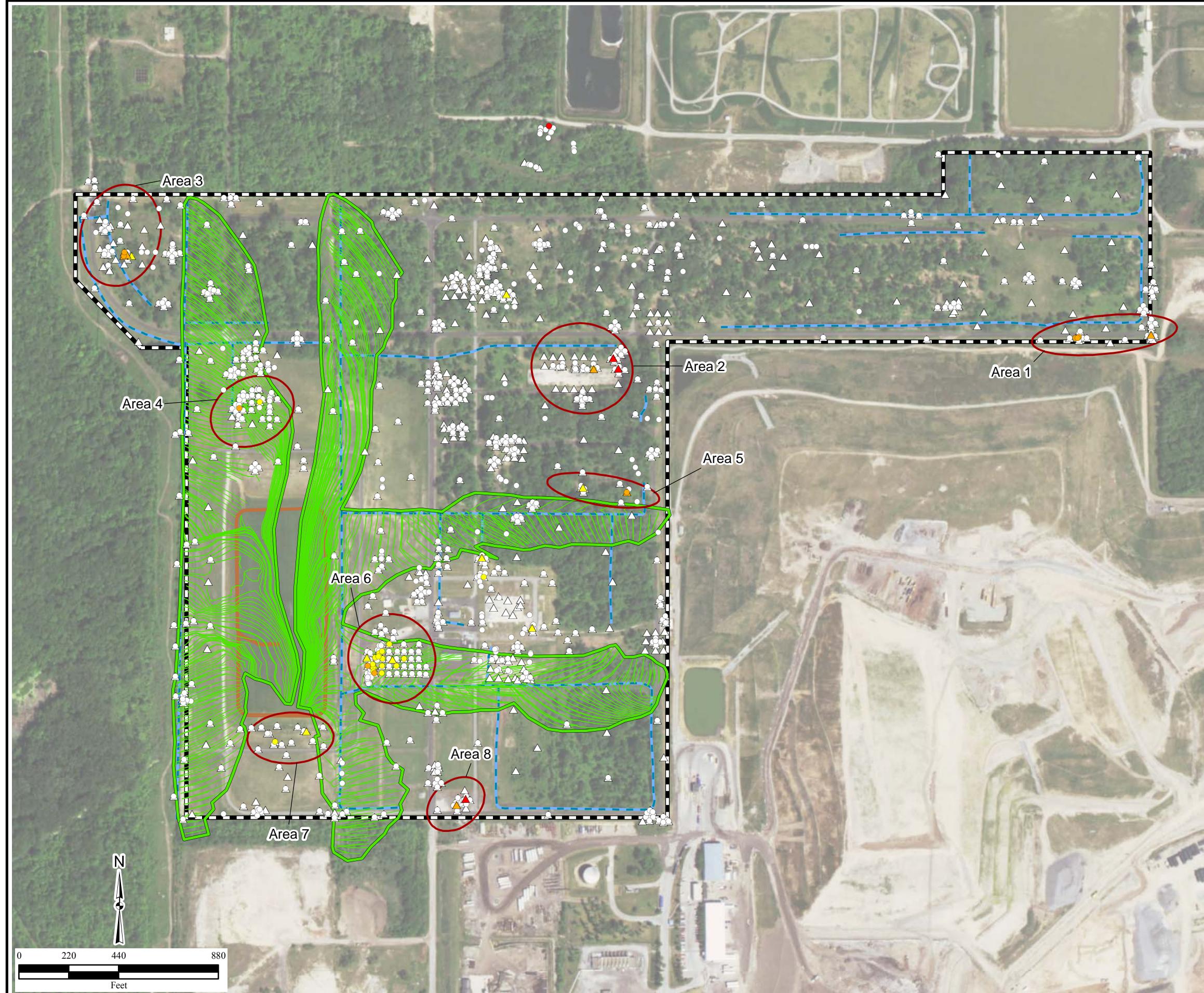


Figure 3
Reverse Particle Tracking Analysis



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(3)ReverseParticleTracking_1000yr.mxd
9/13/2016 ARW
Source: HGL, SAIC, URS
ArcGIS Online Imagery



TABLES

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
101	10	10.5	9/8/2000	1.67	MG/KG	13.689	0.68
101	0	0.5	9/8/2000	3.64	MG/KG	29.836	1.49
102	9	9.5	9/8/2000	2.3	MG/KG	18.852	0.94
102	0	0.5	9/8/2000	2.5	MG/KG	20.492	1.02
103	10	10.5	9/8/2000	2.3	MG/KG	18.852	0.94
103	0	0.5	9/8/2000	3.9	MG/KG	31.967	1.60
201	9.5	10	11/18/1999	1.94	MG/KG	15.902	0.80
201	0	0.5	11/18/1999	3.39	MG/KG	27.787	1.39
202	9.5	10	11/22/1999	2.6	MG/KG	21.311	1.07
202	0	0.5	11/22/1999	6.34	MG/KG	51.967	2.60
203	11.5	12	11/19/1999	2.99	MG/KG	24.508	1.23
203	0	0.5	11/19/1999	5.06	MG/KG	41.475	2.07
204	8.5	9	11/19/1999	2.44	MG/KG	20.000	1.00
204	0	0.5	11/19/1999	2.92	MG/KG	23.934	1.20
205	12	12.5	11/17/1999	2.03	MG/KG	16.639	0.83
205	0	0.5	11/17/1999	0.763	PCI/G	18.405	0.92
206	8.5	9	11/17/1999	4.77	MG/KG	39.098	1.95
206	0	0.5	11/17/1999	0.796	PCI/G	19.201	0.96
207	13.5	14	11/21/1999	1.6	MG/KG	13.115	0.66
207	0	0.5	11/21/1999	3.96	MG/KG	32.459	1.62
208	11.5	12	11/21/1999	2.81	MG/KG	23.033	1.15
208	0	0.5	11/21/1999	3.61	MG/KG	29.590	1.48
209	9.5	10	11/21/1999	2.58	MG/KG	21.148	1.06
209	0	0.5	11/21/1999	2.45	MG/KG	20.082	1.00
210	12.5	13	11/21/1999	1.76	MG/KG	14.426	0.72
210	0	0.5	11/21/1999	0.65	PCI/G	15.679	0.78
211	10.5	11	11/21/1999	2.56	MG/KG	20.984	1.05
211	0	0.5	11/21/1999	3.03	MG/KG	24.836	1.24
212	12	12.5	11/18/1999	2.53	MG/KG	20.738	1.04
212	0	0.5	11/18/1999	2.73	MG/KG	22.377	1.12
213	12	12.5	11/18/1999	2.68	MG/KG	21.967	1.10
213	0	0.5	11/18/1999	3.05	MG/KG	25.000	1.25
214	14.5	15	11/18/1999	2.28	MG/KG	18.689	0.93
214	0	0.5	11/18/1999	2.39	MG/KG	19.590	0.98
215	7	7.5	12/1/1999	3.61	MG/KG	29.590	1.48
215	0	0.5	12/1/1999	3.2	MG/KG	26.230	1.31
216	10	10.5	11/18/1999	2.69	MG/KG	22.049	1.10
216	0	0.5	11/18/1999	2.66	MG/KG	21.803	1.09
217	12.5	13	11/19/1999	2.4	MG/KG	19.672	0.98
217	0	0.5	11/19/1999	2.54	MG/KG	20.820	1.04
218	1.5	2	9/10/2000	2.74	MG/KG	22.459	1.12
218	15	15	9/30/2003	1.225	PCI/G	29.550	1.48
218	0	0.5	9/10/2000	49.4	MG/KG	404.918	20.25
219	1.5	2	9/15/2000	3.91	MG/KG	32.049	1.60
219	6	6	10/3/2003	1.995	PCI/G	48.124	2.41
219	0	0.5	9/15/2000	20.9	MG/KG	171.311	8.57
220	20	20	9/30/2003	2.05	MG/KG	16.803	0.84
220	0	0.5	9/13/2000	21.1	MG/KG	172.951	8.65
221	1.5	2	9/10/2000	4.48	MG/KG	36.721	1.84
221	0	0.5	9/10/2000	44.8	MG/KG	367.213	18.36
222	6	6	10/3/2003	1.93	MG/KG	15.820	0.79

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
223	3	3	10/2/2003	3.49	MG/KG	28.607	1.43
224	10	10	10/4/2003	1.89	MG/KG	15.492	0.77
225	10	10	10/3/2003	1.65	MG/KG	13.525	0.68
226	12	12	10/3/2003	1.96	MG/KG	16.066	0.80
227	15	15	10/4/2003	1.77	MG/KG	14.508	0.73
301	9.5	10	12/1/1999	2.4	MG/KG	19.672	0.98
301	0	0.5	12/1/1999	3.1	MG/KG	25.410	1.27
302	10.5	11	11/18/1999	1.85	MG/KG	15.164	0.76
302	0	0.5	11/18/1999	0.658	PCI/G	15.872	0.79
303	7.5	8	12/1/1999	2	MG/KG	16.393	0.82
303	0	0.5	12/1/1999	4.81	MG/KG	39.426	1.97
304	8.5	9	12/1/1999	2.43	MG/KG	19.918	1.00
304	0	0.5	12/1/1999	2.55	MG/KG	20.902	1.05
305	12	12.5	12/2/1999	2.02	MG/KG	16.557	0.83
305	0	0.5	12/2/1999	2.92	MG/KG	23.934	1.20
306	12	12.5	12/2/1999	2.02	MG/KG	16.557	0.83
306	0	0.5	12/2/1999	4.2	MG/KG	34.426	1.72
307	9.5	10	12/2/1999	1.96	MG/KG	16.066	0.80
307	0	0.5	12/2/1999	2.53	MG/KG	20.738	1.04
308	18.5	19	11/17/1999	2.09	MG/KG	17.131	0.86
308	0	0.5	11/17/1999	10.4	MG/KG	85.246	4.26
309	18.5	19	11/17/1999	1.56	MG/KG	12.787	0.64
309	0	0.5	11/17/1999	3.09	MG/KG	25.328	1.27
310	8	8.5	12/2/1999	1.8	MG/KG	14.754	0.74
310	0	0.5	12/2/1999	1.98	MG/KG	16.230	0.81
311	12.5	13	11/18/1999	2.25	MG/KG	18.443	0.92
311	0	0.5	11/18/1999	5.33	MG/KG	43.689	2.18
312	14.5	15	11/18/1999	2.07	MG/KG	16.967	0.85
312	0	0.5	11/18/1999	2.09	PCI/G	50.415	2.52
313	13	13.5	9/15/2000	2.38	MG/KG	19.508	0.98
313	0	0.5	9/15/2000	3.23	MG/KG	26.475	1.32
314	1	1.5	9/14/2000	3.2	MG/KG	26.230	1.31
314	0	0.5	9/14/2000	5.77	MG/KG	47.295	2.36
401	19.5	20	11/16/1999	2.32	MG/KG	19.016	0.95
401	0	0.5	11/16/1999	0.724	PCI/G	17.464	0.87
402	22.5	23	11/8/1999	1.76	MG/KG	14.426	0.72
402	0	0.5	11/8/1999	33.1	MG/KG	271.311	13.57
403	17.5	18	11/8/1999	1.7	MG/KG	13.934	0.70
403	0	0.5	11/7/1999	2.6	MG/KG	21.311	1.07
404	24.5	25	11/7/1999	1.43	MG/KG	11.721	0.59
404	0	0.5	11/7/1999	3	MG/KG	24.590	1.23
405	24.5	25	11/8/1999	1.62	MG/KG	13.279	0.66
405	0	0.5	11/8/1999	1.86	MG/KG	15.246	0.76
406	17.5	18	11/16/1999	2.12	MG/KG	17.377	0.87
406	0	0.5	11/16/1999	1.12	PCI/G	27.017	1.35
407	19.5	20	11/8/1999	1.3	MG/KG	10.656	0.53
407	0	0.5	11/8/1999	3.69	MG/KG	30.246	1.51
408	19.5	20	11/17/1999	1.57	MG/KG	12.869	0.64
408	0	0.5	11/17/1999	2.24	MG/KG	18.361	0.92
409	0	0.5	11/30/1999	2.96	MG/KG	24.262	1.21
410	10.5	11	11/30/1999	1.97	MG/KG	16.148	0.81

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(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
410	0	0.5	11/30/1999		MG/KG	0.000	0.00
411	19.5	20	11/16/1999	1.83	MG/KG	15.000	0.75
411	0	0.5	11/16/1999	2.71	MG/KG	22.213	1.11
412	14.5	15	11/22/1999	1.7	MG/KG	13.934	0.70
412	0	0.5	11/22/1999	2.18	MG/KG	17.869	0.89
413	18.5	19	11/22/1999	2.61	MG/KG	21.393	1.07
413	0	0.5	11/22/1999	2.72	MG/KG	22.295	1.11
414	20.5	21	12/2/1999	3.15	MG/KG	25.820	1.29
414	5	5	10/1/2003	0.8355	PCI/G	20.154	1.01
414	0	0.5	12/2/1999	1	MG/KG	8.197	0.41
415	13.5	14	11/30/1999	1.63	MG/KG	13.361	0.67
415	0	0.5	11/30/1999	1.8	MG/KG	14.754	0.74
416	20.5	21	12/3/1999	1.67	MG/KG	13.689	0.68
416	0	0.5	12/3/1999	1.68	MG/KG	13.770	0.69
417	8.4	8.9	11/30/1999	2.14	MG/KG	17.541	0.88
417	0	0.5	11/30/1999	2.39	MG/KG	19.590	0.98
418	18.5	19	12/1/1999	1.69	MG/KG	13.852	0.69
418	0	0.5	12/1/1999	1.8	MG/KG	14.754	0.74
419	16.5	17	12/1/1999	1.75	MG/KG	14.344	0.72
419	0	0.5	12/1/1999	1.9	MG/KG	15.574	0.78
420	6.5	7	11/17/1999	2	MG/KG	16.393	0.82
420	0	0.5	11/17/1999	0.955	PCI/G	23.037	1.15
421	15.5	16	12/1/1999	2.04	MG/KG	16.721	0.84
421	0	0.5	12/1/1999	2	MG/KG	16.393	0.82
422	10	10.5	9/10/2000	2.28	MG/KG	18.689	0.93
422	0	0.5	9/9/2000	2.29	MG/KG	18.770	0.94
423	9.5	10	9/12/2000	2.06	MG/KG	16.885	0.84
423	0	0.5	9/12/2000	3.13	MG/KG	25.656	1.28
424	15.5	16	9/10/2000	1.79	MG/KG	14.672	0.73
424	0	0.5	9/9/2000	2.36	MG/KG	19.344	0.97
425	10	10.5	9/11/2000	2.45	MG/KG	20.082	1.00
425	0	0.5	9/11/2000	2.46	MG/KG	20.164	1.01
501	11.5	12	11/7/1999	2.3	MG/KG	18.852	0.94
501	0	0.5	11/7/1999	2.43	MG/KG	19.918	1.00
502	12.5	13	11/17/1999	2.52	MG/KG	20.656	1.03
502	0	0.5	11/16/1999	27.1	MG/KG	222.131	11.11
503	12.5	13	11/7/1999	1.92	MG/KG	15.738	0.79
503	0	0.5	11/7/1999	366	MG/KG	3000.000	150.00
504	13.5	14	9/9/2000	2.75	MG/KG	22.541	1.13
504	0	0.5	9/9/2000	27.7	MG/KG	227.049	11.35
505	16.5	17	8/26/2000	2.08	MG/KG	17.049	0.85
505	0	0.5	8/26/2000	3.58	MG/KG	29.344	1.47
506	12.5	13	9/9/2000	2.77	MG/KG	22.705	1.14
506	0	0.5	9/9/2000	2.55	MG/KG	20.902	1.05
601	12.5	13	12/2/1999	2.05	MG/KG	16.803	0.84
601	0	0.5	12/2/1999	1.68	MG/KG	13.770	0.69
602	14.5	15	11/16/1999	1.98	MG/KG	16.230	0.81
602	0	0.5	11/16/1999	0.605	PCI/G	14.594	0.73
603	0	0.5	11/16/1999	0.838	PCI/G	20.214	1.01
604	14.5	15	11/7/1999	1.83	MG/KG	15.000	0.75
604	0	0.5	11/7/1999	2.28	MG/KG	18.689	0.93

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
605	16	16.5	9/11/2000	1.7	MG/KG	13.934	0.70
605	0	0.5	9/11/2000	2.96	MG/KG	24.262	1.21
606	17.5	18	8/25/2000	0.907	PCI/G	21.879	1.09
606	0	0.5	8/25/2000	287	MG/KG	2352.459	117.62
607	16.5	17	9/11/2000	1.96	MG/KG	16.066	0.80
607	0	0.5	9/11/2000	2.48	MG/KG	20.328	1.02
801	17.5	18	11/6/1999	2.01	MG/KG	16.475	0.82
801	0	0.5	11/6/1999	3.79	MG/KG	31.066	1.55
802	16.5	17	11/6/1999	1.71	MG/KG	14.016	0.70
802	0	0.5	11/6/1999	2.22	MG/KG	18.197	0.91
803	7	7.5	11/17/1999	2.97	MG/KG	24.344	1.22
803	0	0.5	11/17/1999	3.31	MG/KG	27.131	1.36
804	7	7.5	12/2/1999	2.12	MG/KG	17.377	0.87
804	0	0.5	12/2/1999	4.41	MG/KG	36.148	1.81
805	7	7.5	11/7/1999	2.1	MG/KG	17.213	0.86
805	0	0.5	11/7/1999	3.29	MG/KG	26.967	1.35
806	18.4	18.9	11/6/1999	1.63	MG/KG	13.361	0.67
806	0	0.5	11/6/1999	3.71	MG/KG	30.410	1.52
807	17.7	18.2	11/6/1999	2.19	MG/KG	17.951	0.90
807	0	0.5	11/6/1999	2.57	MG/KG	21.066	1.05
808	14.5	15	11/8/1999	1.57	MG/KG	12.869	0.64
808	0	0.5	11/8/1999	2.48	MG/KG	20.328	1.02
809	17.5	18	11/16/1999	1.19	MG/KG	9.754	0.49
809	0	0.5	11/16/1999	0.795	PCI/G	19.177	0.96
810	11.5	12	11/30/1999	0.879	MG/KG	7.205	0.36
810	0	0.5	11/30/1999	1.81	MG/KG	14.836	0.74
811	22.5	23	12/2/1999	2.11	MG/KG	17.295	0.86
811	0	0.5	12/2/1999	1.74	MG/KG	14.262	0.71
812	9.5	10	11/8/1999	2.09	MG/KG	17.131	0.86
812	0	0.5	11/8/1999	1.92	MG/KG	15.738	0.79
813	10	10.5	9/9/2000	2.12	MG/KG	17.377	0.87
813	0	0.5	9/9/2000	3.65	MG/KG	29.918	1.50
814	18.5	19	8/30/2000	2.49	MG/KG	20.410	1.02
814	0	0.5	8/30/2000	9.52	MG/KG	78.033	3.90
815	10.5	11	9/10/2000	2.38	MG/KG	19.508	0.98
815	0	0.5	9/10/2000	9.23	MG/KG	75.656	3.78
816	11.5	12	8/25/2000	1.065	PCI/G	25.690	1.28
816	0	0.5	8/25/2000	8.94	MG/KG	73.279	3.66
817	9.5	10	9/9/2000	2.67	MG/KG	21.885	1.09
817	0	0.5	9/9/2000	4.79	MG/KG	39.262	1.96
818	10	10.5	9/12/2000	1.63	MG/KG	13.361	0.67
818	0	0.5	9/12/2000	5.52	MG/KG	45.246	2.26
819	8.5	9	9/11/2000	2.69	MG/KG	22.049	1.10
819	0	0.5	9/11/2000	55.8	MG/KG	457.377	22.87
820	18	18.5	9/8/2000	1.85	MG/KG	15.164	0.76
820	0	0.5	9/8/2000	3.94	MG/KG	32.295	1.61
821	11.5	12	9/9/2000	2.75	MG/KG	22.541	1.13
821	0	0.5	9/8/2000	3.7	MG/KG	30.328	1.52
822	10.5	11	9/8/2000	2.41	MG/KG	19.754	0.99
822	0	0.5	9/8/2000	3.14	MG/KG	25.738	1.29
823	13	13.5	9/11/2000	2.23	MG/KG	18.279	0.91

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
823	0	0.5	9/11/2000	2.17	MG/KG	17.787	0.89
824	12.5	13	9/11/2000	1.69	MG/KG	13.852	0.69
824	0	0.5	9/11/2000	2.49	MG/KG	20.410	1.02
825	9	9.5	9/11/2000	2.52	MG/KG	20.656	1.03
825	0	0.5	9/11/2000	2.17	MG/KG	17.787	0.89
826	0	0.5	9/14/2000	9.87	MG/KG	80.902	4.05
827	1.5	2	9/13/2000	6.51	MG/KG	53.361	2.67
827	0	0.5	9/13/2000	8.35	MG/KG	68.443	3.42
828	0	0.5	8/31/2000	9.08	MG/KG	74.426	3.72
829	0	0.5	9/15/2000	3.06	MG/KG	25.082	1.25
830	1.5	2	9/10/2000	30.1	MG/KG	246.721	12.34
830	0	0.5	9/10/2000	884	MG/KG	7245.902	362.30
831	15	15	10/2/2003	1.66	MG/KG	13.607	0.68
831	0	0.5	10/2/2003	2.77	MG/KG	22.705	1.14
832	12	12	10/2/2003	2.25	MG/KG	18.443	0.92
832	0	0.5	10/2/2003	3.42	MG/KG	28.033	1.40
833	10	10	10/2/2003	2.95	MG/KG	24.180	1.21
833	0	0.5	10/2/2003	40.2	MG/KG	329.508	16.48
834	14	14	10/3/2003	2.11	MG/KG	17.295	0.86
834	0	0.5	10/2/2003	2.65	MG/KG	21.721	1.09
835	15	15	9/20/2003	1	MG/KG	8.197	0.41
835	0	0.5	9/20/2003	0.596	MG/KG	4.885	0.24
836	15	15	9/21/2003	0.938	MG/KG	7.689	0.38
836	0	0.5	9/21/2003	1.02	MG/KG	8.361	0.42
837	19	19	9/21/2003	0.833	MG/KG	6.828	0.34
837	0	0.5	9/21/2003	1.18	MG/KG	9.672	0.48
838	14	14	9/30/2003	2.22	MG/KG	18.197	0.91
838	0	0.5	9/30/2003	1.5	MG/KG	12.295	0.61
839	14	14	9/30/2003	1.59	MG/KG	13.033	0.65
839	0	0.5	9/30/2003	1.86	MG/KG	15.246	0.76
840	12	12	9/18/2003	0.981	MG/KG	8.041	0.40
840	0	0.5	9/18/2003	1.05	MG/KG	8.607	0.43
841	10	10	9/18/2003	0.656	MG/KG	5.377	0.27
841	0	0.5	9/18/2003	2.27	MG/KG	18.607	0.93
842	10	10	9/18/2003	1.05	MG/KG	8.607	0.43
842	0	0.5	9/19/2003	1.22	MG/KG	10.000	0.50
843	10	10	9/19/2003	1	MG/KG	8.197	0.41
843	0	0.5	9/19/2003	1.53	MG/KG	12.541	0.63
844	11	11	9/19/2003	0.767	MG/KG	6.287	0.31
844	0	0.5	9/19/2003	1.52	MG/KG	12.459	0.62
845	13	13	9/19/2003	0.548	MG/KG	4.492	0.22
845	0	0.5	9/19/2003	1.61	MG/KG	13.197	0.66
846	16	16	9/19/2003	1.25	MG/KG	10.246	0.51
846	0	0.5	9/19/2003	1.54	MG/KG	12.623	0.63
847	10	10	9/19/2003	1.19	MG/KG	9.754	0.49
847	0	0.5	9/19/2003	1.65	MG/KG	13.525	0.68
848	11	11	9/21/2003	1.07	MG/KG	8.770	0.44
848	0	0.5	9/21/2003	2.04	MG/KG	16.721	0.84
849	11	11	9/21/2003	0.993	MG/KG	8.139	0.41
849	0	0.5	9/21/2003	2.21	MG/KG	18.115	0.91
850	17	17	9/21/2003	0.891	MG/KG	7.303	0.37

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
850	0	0.5	9/21/2003	1.33	MG/KG	10.902	0.55
851	18	18	9/21/2003	0.938	MG/KG	7.689	0.38
851	0	0.5	9/21/2003	1.29	MG/KG	10.574	0.53
852	15	15	9/30/2003	1.2	MG/KG	9.836	0.49
852	0	0.5	9/30/2003	2.91	MG/KG	23.852	1.19
853	16.5	16.5	9/30/2003	2.02	MG/KG	16.557	0.83
853	0	0.5	9/30/2003	2.46	MG/KG	20.164	1.01
854	13	13	9/30/2003	1.24	MG/KG	10.164	0.51
854	0	0.5	9/30/2003	3.29	MG/KG	26.967	1.35
855	15	15	9/30/2003	1.52	MG/KG	12.459	0.62
855	0	0.5	9/30/2003	2.76	MG/KG	22.623	1.13
856	11	11	10/2/2003	1.24	MG/KG	10.164	0.51
856	0	0.5	10/2/2003	2.33	MG/KG	19.098	0.95
857	11	11	10/2/2003	1.11	MG/KG	9.098	0.45
857	0	0.5	10/2/2003	24.3	MG/KG	199.180	9.96
858	16	16	10/2/2003	2.25	MG/KG	18.443	0.92
858	0	0.5	10/2/2003	2.9	MG/KG	23.770	1.19
859	18	18	10/2/2003	1.86	MG/KG	15.246	0.76
859	0	0.5	10/2/2003	2.61	MG/KG	21.393	1.07
860	15	15	9/21/2003	0.979	MG/KG	8.025	0.40
861	34.5	34.5	9/20/2003	0.906	MG/KG	7.426	0.37
861	38	38	9/20/2003	0.691	MG/KG	5.664	0.28
861	0	0.5	9/20/2003	1.08	MG/KG	8.852	0.44
864	10	10	10/2/2003	1.77	MG/KG	14.508	0.73
901	1.5	2	11/15/2001	0.576	MG/KG	4.721	0.24
901	0	0.5	11/15/2001	0.878	MG/KG	7.197	0.36
902	1.5	2	11/15/2001	1.84	MG/KG	15.082	0.75
902	0	0.5	11/15/2001	1.96	MG/KG	16.066	0.80
903	1.5	2	11/18/2001	3.09	MG/KG	25.328	1.27
903	0	0.5	11/18/2001	4.01	MG/KG	32.869	1.64
904	2.5	3	11/18/2001	2.24	MG/KG	18.361	0.92
904	0	0.5	11/18/2001	2.36	MG/KG	19.344	0.97
905	1.5	2	11/18/2001	12.2	MG/KG	100.000	5.00
905	0	0.5	11/18/2001	13.5	MG/KG	110.656	5.53
906	2.5	3	11/18/2001	1.92	MG/KG	15.738	0.79
906	0	0.5	11/18/2001	2.32	MG/KG	19.016	0.95
907	2	2.5	11/15/2001	2.01	MG/KG	16.475	0.82
907	0	0.5	11/15/2001	1.87	MG/KG	15.328	0.77
908	2	2.5	11/18/2001	2.87	MG/KG	23.525	1.18
908	0	0.5	11/18/2001	2.19	MG/KG	17.951	0.90
909	1.5	2	11/14/2001	1.17	MG/KG	9.590	0.48
909	0	0.5	11/14/2001	1.38	MG/KG	11.311	0.57
910	1.5	2	11/14/2001	1.92	MG/KG	15.738	0.79
910	0	0.5	11/14/2001	1.49	MG/KG	12.213	0.61
913	1	1.5	11/15/2001	3.67	MG/KG	30.082	1.50
913	0	0.5	11/15/2001	4.07	MG/KG	33.361	1.67
1A001	0	0.5	9/7/2001	3.33	MG/KG	27.295	1.36
1A002	0	0.5	9/7/2001	2.85	MG/KG	23.361	1.17
1B001	0	0.5	9/7/2001	2.3	MG/KG	18.852	0.94
1B002	0	0.5	9/7/2001	2.8	MG/KG	22.951	1.15
203-1	0.5	2	12/4/2013	0.999	PCI/G	24.098	1.20

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
203-1	2	3	12/4/2013	1.97	PCI/G	47.521	2.38
203-1	0	0.5	12/4/2013	1.23	PCI/G	29.670	1.48
203-2	0.5	2	12/4/2013	0.849	PCI/G	20.480	1.02
203-2	2	3	12/4/2013	0.793	PCI/G	19.129	0.96
203-2	0	0.5	12/4/2013	1.07	PCI/G	25.811	1.29
203-3	0.5	2	12/4/2013	0.813	PCI/G	19.611	0.98
203-3	2	3	12/4/2013	1.44	PCI/G	34.736	1.74
203-3	0	0.5	12/4/2013	1.43	PCI/G	34.495	1.72
203-4	0.5	2	12/4/2013	1.3	PCI/G	31.359	1.57
203-4	2	3	12/4/2013	2.25	PCI/G	54.275	2.71
203-4	0	0.5	12/4/2013	1.36	PCI/G	32.806	1.64
205-1	0.5	2	12/16/2013	0.858	PCI/G	20.697	1.03
205-1	2	3	12/16/2013	0.712	PCI/G	17.175	0.86
205-1	0	0.5	12/16/2013	0.976	PCI/G	23.543	1.18
205-2	0.5	2	12/16/2013	1	PCI/G	24.122	1.21
205-2	2	3	12/16/2013	0.504	PCI/G	12.158	0.61
205-2	0	0.5	12/16/2013	0.926	PCI/G	22.337	1.12
205-3	0.5	2	12/16/2013	2.95	PCI/G	71.160	3.56
205-3	2	3	12/16/2013	1.11	PCI/G	26.776	1.34
205-3	0	0.5	12/16/2013	0.762	PCI/G	18.381	0.92
205-4	0.5	2	12/16/2013	0.961	PCI/G	23.181	1.16
205-4	0	0.5	12/16/2013	1.07	PCI/G	25.811	1.29
218-1	0.5	2	12/3/2013	1.36	PCI/G	32.806	1.64
218-1	2	3	12/3/2013	1.34	PCI/G	32.324	1.62
218-1	0	0.5	12/3/2013	0.982	PCI/G	23.688	1.18
218-2	0.5	2	12/3/2013	1.6	PCI/G	38.596	1.93
218-2	2	3	12/3/2013	0.771	PCI/G	18.598	0.93
218-2	0	0.5	12/3/2013	0.819	PCI/G	19.756	0.99
218-3	0.5	2	12/3/2013	1.03	PCI/G	24.846	1.24
218-3	2	3	12/3/2013	1.32	PCI/G	31.841	1.59
218-3	0	0.5	12/3/2013	1.07	PCI/G	25.811	1.29
218-4	0.5	2	12/3/2013	1.66	PCI/G	40.043	2.00
218-4	2	3	12/3/2013	1	PCI/G	24.122	1.21
218-4	0	0.5	12/3/2013	1.22	PCI/G	29.429	1.47
219-1	0.5	2	12/13/2013	0.762	PCI/G	18.381	0.92
219-1	2	3	12/13/2013	0.996	PCI/G	24.026	1.20
219-1	0	0.5	12/13/2013	0.828	PCI/G	19.973	1.00
219-2	0.5	2	12/13/2013	0.853	PCI/G	20.576	1.03
219-2	2	3	12/13/2013	0.912	PCI/G	21.999	1.10
219-2	0	0.5	12/13/2013	0.993	PCI/G	23.953	1.20
219-3	0.5	2	12/13/2013	0.804	PCI/G	19.394	0.97
219-3	2	3	12/13/2013	1.25	PCI/G	30.153	1.51
219-3	0	0.5	12/13/2013	0.857	PCI/G	20.673	1.03
219-4	0.5	2	12/13/2013	0.572	PCI/G	13.798	0.69
219-4	2	3	12/13/2013	1.38	PCI/G	33.289	1.66
219-4	0	0.5	12/13/2013	1.06	PCI/G	25.570	1.28
220-1	0.5	2	12/3/2013	1.09	PCI/G	26.293	1.31
220-1	2	3	12/3/2013	1.37	PCI/G	33.047	1.65
220-1	0	0.5	12/3/2013	1	PCI/G	24.122	1.21
220-2	0.5	2	12/3/2013	0.842	PCI/G	20.311	1.02
220-2	2	3	12/3/2013	1.18	PCI/G	28.464	1.42

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
220-2	0	0.5	12/3/2013	0.648	PCI/G	15.631	0.78
220-3	0.5	2	12/3/2013	16.5	PCI/G	398.016	19.90
220-3	2	3	12/3/2013	3.44	PCI/G	82.980	4.15
220-3	0	0.5	12/3/2013	0.707	PCI/G	17.054	0.85
220-4	0.5	2	12/3/2013	1.53	PCI/G	36.907	1.85
220-4	2	3	12/3/2013	1.19	PCI/G	28.705	1.44
221-1	0.5	2	12/3/2013	0.592	PCI/G	14.280	0.71
221-1	2	3	12/3/2013	0.735	PCI/G	17.730	0.89
221-1	0	0.5	12/3/2013	0.655	PCI/G	15.800	0.79
221-2	0.5	2	12/3/2013	0.599	PCI/G	14.449	0.72
221-2	2	3	12/3/2013	2.58	PCI/G	62.235	3.11
221-3	0.5	2	12/3/2013	2.23	PCI/G	53.792	2.69
221-3	2	3	12/3/2013	2.65	PCI/G	63.924	3.20
221-4	0.5	2	12/3/2013	3.2	PCI/G	77.191	3.86
221-4	2	3	12/3/2013	0.888	PCI/G	21.421	1.07
221-4	0	0.5	12/3/2013	2.09	PCI/G	50.415	2.52
221A	15	15	9/30/2003	1.5	MG/KG	12.295	0.61
2A001	10.5	11	9/11/2000	2.14	MG/KG	17.541	0.88
2A002	10.5	11	9/12/2000	2.56	MG/KG	20.984	1.05
2A002	0	0.5	9/12/2000	2.22	MG/KG	18.197	0.91
2A003	11	11.5	9/12/2000	2.58	MG/KG	21.148	1.06
2A003	0	0.5	9/12/2000	1.88	MG/KG	15.410	0.77
2A004	0	0.5	9/10/2001	3.51	MG/KG	28.770	1.44
2A005	1.53	1.7	9/8/2001	2.34	MG/KG	19.180	0.96
2A005	0	0.5	9/8/2001	2.77	MG/KG	22.705	1.14
2A006	0	0.5	11/17/2001	3.12	MG/KG	25.574	1.28
2A006-1	0.5	2	11/13/2013	1.17	PCI/G	28.223	1.41
2A006-1	2	3	11/13/2013	1.86	PCI/G	44.867	2.24
2A006-1	0	0.5	11/13/2013	0.967	PCI/G	23.326	1.17
2A006-2	0.5	2	11/13/2013	1.14	PCI/G	27.499	1.37
2A006-2	2	3	11/13/2013	1.25	PCI/G	30.153	1.51
2A006-2	0	0.5	11/13/2013	1.41	PCI/G	34.012	1.70
2A006-3	0.5	2	11/13/2013	0.815	PCI/G	19.660	0.98
2A006-3	2	3	11/13/2013	0.921	PCI/G	22.217	1.11
2A006-3	0	0.5	11/13/2013	0.764	PCI/G	18.429	0.92
2A006-4	0.5	2	11/13/2013	1.28	PCI/G	30.876	1.54
2A006-4	2	3	11/13/2013	1.95	PCI/G	47.038	2.35
2A006-4	0	0.5	11/13/2013	1.12	PCI/G	27.017	1.35
2A006-5	0.5	2	6/17/2014	1.3	PCI/G	31.359	1.57
2A006-5	2	3	6/17/2014	1.12	PCI/G	27.017	1.35
2A006-5	0	0.5	6/17/2014	1.82	PCI/G	43.902	2.20
2A006-6	0.5	2	6/17/2014	2.99	PCI/G	72.125	3.61
2A006-6	2	3	6/17/2014	1.45	PCI/G	34.977	1.75
2A006-6	0	0.5	6/17/2014	6.24	PCI/G	150.522	7.53
2A007	0	0.5	11/17/2001	2.42	MG/KG	19.836	0.99
2A008	0	0.5	11/17/2001	2.91	MG/KG	23.852	1.19
2A008-1	0.5	2	12/3/2013	1.24	PCI/G	29.912	1.50
2A008-1	2	3	12/3/2013	0.786	PCI/G	18.960	0.95
2A008-1	0	0.5	12/3/2013	0.889	PCI/G	21.445	1.07
2A008-2	0.5	2	12/3/2013	0.767	PCI/G	18.502	0.93
2A008-2	0	0.5	12/3/2013	1.14	PCI/G	27.499	1.37

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
2A008-3	0.5	2	12/3/2013	1.33	PCI/G	32.083	1.60
2A008-3	2	3	12/3/2013	1.1	PCI/G	26.534	1.33
2A008-3	3	4	12/3/2013	0.884	PCI/G	21.324	1.07
2A008-3	0	0.5	12/3/2013	1.11	PCI/G	26.776	1.34
2A008-4	0.5	2	12/3/2013	1.02	PCI/G	24.605	1.23
2A008-4	2	3	12/3/2013	0.622	PCI/G	15.004	0.75
2A008-4	0	0.5	12/3/2013	1.43	PCI/G	34.495	1.72
2A008-5	0.5	2	6/18/2014	1.57	PCI/G	37.872	1.89
2A008-5	2	3	6/18/2014	1.02	PCI/G	24.605	1.23
2A008-5	0	0.5	6/18/2014	1.07	PCI/G	25.811	1.29
2A008-6	0.5	2	6/18/2014	1.21	PCI/G	29.188	1.46
2A008-6	2	3	6/18/2014	0.985	PCI/G	23.760	1.19
2A008-6	0	0.5	6/18/2014	1.59	PCI/G	38.354	1.92
2A008-7	0.5	2	6/18/2014	1.18	PCI/G	28.464	1.42
2A008-7	2	3	6/18/2014	1.2	PCI/G	28.947	1.45
2A008-7	0	0.5	6/18/2014	1.43	PCI/G	34.495	1.72
2A008-8	0.5	2	6/18/2014	1.48	PCI/G	35.701	1.79
2A008-8	2	3	6/18/2014	1.15	PCI/G	27.741	1.39
2A008-8	0	0.5	6/18/2014	1.11	PCI/G	26.776	1.34
2A009	0	0.5	11/17/2001	0.846	MG/KG	6.934	0.35
2B001	15.5	16	8/30/2000	2.35	MG/KG	19.262	0.96
2B001	0	0.5	8/26/2000	2.68	MG/KG	21.967	1.10
2B002	9	9.5	8/30/2000	2.72	MG/KG	22.295	1.11
2B002	0	0.5	8/26/2000	3.65	MG/KG	29.918	1.50
2B003	7.5	8	9/12/2000	1.86	MG/KG	15.246	0.76
2B003	0	0.5	8/26/2000	9.59	MG/KG	78.607	3.93
2B004	0	0.5	8/26/2000	9.69	MG/KG	79.426	3.97
2B005	0	0.5	8/26/2000	2.51	MG/KG	20.574	1.03
2B006	12.5	13	9/15/2000	2.35	MG/KG	19.262	0.96
2B006	0	0.5	8/26/2000	6.21	MG/KG	50.902	2.55
2B007	0	0.5	8/26/2000	4.44	MG/KG	36.393	1.82
2B008	0	0.5	8/26/2000	5.62	MG/KG	46.066	2.30
2B009	0	0.5	8/26/2000	3.05	MG/KG	25.000	1.25
2B010	0	0.5	8/26/2000	3.32	MG/KG	27.213	1.36
2B011	0	0.5	8/26/2000	3.89	MG/KG	31.885	1.59
2B012	0	0.5	8/26/2000	2.6	MG/KG	21.311	1.07
2B013	0	0.5	8/26/2000	2.12	MG/KG	17.377	0.87
2B014	2	2	11/17/2001	3.55	MG/KG	29.098	1.45
2B014	0	0.5	11/17/2001	9.96	MG/KG	81.639	4.08
2B014-1	0.5	2	12/18/2013	0.829	PCI/G	19.997	1.00
2B014-1	0	0.5	12/18/2013	0.887	PCI/G	21.396	1.07
2B014-2	0.5	2	12/18/2013	1.02	PCI/G	24.605	1.23
2B014-2	2	3	12/18/2013	1.28	PCI/G	30.876	1.54
2B014-2	0	0.5	12/18/2013	0.766	PCI/G	18.478	0.92
2B014-3	0.5	2	12/18/2013	1.54	PCI/G	37.148	1.86
2B014-3	2	3	12/18/2013	0.707	PCI/G	17.054	0.85
2B014-3	0	0.5	12/18/2013	1.79	PCI/G	43.179	2.16
2B014-4	0	0.5	12/18/2013	2.75	PCI/G	66.336	3.32
2B015	0	0.5	11/17/2001	3.93	MG/KG	32.213	1.61
2B016	0	0.5	11/17/2001	4.01	MG/KG	32.869	1.64
2B017	0	0.5	11/17/2001	3.22	MG/KG	26.393	1.32

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
2B018	0	0.5	11/17/2001	2.78	MG/KG	22.787	1.14
2C001	16.5	17	9/12/2000	1.6	MG/KG	13.115	0.66
2C002	0	0.5	11/17/2001	2.5	MG/KG	20.492	1.02
2D001	0	0.5	8/27/2000	1.99	MG/KG	16.311	0.82
2D002	0	0.5	8/27/2000	3.11	MG/KG	25.492	1.27
2D003	0	0.5	8/27/2000	1.8	MG/KG	14.754	0.74
2D004	0	0.5	8/27/2000	0.111	MG/KG	0.910	0.05
2D005	0	0.5	8/27/2000	2.05	MG/KG	16.803	0.84
2D006	0	0.5	8/27/2000	2.78	MG/KG	22.787	1.14
2D007	0	0.5	8/27/2000	2.67	MG/KG	21.885	1.09
2D008	0	0.5	8/27/2000	2.07	MG/KG	16.967	0.85
2D009	0	0.5	11/17/2001	5.57	MG/KG	45.656	2.28
2D010	0	0.5	11/19/2001	4.6	MG/KG	37.705	1.89
2D011	0	0.5	11/17/2001	7.71	MG/KG	63.197	3.16
2D012	0	0.5	11/17/2001	2.42	MG/KG	19.836	0.99
2D012-1	0.5	2	12/17/2013	1.01	PCI/G	24.363	1.22
2D012-1	2	3	12/17/2013	1.67	PCI/G	40.284	2.01
2D012-1	0	0.5	12/17/2013	0.988	PCI/G	23.833	1.19
2D012-2	0.5	2	12/17/2013	1.92	PCI/G	46.315	2.32
2D012-2	2	3	12/17/2013	0.851	PCI/G	20.528	1.03
2D012-2	0	0.5	12/17/2013	1.07	PCI/G	25.811	1.29
2D012-4	0.5	2	12/17/2013	1.95	PCI/G	47.038	2.35
2D012-4	2	3	12/17/2013	2.07	PCI/G	49.933	2.50
2D012-4	2	3	12/17/2013	1.67	PCI/G	40.284	2.01
2D012-4	0	0.5	12/17/2013	2.15	PCI/G	51.863	2.59
2D013	0	0.5	11/17/2001	3.41	MG/KG	27.951	1.40
2D013-1	0.5	2	12/17/2013	4.04	PCI/G	97.454	4.87
2D013-1	0	0.5	12/17/2013	3.33	PCI/G	80.327	4.02
2D013-2	0.5	2	12/17/2013	0.805	PCI/G	19.418	0.97
2D013-2	2	3	12/17/2013	0.703	PCI/G	16.958	0.85
2D013-2	0	0.5	12/17/2013	0.752	PCI/G	18.140	0.91
2D013-4	0.5	2	12/17/2013	1.04	PCI/G	25.087	1.25
2D013-4	2	3	12/17/2013	0.886	PCI/G	21.372	1.07
2D013-4	0	0.5	12/17/2013	1.13	PCI/G	27.258	1.36
308-1	0.5	2	12/10/2013	1.13	PCI/G	27.258	1.36
308-1	2	3	12/10/2013	0.802	PCI/G	19.346	0.97
308-1	0	0.5	12/10/2013	0.929	PCI/G	22.410	1.12
308-2	0.5	2	12/10/2013	1.4	PCI/G	33.771	1.69
308-2	2	3	12/10/2013	1.31	PCI/G	31.600	1.58
308-2	0	0.5	12/10/2013	2.11	PCI/G	50.898	2.54
312-1	0.5	2	12/2/2013	0.69	PCI/G	16.644	0.83
312-1	2	3	12/2/2013	0.638	PCI/G	15.390	0.77
312-1	0	0.5	12/2/2013	0.767	PCI/G	18.502	0.93
312-2	0.5	2	12/2/2013	0.984	PCI/G	23.736	1.19
312-2	2	3	12/2/2013	1.26	PCI/G	30.394	1.52
312-2	0	0.5	12/2/2013	1.02	PCI/G	24.605	1.23
312-3	0.5	2	12/2/2013	0.892	PCI/G	21.517	1.08
312-3	2	3	12/2/2013	0.715	PCI/G	17.247	0.86
312-3	0	0.5	12/2/2013	1.16	PCI/G	27.982	1.40
312-4	0.5	2	6/20/2014	1.55	PCI/G	37.389	1.87
312-4	2	3	6/20/2014	0.73	PCI/G	17.609	0.88

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
312-4	0	0.5	6/20/2014	1.76	PCI/G	42.455	2.12
312-5	0.5	2	6/20/2014	1.34	PCI/G	32.324	1.62
312-5	2	3	6/20/2014	1.3	PCI/G	31.359	1.57
312-5	0	0.5	6/20/2014	1.81	PCI/G	43.661	2.18
314-1	0.5	2	12/9/2013	1.57	PCI/G	37.872	1.89
314-1	2	3	12/9/2013	1.1	PCI/G	26.534	1.33
314-1	0	0.5	12/9/2013	1.19	PCI/G	28.705	1.44
314-2	2	3	12/9/2013	0.773	PCI/G	18.646	0.93
314-2	0	0.5	12/9/2013	0.75	PCI/G	18.092	0.90
314-3	0.5	2	12/9/2013	0.721	PCI/G	17.392	0.87
314-3	2	3	12/9/2013	0.703	PCI/G	16.958	0.85
314-3	0	0.5	12/9/2013	1.32	PCI/G	31.841	1.59
314-4	2	3	12/9/2013	0.705	PCI/G	17.006	0.85
314-4	0	0.5	12/9/2013	1.07	PCI/G	25.811	1.29
3A001	0	0.5	8/25/2000	2.07	MG/KG	16.967	0.85
3A002	0	0.5	8/25/2000	3.94	MG/KG	32.295	1.61
3A002-1	2	3	11/22/2013	1.01	PCI/G	24.363	1.22
3A002-1	0	0.5	11/22/2013	0.545	PCI/G	13.147	0.66
3A002-1	0.5	2	11/22/2013	0.609	PCI/G	14.690	0.73
3A002-2	0.5	2	11/22/2013	0.857	PCI/G	20.673	1.03
3A002-2	2	3	11/22/2013	0.879	PCI/G	21.203	1.06
3A002-2	0	0.5	11/22/2013	0.98	PCI/G	23.640	1.18
3A002-3	0.5	2	11/22/2013	1.07	PCI/G	25.811	1.29
3A002-3	2	3	11/22/2013	0.796	PCI/G	19.201	0.96
3A002-3	0	0.5	11/22/2013	0.936	PCI/G	22.578	1.13
3A002-4	0.5	2	11/22/2013	0.874	PCI/G	21.083	1.05
3A002-4	2	3	11/22/2013	1.1	PCI/G	26.534	1.33
3A002-4	0	0.5	11/22/2013	0.898	PCI/G	21.662	1.08
3A003	0	0.5	8/25/2000	4.24	MG/KG	34.754	1.74
3A004	0	0.5	8/25/2000	12.1	MG/KG	99.180	4.96
3A005	0	0.5	8/25/2000	9.12	MG/KG	74.754	3.74
3A005-1	0.5	2	11/22/2013	1.22	PCI/G	29.429	1.47
3A005-1	2	3	11/22/2013	0.836	PCI/G	20.166	1.01
3A005-1	0	0.5	11/22/2013	2.96	PCI/G	71.402	3.57
3A005-2	0.5	2	11/22/2013	1.52	PCI/G	36.666	1.83
3A005-2	2	3	11/22/2013	0.91	PCI/G	21.951	1.10
3A005-2	0	0.5	11/22/2013	1.62	PCI/G	39.078	1.95
3A005-3	0.5	2	11/22/2013	1.19	PCI/G	28.705	1.44
3A005-3	2	3	11/22/2013	0.964	PCI/G	23.254	1.16
3A005-3	0	0.5	11/22/2013	3.77	PCI/G	90.941	4.55
3A005-4	2	3	11/21/2013	0.939	PCI/G	22.651	1.13
3A006	0	0.5	8/25/2000	3.92	MG/KG	32.131	1.61
3A006-1	0.5	2	11/21/2013	1.1	PCI/G	26.534	1.33
3A006-1	2	3	11/21/2013	1.06	PCI/G	25.570	1.28
3A006-1	0	0.5	11/21/2013	1.49	PCI/G	35.942	1.80
3A006-2	0.5	2	11/21/2013	0.88	PCI/G	21.228	1.06
3A006-2	2	3	11/21/2013	0.528	PCI/G	12.737	0.64
3A006-2	0	0.5	11/21/2013	1.13	PCI/G	27.258	1.36
3A006-3	0.5	2	11/21/2013	0.838	PCI/G	20.214	1.01
3A006-3	2	3	11/21/2013	0.871	PCI/G	21.010	1.05
3A006-3	0	0.5	11/21/2013	1.27	PCI/G	30.635	1.53

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
3A006-4	0.5	2	11/21/2013	0.841	PCI/G	20.287	1.01
3A006-4	2	3	11/21/2013	1.12	PCI/G	27.017	1.35
3A006-4	0	0.5	11/21/2013	0.977	PCI/G	23.567	1.18
3A007	0	0.5	8/25/2000	4.26	MG/KG	34.918	1.75
3A007-1	0.5	2	11/21/2013	0.627	PCI/G	15.125	0.76
3A007-1	0	0.5	11/21/2013	1.67	PCI/G	40.284	2.01
3A007-2	0	0.5	11/21/2013	1.23	PCI/G	29.670	1.48
3A007-2	0.5	2	11/21/2013	1.01	PCI/G	24.363	1.22
3A007-2	2	3	11/21/2013	0.583	PCI/G	14.063	0.70
3A007-3	0.5	2	11/21/2013	0.858	PCI/G	20.697	1.03
3A007-3	2	3	11/21/2013	0.697	PCI/G	16.813	0.84
3A007-3	0	0.5	11/21/2013	1.28	PCI/G	30.876	1.54
3A008	0	0.5	8/25/2000	3.33	MG/KG	27.295	1.36
3A009	0	0.5	8/25/2000	2.78	MG/KG	22.787	1.14
3A010	0	0.5	8/25/2000	3.37	MG/KG	27.623	1.38
3A011	0	0.5	8/25/2000	3.06	MG/KG	25.082	1.25
3A012	0	0.5	8/25/2000	4.26	MG/KG	34.918	1.75
3A013	0	0.5	8/25/2000	3.95	MG/KG	32.377	1.62
3A013-1	0.5	2	12/2/2013	1	PCI/G	24.122	1.21
3A013-1	2	3	12/2/2013	0.848	PCI/G	20.456	1.02
3A013-1	0	0.5	12/2/2013	1.28	PCI/G	30.876	1.54
3A013-2	0.5	2	12/2/2013	0.705	PCI/G	17.006	0.85
3A013-2	0	0.5	12/2/2013	1.4	PCI/G	33.771	1.69
3A014	0	0.5	8/25/2000	2.95	MG/KG	24.180	1.21
3A015	0	0.5	8/25/2000	4.6	MG/KG	37.705	1.89
3A016	0	0.5	8/25/2000	5.36	MG/KG	43.934	2.20
3A017	5	5	9/17/2003	1.15	MG/KG	9.426	0.47
3A017	0	0.5	9/8/2001	3.45	MG/KG	28.279	1.41
3A017-1	0.5	2	11/21/2013	0.662	PCI/G	15.969	0.80
3A017-1	2	3	11/21/2013	0.728	PCI/G	17.561	0.88
3A017-1	0	0.5	11/21/2013	0.603	PCI/G	14.546	0.73
3A017-2	0.5	2	11/21/2013	1.25	PCI/G	30.153	1.51
3A017-2	2	3	11/21/2013	1.13	PCI/G	27.258	1.36
3A017-2	0	0.5	11/21/2013	0.84	PCI/G	20.263	1.01
3A017-3	0.5	2	11/21/2013	1.88	PCI/G	45.350	2.27
3A017-3	2	3	11/21/2013	0.872	PCI/G	21.035	1.05
3A017-3	0	0.5	11/21/2013	1.09	PCI/G	26.293	1.31
3A017-4	0.5	2	11/21/2013	1.11	PCI/G	26.776	1.34
3A017-4	2	3	11/21/2013	0.801	PCI/G	19.322	0.97
3A017-4	0	0.5	11/21/2013	0.886	PCI/G	21.372	1.07
3A017-5	0.5	2	6/20/2014	2.11	PCI/G	50.898	2.54
3A017-5	2	3	6/20/2014	1.12	PCI/G	27.017	1.35
3A017-5	0	0.5	6/20/2014	0.881	PCI/G	21.252	1.06
3A017-6	0.5	2	6/20/2014	0.975	PCI/G	23.519	1.18
3A017-6	2	3	6/20/2014	0.682	PCI/G	16.451	0.82
3A017-6	0	0.5	6/20/2014	0.976	PCI/G	23.543	1.18
3A017-7	0.5	2	6/20/2014	1.89	PCI/G	45.591	2.28
3A017-7	2	3	6/20/2014	1.25	PCI/G	30.153	1.51
3A017-7	0	0.5	6/20/2014	1.39	PCI/G	33.530	1.68
3A020	2	2	11/16/2001	4.13	MG/KG	33.852	1.69
3A020	5	5	9/22/2003	0.6745	PCI/G	16.270	0.81

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
3A020	0	0.5	11/16/2001	3.41	MG/KG	27.951	1.40
3A020-1	0.5	2	11/20/2013	0.792	PCI/G	19.105	0.96
3A020-1	2	3	11/20/2013	1.85	PCI/G	44.626	2.23
3A020-1	0	0.5	11/20/2013	0.742	PCI/G	17.899	0.89
3A020-3	0.5	2	11/21/2013	0.942	PCI/G	22.723	1.14
3A020-3	2	3	11/21/2013	1.13	PCI/G	27.258	1.36
3A020-3	0	0.5	11/21/2013	1.15	PCI/G	27.741	1.39
3A020-4	0.5	2	11/21/2013	2.85	PCI/G	68.748	3.44
3A020-4	2	3	11/21/2013	0.647	PCI/G	15.607	0.78
3A020-4	0	0.5	11/21/2013	0.951	PCI/G	22.940	1.15
3A020-5	0.5	2	6/20/2014	2.15	PCI/G	51.863	2.59
3A020-5	2	3	6/20/2014	0.724	PCI/G	17.464	0.87
3A020-5	0	0.5	6/20/2014	1.02	PCI/G	24.605	1.23
3A021	0	0.5	11/16/2001	4.8	MG/KG	39.344	1.97
3A022	0	0.5	11/17/2001	3.44	MG/KG	28.197	1.41
3A023	0	0.5	11/16/2001	3.73	MG/KG	30.574	1.53
3A023-1	0.5	2	11/21/2013	1.1	PCI/G	26.534	1.33
3A023-1	2	3	11/21/2013	0.638	PCI/G	15.390	0.77
3A023-1	0	0.5	11/21/2013	1.32	PCI/G	31.841	1.59
3A023-2	0.5	2	11/21/2013	0.635	PCI/G	15.318	0.77
3A023-2	2	3	11/21/2013	0.627	PCI/G	15.125	0.76
3A023-2	0	0.5	11/21/2013	0.652	PCI/G	15.728	0.79
3A023-3	0.5	2	11/21/2013	0.764	PCI/G	18.429	0.92
3A023-3	2	3	11/21/2013	0.718	PCI/G	17.320	0.87
3A023-3	0	0.5	11/21/2013	0.753	PCI/G	18.164	0.91
3A024	0	0.5	11/16/2001	4.63	MG/KG	37.951	1.90
3A025	0	0.5	11/16/2001	2.4	MG/KG	19.672	0.98
3B001	0	0.5	8/26/2000	4.77	MG/KG	39.098	1.95
3B002	0	0.5	8/26/2000	2.6	MG/KG	21.311	1.07
3B003	0	0.5	8/27/2000	6.25	MG/KG	51.230	2.56
3B003-1	0.5	2	12/12/2013	0.696	PCI/G	16.789	0.84
3B003-1	2	3	12/12/2013	0.634	PCI/G	15.293	0.76
3B003-1	0	0.5	12/12/2013	1.16	PCI/G	27.982	1.40
3B003-2	0.5	2	12/12/2013	1.44	PCI/G	34.736	1.74
3B003-2	2	3	12/12/2013	0.772	PCI/G	18.622	0.93
3B003-2	0	0.5	12/12/2013	1.74	PCI/G	41.973	2.10
3B003-3	0.5	2	6/23/2014	1.38	PCI/G	33.289	1.66
3B003-3	2	3	6/23/2014	1	PCI/G	24.122	1.21
3B003-3	0	0.5	6/23/2014	1.83	PCI/G	44.144	2.21
3B003-4	0.5	2	6/23/2014	0.719	PCI/G	17.344	0.87
3B003-4	0	0.5	6/23/2014	2.1	PCI/G	50.657	2.53
3B004	0	0.5	8/27/2000	5.39	MG/KG	44.180	2.21
3B004-1	0.5	2	12/11/2013	1.16	PCI/G	27.982	1.40
3B004-1	2	3	12/11/2013	0.808	PCI/G	19.491	0.97
3B004-1	0	0.5	12/11/2013	1.22	PCI/G	29.429	1.47
3B004-2	0.5	2	12/11/2013	0.946	PCI/G	22.820	1.14
3B004-2	2	3	12/11/2013	1.04	PCI/G	25.087	1.25
3B004-2	0	0.5	12/11/2013	0.805	PCI/G	19.418	0.97
3B004-3	0.5	2	12/11/2013	1.25	PCI/G	30.153	1.51
3B004-3	2	3	12/11/2013	1.62	PCI/G	39.078	1.95
3B004-3	0	0.5	12/11/2013	1.36	PCI/G	32.806	1.64

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Predicted Total Uranium Concentrations in Water
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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
3B005	0	0.5	8/27/2000	5.44	MG/KG	44.590	2.23
3B006	0	0.5	8/27/2000	2.75	MG/KG	22.541	1.13
3B007	0	0.5	8/27/2000	7.17	MG/KG	58.770	2.94
3B008	0	0.5	8/27/2000	3.89	MG/KG	31.885	1.59
3B009	0	0.5	8/27/2000	3.5	MG/KG	28.689	1.43
3B010	0	0.5	8/27/2000	5.62	MG/KG	46.066	2.30
3B011	1.5	2	11/15/2001	2.82	MG/KG	23.115	1.16
3B011	0	0.5	11/15/2001	5.51	MG/KG	45.164	2.26
3B011-1	0.5	2	12/12/2013	0.704	PCI/G	16.982	0.85
3B011-1	0	0.5	12/12/2013	2.32	PCI/G	55.963	2.80
3B011-2	0.5	2	12/12/2013	1.05	PCI/G	25.328	1.27
3B011-2	2	3	12/12/2013	0.601	PCI/G	14.497	0.72
3B011-2	0	0.5	12/12/2013	1.25	PCI/G	30.153	1.51
3B011-3	0.5	2	6/20/2014	0.952	PCI/G	22.964	1.15
3B011-3	2	3	6/20/2014	0.684	PCI/G	16.500	0.82
3B011-3	0	0.5	6/20/2014	1.58	PCI/G	38.113	1.91
3B011-4	0.5	2	6/20/2014	0.705	PCI/G	17.006	0.85
3B011-4	2	3	6/20/2014	0.633	PCI/G	15.269	0.76
3B011-4	0	0.5	6/20/2014	4.44	PCI/G	107.103	5.36
3B012	0	0.5	11/15/2001	2.13	MG/KG	17.459	0.87
3B013	1.5	2	11/15/2001	2.8	MG/KG	22.951	1.15
3B013	0	0.5	11/15/2001	2.15	MG/KG	17.623	0.88
3B013-1	0.5	2	12/12/2013	1.28	PCI/G	30.876	1.54
3B013-1	0	0.5	12/12/2013	0.856	PCI/G	20.649	1.03
3B013-2	0.5	2	12/12/2013	1.08	PCI/G	26.052	1.30
3B013-2	2	3	12/12/2013	1.26	PCI/G	30.394	1.52
3B013-2	0	0.5	12/12/2013	1.3	PCI/G	31.359	1.57
3B013-3	0.5	2	12/12/2013	0.84	PCI/G	20.263	1.01
3B013-3	2	3	12/12/2013	0.581	PCI/G	14.015	0.70
3B013-3	0	0.5	12/12/2013	3.26	PCI/G	78.638	3.93
3B013-4	0.5	2	12/12/2013	0.975	PCI/G	23.519	1.18
3B013-4	0	0.5	12/12/2013	1.69	PCI/G	40.767	2.04
3B014	0	0.5	11/15/2001	4.4	MG/KG	36.066	1.80
3B015	1	1.25	11/15/2001	24.4	MG/KG	200.000	10.00
3B015	5	5	9/17/2003	1.176	PCI/G	28.368	1.42
3B015	0	0.5	11/15/2001	16.9	MG/KG	138.525	6.93
3B015-1	0.5	2	12/13/2013	0.834	PCI/G	20.118	1.01
3B015-1	2	3	12/13/2013	0.782	PCI/G	18.864	0.94
3B015-1	0	0.5	12/13/2013	1.19	PCI/G	28.705	1.44
3B015-2	0.5	2	12/13/2013	1.13	PCI/G	27.258	1.36
3B015-2	2	3	12/13/2013	0.781	PCI/G	18.839	0.94
3B015-2	0	0.5	12/13/2013	1.15	PCI/G	27.741	1.39
3B015-3	0.5	2	12/13/2013	0.635	PCI/G	15.318	0.77
3B015-3	2	3	12/13/2013	0.718	PCI/G	17.320	0.87
3B015-3	0	0.5	12/13/2013	2.18	PCI/G	52.586	2.63
3B015-4	0.5	2	12/13/2013	0.831	PCI/G	20.046	1.00
3B015-4	2	3	12/13/2013	0.647	PCI/G	15.607	0.78
3B015-4	0	0.5	12/13/2013	0.971	PCI/G	23.423	1.17
3B016	0	0.5	11/15/2001	4.07	MG/KG	33.361	1.67
3B017	0	0.5	11/15/2001	2.65	MG/KG	21.721	1.09
3B018	0	0.5	11/15/2001	2.05	MG/KG	16.803	0.84

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
3B019	0	0.5	11/15/2001	2.05	MG/KG	16.803	0.84
3C001	0	0.5	8/26/2000	2.74	MG/KG	22.459	1.12
3C002	0	0.5	8/26/2000	4.19	MG/KG	34.344	1.72
3C003	0	0.5	8/26/2000	2.32	MG/KG	19.016	0.95
3C004	0	0.5	8/26/2000	3.34	MG/KG	27.377	1.37
3C005	0	0.5	8/26/2000	12.4	MG/KG	101.639	5.08
3C006	0	0.5	8/26/2000	5.71	MG/KG	46.803	2.34
3C006-1	0.5	2	12/10/2013	0.767	PCI/G	18.502	0.93
3C006-1	2	3	12/10/2013	0.835	PCI/G	20.142	1.01
3C006-1	0	0.5	12/10/2013	0.877	PCI/G	21.155	1.06
3C006-2	0.5	2	12/10/2013	0.651	PCI/G	15.704	0.79
3C006-2	2	3	12/10/2013	0.755	PCI/G	18.212	0.91
3C006-2	0	0.5	12/10/2013	1.87	PCI/G	45.109	2.26
3C006-3	0.5	2	12/10/2013	1.48	PCI/G	35.701	1.79
3C006-3	2	3	12/10/2013	1	PCI/G	24.122	1.21
3C006-3	0	0.5	12/10/2013	0.601	PCI/G	14.497	0.72
3C007	0	0.5	8/26/2000	9.41	MG/KG	77.131	3.86
3C007-1	0.5	2	12/10/2013	0.676	PCI/G	16.307	0.82
3C007-1	2	3	12/10/2013	1.2	PCI/G	28.947	1.45
3C007-1	0	0.5	12/10/2013	0.581	PCI/G	14.015	0.70
3C007-2	0.5	2	12/10/2013	0.901	PCI/G	21.734	1.09
3C007-2	2	3	12/10/2013	0.769	PCI/G	18.550	0.93
3C007-2	0	0.5	12/10/2013	0.833	PCI/G	20.094	1.00
3C008	0	0.5	8/26/2000	3.56	MG/KG	29.180	1.46
3C008-1	0.5	2	12/10/2013	0.784	PCI/G	18.912	0.95
3C008-1	2	3	12/10/2013	0.901	PCI/G	21.734	1.09
3C008-1	0	0.5	12/10/2013	0.629	PCI/G	15.173	0.76
3C008-2	0.5	2	12/10/2013	1.01	PCI/G	24.363	1.22
3C008-2	2	3	12/10/2013	0.819	PCI/G	19.756	0.99
3C008-2	0	0.5	12/10/2013	0.97	PCI/G	23.399	1.17
3C008-3	0.5	2	12/10/2013	5.57	PCI/G	134.361	6.72
3C008-3	2	3	12/10/2013	2.74	PCI/G	66.095	3.30
3C008-3	0	0.5	12/10/2013	7.78	PCI/G	187.671	9.38
3C009	0	0.5	8/26/2000	1.77	MG/KG	14.508	0.73
3C010	0	0.5	8/26/2000	20.9	MG/KG	171.311	8.57
3C011	0	0.5	8/26/2000	6.46	MG/KG	52.951	2.65
3C012	0	0.5	8/26/2000	3.81	MG/KG	31.230	1.56
3C013	0	0.5	8/26/2000	3.24	MG/KG	26.557	1.33
3C014	1.5	2	11/16/2001	7.19	MG/KG	58.934	2.95
3C014	5	5	9/17/2003	0.581	PCI/G	14.015	0.70
3C014	0	0.5	11/16/2001	15.4	MG/KG	126.230	6.31
3C014-1	0.5	2	12/11/2013	0.61	PCI/G	14.715	0.74
3C014-1	2	3	12/11/2013	0.848	PCI/G	20.456	1.02
3C014-1	0	0.5	12/11/2013	1.22	PCI/G	29.429	1.47
3C014-2	0.5	2	12/11/2013	0.784	PCI/G	18.912	0.95
3C014-2	2	3	12/11/2013	0.881	PCI/G	21.252	1.06
3C014-2	0	0.5	12/11/2013	1.91	PCI/G	46.073	2.30
3C014-3	0.5	2	12/11/2013	2.6	PCI/G	62.718	3.14
3C014-3	2	3	12/11/2013	1.19	PCI/G	28.705	1.44
3C014-3	0	0.5	12/11/2013	4.03	PCI/G	97.212	4.86
3C014-4	0.5	2	12/11/2013	0.993	PCI/G	23.953	1.20

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
3C014-4	2	3	12/11/2013	0.805	PCI/G	19.418	0.97
3C014-4	0	0.5	12/11/2013	1.41	PCI/G	34.012	1.70
3C014-5	0.5	2	6/23/2014	1.37	PCI/G	33.047	1.65
3C014-5	2	3	6/23/2014	0.958	PCI/G	23.109	1.16
3C014-5	0	0.5	6/23/2014	1.08	PCI/G	26.052	1.30
3C014-6	0.5	2	6/23/2014	3.67	PCI/G	88.528	4.43
3C014-6	2	3	6/23/2014	2.26	PCI/G	54.516	2.73
3C014-6	0	0.5	6/23/2014	4.04	PCI/G	97.454	4.87
3C015	1	1.5	11/16/2001	54.8	MG/KG	449.180	22.46
3C015	5	5	9/17/2003	1.558	PCI/G	37.582	1.88
3C015	0	0.5	11/16/2001	330	MG/KG	2704.918	135.25
3C016	0	0.5	11/17/2001	3.6	MG/KG	29.508	1.48
3D001	1	1	11/16/2001	3.24	MG/KG	26.557	1.33
3D001	5	5	10/1/2003	0.899	PCI/G	21.686	1.08
3D001	0	0.5	11/16/2001	6.02	MG/KG	49.344	2.47
3D001-1	0.5	2	12/17/2013	0.846	PCI/G	20.407	1.02
3D001-1	2	3	12/17/2013	0.698	PCI/G	16.837	0.84
3D001-1	0	0.5	12/17/2013	1.31	PCI/G	31.600	1.58
3D001-2	0.5	2	12/17/2013	0.703	PCI/G	16.958	0.85
3D001-2	2	3	12/17/2013	0.695	PCI/G	16.765	0.84
3D001-2	0	0.5	12/17/2013	1.06	PCI/G	25.570	1.28
3D001-3	0.5	2	12/17/2013	0.64	PCI/G	15.438	0.77
3D001-3	2	3	12/17/2013	0.79	PCI/G	19.057	0.95
3D001-3	0	0.5	12/17/2013	2.35	PCI/G	56.687	2.83
3D001-4	0.5	2	12/17/2013	0.962	PCI/G	23.206	1.16
3D001-4	2	3	12/17/2013	0.691	PCI/G	16.668	0.83
3D001-4	0	0.5	12/17/2013	0.828	PCI/G	19.973	1.00
3D002	5	5	9/22/2003	1.89	MG/KG	15.492	0.77
3D002	0	0.5	11/16/2001	3.61	MG/KG	29.590	1.48
3D003	1.5	2	11/17/2001	2.17	MG/KG	17.787	0.89
3D004	0	0.5	11/17/2001	4.31	MG/KG	35.328	1.77
3D004-1	0.5	2	12/17/2013	0.793	PCI/G	19.129	0.96
3D004-1	2	3	12/17/2013	1.22	PCI/G	29.429	1.47
3D004-1	0	0.5	12/17/2013	1.13	PCI/G	27.258	1.36
3D004-2	0.5	2	12/17/2013	3.22	PCI/G	77.673	3.88
3D004-2	2	3	12/17/2013	1.06	PCI/G	25.570	1.28
3D004-2	0	0.5	12/17/2013	4.77	PCI/G	115.063	5.75
3D004-3	0.5	2	12/17/2013	0.897	PCI/G	21.638	1.08
3D004-3	2	3	12/17/2013	1.02	PCI/G	24.605	1.23
3D004-3	0	0.5	12/17/2013	1.07	PCI/G	25.811	1.29
3D004-4	0.5	2	12/17/2013	0.738	PCI/G	17.802	0.89
3D004-4	0	0.5	12/17/2013	0.696	PCI/G	16.789	0.84
3D004-5	0.5	2	6/23/2014	1.25	PCI/G	30.153	1.51
3D004-5	2	3	6/23/2014	1.17	PCI/G	28.223	1.41
3D004-5	0	0.5	6/23/2014	1	PCI/G	24.122	1.21
3D005	0	0.5	11/16/2001	6.72	MG/KG	55.082	2.75
3D006	5	5	9/22/2003	0.672	MG/KG	5.508	0.28
3D006	0	0.5	11/17/2001	1270	MG/KG	10409.836	520.49
3D006-1	0.5	2	12/11/2013	0.999	PCI/G	24.098	1.20
3D006-1	2	3	12/11/2013	0.933	PCI/G	22.506	1.13
3D006-1	0	0.5	12/11/2013	1.43	PCI/G	34.495	1.72

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3D006-2	0.5	2	12/11/2013	0.689	PCI/G	16.620	0.83
3D006-2	2	3	12/11/2013	0.735	PCI/G	17.730	0.89
3D006-2	0	0.5	12/11/2013	1.7	PCI/G	41.008	2.05
3D006-3	0.5	2	12/11/2013	0.924	PCI/G	22.289	1.11
3D006-3	2	3	12/11/2013	0.773	PCI/G	18.646	0.93
3D006-3	0	0.5	12/11/2013	2.24	PCI/G	54.034	2.70
3D006-4	0.5	2	12/11/2013	3.01	PCI/G	72.608	3.63
3D006-4	2	3	12/11/2013	0.558	PCI/G	13.460	0.67
3D006-4	0	0.5	12/11/2013	6.86	PCI/G	165.478	8.27
3D007	0	0.5	11/17/2001	5630	MG/KG	46147.541	2307.38
3D007-1	0.5	2	12/10/2013	0.918	PCI/G	22.144	1.11
3D007-1	2	3	12/10/2013	1.1	PCI/G	26.534	1.33
3D007-1	0	0.5	12/10/2013	1.1	PCI/G	26.534	1.33
3D007-2	0.5	2	12/10/2013	1.01	PCI/G	24.363	1.22
3D007-2	2	3	12/10/2013	0.727	PCI/G	17.537	0.88
3D007-2	0	0.5	12/10/2013	1.58	PCI/G	38.113	1.91
3D007-3	0.5	2	12/10/2013	0.858	PCI/G	20.697	1.03
3D007-3	2	3	12/10/2013	0.828	PCI/G	19.973	1.00
3D007-3	0	0.5	12/10/2013	1.42	PCI/G	34.254	1.71
3D008	0	0.5	11/16/2001	15	MG/KG	122.951	6.15
3D009	0	0.5	11/16/2001	20.2	MG/KG	165.574	8.28
404-1	0.5	2	11/25/2013	0.776	PCI/G	18.719	0.94
404-1	2	3	11/25/2013	1.53	PCI/G	36.907	1.85
404-1	0	0.5	11/25/2013	1	PCI/G	24.122	1.21
404-2	0.5	2	11/25/2013	1.24	PCI/G	29.912	1.50
404-2	2	3	11/25/2013	4.55	PCI/G	109.756	5.49
404-2	0	0.5	11/25/2013	1.14	PCI/G	27.499	1.37
404-3	0.5	2	11/25/2013	3.5	PCI/G	84.428	4.22
404-3	2	3	11/25/2013	1.19	PCI/G	28.705	1.44
404-3	0	0.5	11/25/2013	0.933	PCI/G	22.506	1.13
4A001	0	0.5	8/28/2000	3.34	MG/KG	27.377	1.37
4A002	0	0.5	8/28/2000	2.04	MG/KG	16.721	0.84
4A003	0	0.5	8/28/2000	2.48	MG/KG	20.328	1.02
4A003-1	0.5	2	11/26/2013	0.693	PCI/G	16.717	0.84
4A003-1	2	3	11/26/2013	0.933	PCI/G	22.506	1.13
4A003-1	0	0.5	11/26/2013	0.691	PCI/G	16.668	0.83
4A003-2	0.5	2	11/26/2013	0.634	PCI/G	15.293	0.76
4A003-2	2	3	11/26/2013	0.606	PCI/G	14.618	0.73
4A003-2	0	0.5	11/26/2013	0.709	PCI/G	17.103	0.86
4A003-3	0.5	2	6/26/2014	0.622	PCI/G	15.004	0.75
4A003-3	2	3	6/26/2014	0.702	PCI/G	16.934	0.85
4A003-3	0	0.5	6/26/2014	0.73	PCI/G	17.609	0.88
4A004	0	0.5	8/28/2000	2.57	MG/KG	21.066	1.05
4A005	0	0.5	8/28/2000	3.32	MG/KG	27.213	1.36
4A006	0	0.5	8/28/2000	3.49	MG/KG	28.607	1.43
4A007	0	0.5	8/28/2000	6.11	MG/KG	50.082	2.50
4A007-1	0.5	2	11/25/2013	0.632	PCI/G	15.245	0.76
4A007-1	2	3	11/25/2013	0.644	PCI/G	15.535	0.78
4A007-1	0	0.5	11/25/2013	0.74	PCI/G	17.850	0.89
4A007-2	0.5	2	11/25/2013	2.55	PCI/G	61.512	3.08
4A007-2	2	3	11/25/2013	3.42	PCI/G	82.498	4.12

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
4A007-2	0	0.5	11/25/2013	0.78	PCI/G	18.815	0.94
4A008	0	0.5	8/28/2000	2.16	MG/KG	17.705	0.89
4A009	0	0.5	8/28/2000	1.97	MG/KG	16.148	0.81
4A010	0	0.5	8/28/2000	2.58	MG/KG	21.148	1.06
4A011	0	0.5	8/28/2000	3.6	MG/KG	29.508	1.48
4A012	0	0.5	8/28/2000	8.69	MG/KG	71.230	3.56
4A013	1	1.5	10/5/2001	4.55	MG/KG	37.295	1.86
4A013	1.5	2	10/5/2001	5.05	MG/KG	41.393	2.07
4A013	0	0.5	10/5/2001	4.05	MG/KG	33.197	1.66
4A013-1	0.5	2	12/2/2013	3.57	PCI/G	86.116	4.31
4A013-1	2	3	12/2/2013	4.47	PCI/G	107.826	5.39
4A013-1	0	0.5	12/2/2013	3.27	PCI/G	78.880	3.94
4A013-2	2	3	12/2/2013	0.963	PCI/G	23.230	1.16
4A013-2	0	0.5	12/2/2013	0.721	PCI/G	17.392	0.87
4A013-3	0.5	2	12/2/2013	0.854	PCI/G	20.600	1.03
4A013-3	2	3	12/2/2013	0.769	PCI/G	18.550	0.93
4A013-3	0	0.5	12/2/2013	0.709	PCI/G	17.103	0.86
4A013-4	0.5	2	12/2/2013	0.756	PCI/G	18.236	0.91
4A013-4	2	3	12/2/2013	1.58	PCI/G	38.113	1.91
4A013-4	0	0.5	12/2/2013	0.727	PCI/G	17.537	0.88
4A013-5	0.5	2	6/27/2014	0.696	PCI/G	16.789	0.84
4A013-5	2	3	6/27/2014	1.07	PCI/G	25.811	1.29
4A013-5	0	0.5	6/27/2014	0.94	PCI/G	22.675	1.13
4A013-6	0.5	2	6/27/2014	1.03	PCI/G	24.846	1.24
4A013-6	2	3	6/27/2014	1.45	PCI/G	34.977	1.75
4A013-6	0	0.5	6/27/2014	1.36	PCI/G	32.806	1.64
4A014	0	0.5	10/5/2001	11.4	MG/KG	93.443	4.67
4A014-1	0	0.5	11/26/2013	0.952	PCI/G	22.964	1.15
4A015	0	0.5	10/5/2001	10.5	MG/KG	86.066	4.30
4A016	0	0.5	10/5/2001	1.77	MG/KG	14.508	0.73
4A017	0	0.5	10/6/2001	2.2	MG/KG	18.033	0.90
4A018	0	0.5	10/6/2001	1.84	MG/KG	15.082	0.75
4A019	0	0.5	11/17/2001	1.41	MG/KG	11.557	0.58
4A020	0	0.5	11/13/2001	1.54	MG/KG	12.623	0.63
4B001	0	0.5	8/28/2000	8.97	MG/KG	73.525	3.68
4B002	0	0.5	8/28/2000	5.07	MG/KG	41.557	2.08
4B003	0	0.5	8/28/2000	2.55	MG/KG	20.902	1.05
4B004	0	0.5	8/28/2000	2.65	MG/KG	21.721	1.09
4B005	0	0.5	8/28/2000	2.14	MG/KG	17.541	0.88
4B006	0	0.5	8/28/2000	2.04	MG/KG	16.721	0.84
4B007	0	0.5	10/4/2001	1.88	MG/KG	15.410	0.77
4B008	0	0.5	10/4/2001	2.22	MG/KG	18.197	0.91
4B009	1.5	2	10/4/2001	4.39	MG/KG	35.984	1.80
4B009	0	0.5	10/4/2001	34.3	MG/KG	281.148	14.06
4B009-1	0.5	2	11/27/2013	1.12	PCI/G	27.017	1.35
4B009-1	2	3	11/27/2013	1.07	PCI/G	25.811	1.29
4B009-1	0	0.5	11/27/2013	12.5	PCI/G	301.527	15.08
4B009-2	0.5	2	11/27/2013	1.06	PCI/G	25.570	1.28
4B009-2	2	3	11/27/2013	0.698	PCI/G	16.837	0.84
4B009-2	0	0.5	11/27/2013	0.795	PCI/G	19.177	0.96
4B009-3	0.5	2	11/27/2013	0.623	PCI/G	15.028	0.75

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
4B009-3	2	3	11/27/2013	0.722	PCI/G	17.416	0.87
4B009-3	0	0.5	11/27/2013	0.684	PCI/G	16.500	0.82
4B009-4	0.5	2	12/2/2013	0.525	PCI/G	12.664	0.63
4B009-4	2	3	12/2/2013	0.789	PCI/G	19.032	0.95
4B009-4	0	0.5	12/2/2013	0.692	PCI/G	16.693	0.83
4B010	0	0.5	10/4/2001	6.6	MG/KG	54.098	2.70
4B010-1	0.5	2	11/27/2013	2.32	PCI/G	55.963	2.80
4B010-1	2	3	11/27/2013	2.09	PCI/G	50.415	2.52
4B010-1	0	0.5	11/27/2013	5.63	PCI/G	135.808	6.79
4B010-2	0.5	2	11/27/2013	0.654	PCI/G	15.776	0.79
4B010-2	2	3	11/27/2013	0.606	PCI/G	14.618	0.73
4B010-2	0	0.5	11/27/2013	0.601	PCI/G	14.497	0.72
4B010-3	0.5	2	11/27/2013	0.838	PCI/G	20.214	1.01
4B010-3	2	3	11/27/2013	0.737	PCI/G	17.778	0.89
4B010-3	0	0.5	11/27/2013	0.872	PCI/G	21.035	1.05
4B010-4	0.5	2	6/30/2014	0.805	PCI/G	19.418	0.97
4B010-4	2	3	6/30/2014	0.636	PCI/G	15.342	0.77
4B010-4	0	0.5	6/30/2014	0.755	PCI/G	18.212	0.91
4B011	1.5	2	10/5/2001	2.1	MG/KG	17.213	0.86
4B012	0	0.5	10/4/2001	2.65	MG/KG	21.721	1.09
4B013	1.5	2	10/4/2001	2.02	MG/KG	16.557	0.83
4B013	0	0.5	10/4/2001	1.96	MG/KG	16.066	0.80
4B014	1	1.5	10/4/2001	2.11	MG/KG	17.295	0.86
4B014	0	0.5	10/4/2001	4.28	MG/KG	35.082	1.75
4B014-1	0.5	2	11/26/2013	0.81	PCI/G	19.539	0.98
4B014-1	2	3	11/26/2013	0.928	PCI/G	22.385	1.12
4B014-1	0	0.5	11/26/2013	0.868	PCI/G	20.938	1.05
4B014-2	0.5	2	11/26/2013	0.93	PCI/G	22.434	1.12
4B014-2	2	3	11/26/2013	0.908	PCI/G	21.903	1.10
4B014-2	0	0.5	11/26/2013	0.819	PCI/G	19.756	0.99
4B014-3	0.5	2	11/27/2013	3.27	PCI/G	78.880	3.94
4B014-3	2	3	11/27/2013	0.638	PCI/G	15.390	0.77
4B014-3	0	0.5	11/27/2013	0.814	PCI/G	19.635	0.98
4B014-4	0.5	2	11/26/2013	0.609	PCI/G	14.690	0.73
4B014-4	2	3	11/26/2013	0.613	PCI/G	14.787	0.74
4B014-4	0	0.5	11/26/2013	0.584	PCI/G	14.087	0.70
4B014-5	0.5	2	6/27/2014	0.827	PCI/G	19.949	1.00
4B014-5	2	3	6/27/2014	0.817	PCI/G	19.708	0.99
4B014-5	0	0.5	6/27/2014	0.819	PCI/G	19.756	0.99
4B014-6	0.5	2	6/27/2014	0.933	PCI/G	22.506	1.13
4B014-6	2	3	6/27/2014	1.19	PCI/G	28.705	1.44
4B014-6	0	0.5	6/27/2014	1.9	PCI/G	45.832	2.29
4B014-7	0.5	2	6/27/2014	0.811	PCI/G	19.563	0.98
4B014-7	2	3	6/27/2014	0.816	PCI/G	19.684	0.98
4B014-7	0	0.5	6/27/2014	1.57	PCI/G	37.872	1.89
4B014-8	0.5	2	6/30/2014	0.707	PCI/G	17.054	0.85
4B014-8	2	3	6/30/2014	0.852	PCI/G	20.552	1.03
4B014-8	0	0.5	6/30/2014	0.557	PCI/G	13.436	0.67
4B015	0	0.5	10/7/2001	3.88	MG/KG	31.803	1.59
4B016	0	0.5	10/4/2001	7.76	MG/KG	63.607	3.18
4B017	0	0.5	10/4/2001	2.47	MG/KG	20.246	1.01

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
4B017-1	0.5	2	11/26/2013	0.821	PCI/G	19.804	0.99
4B017-1	2	3	11/26/2013	0.894	PCI/G	21.565	1.08
4B017-1	0	0.5	11/26/2013	0.866	PCI/G	20.890	1.04
4B017-2	0.5	2	11/26/2013	1.13	PCI/G	27.258	1.36
4B017-2	2	3	11/26/2013	0.718	PCI/G	17.320	0.87
4B017-2	0	0.5	11/26/2013	1.35	PCI/G	32.565	1.63
4B018	1.5	2	10/4/2001	2.21	MG/KG	18.115	0.91
4B019	0	0.5	10/4/2001	3.27	MG/KG	26.803	1.34
4B020	0	0.5	10/4/2001	2.43	MG/KG	19.918	1.00
4B021	1.5	2	10/4/2001	2.75	MG/KG	22.541	1.13
4B021	0	0.5	10/4/2001	3.91	MG/KG	32.049	1.60
4B021-1	0.5	2	11/27/2013	0.835	PCI/G	20.142	1.01
4B021-1	2	3	11/27/2013	0.524	PCI/G	12.640	0.63
4B021-1	0	0.5	11/27/2013	0.677	PCI/G	16.331	0.82
4B021-2	0.5	2	11/27/2013	0.607	PCI/G	14.642	0.73
4B021-2	2	3	11/27/2013	0.618	PCI/G	14.908	0.75
4B021-2	0	0.5	11/27/2013	0.552	PCI/G	13.315	0.67
4B021-3	0.5	2	11/27/2013	0.695	PCI/G	16.765	0.84
4B021-3	2	3	11/27/2013	0.738	PCI/G	17.802	0.89
4B021-3	0	0.5	11/27/2013	0.703	PCI/G	16.958	0.85
4B021-4	0.5	2	11/27/2013	0.634	PCI/G	15.293	0.76
4B021-4	2	3	11/27/2013	0.553	PCI/G	13.340	0.67
4B021-4	0	0.5	11/27/2013	0.941	PCI/G	22.699	1.13
4C001	0	0.5	8/29/2000	2.07	MG/KG	16.967	0.85
4C002	0	0.5	10/5/2001	7.43	MG/KG	60.902	3.05
4C002-1	0.5	2	12/9/2013	1.62	PCI/G	39.078	1.95
4C002-1	2	3	12/9/2013	0.598	PCI/G	14.425	0.72
4C002-1	0	0.5	12/9/2013	3.08	PCI/G	74.296	3.71
4C002-2	0.5	2	12/9/2013	0.687	PCI/G	16.572	0.83
4C002-2	2	3	12/9/2013	0.666	PCI/G	16.065	0.80
4C002-2	0	0.5	12/9/2013	1.2	PCI/G	28.947	1.45
4C002-3	0.5	2	12/9/2013	1.23	PCI/G	29.670	1.48
4C002-3	2	3	12/9/2013	0.605	PCI/G	14.594	0.73
4C002-3	0	0.5	12/9/2013	3.67	PCI/G	88.528	4.43
4C002-4	0.5	2	12/9/2013	0.567	PCI/G	13.677	0.68
4C002-4	2	3	12/9/2013	0.701	PCI/G	16.910	0.85
4C002-4	0	0.5	12/9/2013	0.881	PCI/G	21.252	1.06
4C003	0	0.5	10/5/2001	5.19	MG/KG	42.541	2.13
4C004	0	0.5	10/5/2001	4.15	MG/KG	34.016	1.70
4C005	0	0.5	10/5/2001	2.02	MG/KG	16.557	0.83
4C006	0	0.5	10/5/2001	2.42	MG/KG	19.836	0.99
4D001	14	14.5	9/12/2000	2.08	MG/KG	17.049	0.85
4D002	11.5	12	9/14/2000	1.96	MG/KG	16.066	0.80
4D003	14	14.5	9/13/2000	2.24	MG/KG	18.361	0.92
4D004	14	14.5	9/14/2000	2.54	MG/KG	20.820	1.04
4D005	15	15.5	9/13/2000	2.31	MG/KG	18.934	0.95
4D005	0	0.5	9/13/2000	2.12	MG/KG	17.377	0.87
4D006	14.5	15	9/14/2000	2.09	MG/KG	17.131	0.86
4D006	0	0.5	9/14/2000	2.17	MG/KG	17.787	0.89
4D007	0	0.5	8/28/2000	1.79	MG/KG	14.672	0.73
4D008	0	0.5	8/28/2000	2.4	MG/KG	19.672	0.98

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
4D009	0	0.5	8/28/2000	2.24	MG/KG	18.361	0.92
4D010	0	0.5	8/28/2000	2.56	MG/KG	20.984	1.05
4D011	0	0.5	8/28/2000	3.68	MG/KG	30.164	1.51
4D012	0	0.5	8/28/2000	2.92	MG/KG	23.934	1.20
4D013	0	0.5	8/28/2000	2.93	MG/KG	24.016	1.20
4D014	0	0.5	8/28/2000	2.9	MG/KG	23.770	1.19
4D015	0	0.5	8/28/2000	2	MG/KG	16.393	0.82
4D017	0	0.5	10/5/2001	3.97	MG/KG	32.541	1.63
4D018	0	0.5	10/5/2001	1.5	MG/KG	12.295	0.61
4D019	0	0.5	10/5/2001	2.4	MG/KG	19.672	0.98
4D020	0	0.5	10/5/2001	1.67	MG/KG	13.689	0.68
4F001	0	0.5	8/27/2000	2.03	MG/KG	16.639	0.83
4F002	0	0.5	8/27/2000	2.21	MG/KG	18.115	0.91
4F003	0	0.5	8/27/2000	2.14	MG/KG	17.541	0.88
4F004	0	0.5	8/27/2000	2.01	MG/KG	16.475	0.82
4F005	0	0.5	10/6/2001	2.38	MG/KG	19.508	0.98
4F006	0	0.5	10/6/2001	2.16	MG/KG	17.705	0.89
4F007	0	0.5	10/6/2001	1.99	MG/KG	16.311	0.82
4F008	0	0.5	10/6/2001	2.05	MG/KG	16.803	0.84
4F009	0	0.5	10/6/2001	1.87	MG/KG	15.328	0.77
4F010	0	0.5	11/14/2001	1.99	MG/KG	16.311	0.82
4F011	0	0.5	11/14/2001	2.22	MG/KG	18.197	0.91
4G001	0	0.5	10/6/2001	2.1	MG/KG	17.213	0.86
4G002	1	1.5	10/7/2001	1.91	MG/KG	15.656	0.78
4G002	1.5	2	10/7/2001	1.76	MG/KG	14.426	0.72
4G002	0	0.5	10/7/2001	4.09	MG/KG	33.525	1.68
4G002-1	0.5	2	11/8/2013	0.879	PCI/G	21.203	1.06
4G002-1	2	3	11/8/2013	0.587	PCI/G	14.160	0.71
4G002-1	0	0.5	11/8/2013	0.788	PCI/G	19.008	0.95
4G002-2	0.5	2	11/8/2013	0.855	PCI/G	20.624	1.03
4G002-2	2	3	11/8/2013	0.592	PCI/G	14.280	0.71
4G002-2	0	0.5	11/8/2013	0.774	PCI/G	18.671	0.93
4G002-3	0.5	2	11/8/2013	1.01	PCI/G	24.363	1.22
4G002-3	2	3	11/8/2013	0.704	PCI/G	16.982	0.85
4G002-3	0	0.5	11/8/2013	0.765	PCI/G	18.453	0.92
4G002-4	0.5	2	11/8/2013	0.734	PCI/G	17.706	0.89
4G002-4	1	2	11/8/2013	0.691	PCI/G	16.668	0.83
4G002-4	0	0.5	11/8/2013	0.914	PCI/G	22.048	1.10
503-1	0.5	2	11/20/2013	38.3	PCI/G	923.880	46.19
503-1	2	3	11/20/2013	11	PCI/G	265.344	13.27
503-1	0	0.5	11/20/2013	33.5	PCI/G	808.093	40.40
503-2	0.5	2	11/20/2013	7.18	PCI/G	173.197	8.66
503-2	2	3	11/20/2013	3.78	PCI/G	91.182	4.56
503-2	0	0.5	11/20/2013	6.04	PCI/G	145.698	7.28
503-3	0.5	2	11/20/2013	5.57	PCI/G	134.361	6.72
503-3	2	3	11/20/2013	1.68	PCI/G	40.525	2.03
503-3	0	0.5	11/20/2013	21	PCI/G	506.566	25.33
503-4	0.5	2	11/20/2013	4.86	PCI/G	117.234	5.86
503-4	2	3	11/20/2013	2.73	PCI/G	65.854	3.29
503-4	0	0.5	11/20/2013	4.05	PCI/G	97.695	4.88
504-1	0.5	2	11/19/2013	1.98	PCI/G	47.762	2.39

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
504-1	2	3	11/19/2013	0.978	PCI/G	23.592	1.18
504-1	0	0.5	11/19/2013	1.47	PCI/G	35.460	1.77
504-2	0.5	2	11/19/2013	1.21	PCI/G	29.188	1.46
504-2	2	3	11/19/2013	0.829	PCI/G	19.997	1.00
504-2	0	0.5	11/19/2013	1.52	PCI/G	36.666	1.83
504-3	0.5	2	11/19/2013	1.19	PCI/G	28.705	1.44
504-3	2	3	11/19/2013	0.829	PCI/G	19.997	1.00
504-3	0	0.5	11/19/2013	1.56	PCI/G	37.631	1.88
504-4	0.5	2	11/19/2013	1.37	PCI/G	33.047	1.65
504-4	2	3	11/19/2013	1.11	PCI/G	26.776	1.34
504-4	0	0.5	11/19/2013	1.67	PCI/G	40.284	2.01
5A001	0	0.5	8/29/2000	8.97	MG/KG	73.525	3.68
5A002	0	0.5	8/29/2000	8.01	MG/KG	65.656	3.28
5A003	0	0.5	8/29/2000	3.07	MG/KG	25.164	1.26
5A004	0	0.5	8/29/2000	3.14	MG/KG	25.738	1.29
5A005	0	0.5	8/29/2000	3.17	MG/KG	25.984	1.30
5A006	0	0.5	8/29/2000	7.6	MG/KG	62.295	3.11
5A007	0	0.5	8/29/2000	2.96	MG/KG	24.262	1.21
5A008	0	0.5	8/29/2000	3.67	MG/KG	30.082	1.50
5A009	0	0.5	9/9/2001	3.5	MG/KG	28.689	1.43
5A010	1.5	2	9/10/2001	2.55	MG/KG	20.902	1.05
5A010	5	5	9/18/2003	1.458	PCI/G	35.170	1.76
5A010	0	0.5	9/10/2001	7.63	MG/KG	62.541	3.13
5A010-1	0.5	2	11/20/2013	1.24	PCI/G	29.912	1.50
5A010-1	2	3	11/20/2013	0.77	PCI/G	18.574	0.93
5A010-1	0	0.5	11/20/2013	3.3	PCI/G	79.603	3.98
5A010-2	1	2	11/20/2013	1.51	PCI/G	36.425	1.82
5A010-2	0.5	2	11/20/2013	1.93	PCI/G	46.556	2.33
5A010-2	2	3	11/20/2013	1.16	PCI/G	27.982	1.40
5A010-2	0	0.5	11/20/2013	3.59	PCI/G	86.599	4.33
5A010-3	0.5	2	11/20/2013	0.743	PCI/G	17.923	0.90
5A010-3	2	3	11/20/2013	0.702	PCI/G	16.934	0.85
5A010-3	0	0.5	11/20/2013	1.14	PCI/G	27.499	1.37
5A010-4	0.5	2	6/24/2014	1.12	PCI/G	27.017	1.35
5A010-4	2	3	6/24/2014	1.07	PCI/G	25.811	1.29
5A010-4	0	0.5	6/24/2014	1.97	PCI/G	47.521	2.38
5A010-5	0.5	2	6/24/2014	0.955	PCI/G	23.037	1.15
5A010-5	2	3	6/24/2014	0.861	PCI/G	20.769	1.04
5A010-5	0	0.5	6/24/2014	1.23	PCI/G	29.670	1.48
5A011	0	0.5	9/9/2001	3.25	MG/KG	26.639	1.33
5A012	0	0.5	9/10/2001	6	MG/KG	49.180	2.46
5A013	1.5	2	9/10/2001	2.98	MG/KG	24.426	1.22
5A013	5	5	9/18/2003	1.07	MG/KG	8.770	0.44
5A013	0	0.5	9/10/2001	6.73	MG/KG	55.164	2.76
5A014	0	0.5	9/9/2001	6.81	MG/KG	55.820	2.79
5A015	0	0.5	9/9/2001	2.73	MG/KG	22.377	1.12
5A016	1	1.5	9/9/2001	13.6	MG/KG	111.475	5.57
5A016	1.53	1.7	9/9/2001	10	MG/KG	81.967	4.10
5A016	5	5	9/22/2003	2.31	MG/KG	18.934	0.95
5A016	0	0.5	9/9/2001	4.43	MG/KG	36.311	1.82
5A016-1	1	2	11/19/2013	0.955	PCI/G	23.037	1.15

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Predicted Total Uranium Concentrations in Water
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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
5A016-1	0.5	2	11/19/2013	0.969	PCI/G	23.374	1.17
5A016-1	2	3	11/19/2013	0.872	PCI/G	21.035	1.05
5A016-1	0	0.5	11/19/2013	0.695	PCI/G	16.765	0.84
5A016-2	0.5	2	11/19/2013	1.06	PCI/G	25.570	1.28
5A016-2	2	3	11/19/2013	0.686	PCI/G	16.548	0.83
5A016-2	0	0.5	11/19/2013	1.48	PCI/G	35.701	1.79
5A016-3	0.5	2	11/19/2013	1.06	PCI/G	25.570	1.28
5A016-3	2	3	11/19/2013	0.938	PCI/G	22.627	1.13
5A016-3	0	0.5	11/19/2013	1.14	PCI/G	27.499	1.37
5A016-4	0.5	2	11/19/2013	1.95	PCI/G	47.038	2.35
5A016-4	2	3	11/19/2013	0.528	PCI/G	12.737	0.64
5A016-4	0	0.5	11/19/2013	0.938	PCI/G	22.627	1.13
5A016-5	0.5	2	6/23/2014	0.599	PCI/G	14.449	0.72
5A016-5	2	3	6/23/2014	0.906	PCI/G	21.855	1.09
5A016-5	0	0.5	6/23/2014	0.961	PCI/G	23.181	1.16
5A016-6	0.5	2	6/24/2014	0.823	PCI/G	19.853	0.99
5A016-6	2	3	6/24/2014	0.905	PCI/G	21.831	1.09
5A016-6	0	0.5	6/24/2014	1.06	PCI/G	25.570	1.28
5A016-7	0.5	2	6/23/2014	2.2	PCI/G	53.069	2.65
5A016-7	2	3	6/23/2014	0.963	PCI/G	23.230	1.16
5A016-7	0	0.5	6/23/2014	2.22	PCI/G	53.551	2.68
5A016-8	0.5	2	6/23/2014	0.669	PCI/G	16.138	0.81
5A016-8	2	3	6/23/2014	0.829	PCI/G	19.997	1.00
5A016-8	0	0.5	6/23/2014	1.02	PCI/G	24.605	1.23
5A016-9	0.5	2	6/24/2014	0.691	PCI/G	16.668	0.83
5A016-9	2	3	6/24/2014	0.689	PCI/G	16.620	0.83
5A016-9	0	0.5	6/24/2014	2.07	PCI/G	49.933	2.50
5A017	0	0.5	9/9/2001	2.68	MG/KG	21.967	1.10
5A018	1.5	2	9/9/2001	2.54	MG/KG	20.820	1.04
5A018	5	5	9/18/2003	1.35	MG/KG	11.066	0.55
5A019	1.5	1.75	9/9/2001	4.12	MG/KG	33.770	1.69
5A020	1.5	2	9/9/2001	2.43	MG/KG	19.918	1.00
5A020	5	5	9/22/2003	0.914	MG/KG	7.492	0.37
5A021	0	0.5	9/9/2001	10	MG/KG	81.967	4.10
5A021-1	0.5	2	11/20/2013	1.06	PCI/G	25.570	1.28
5A021-1	2	3	11/20/2013	0.807	PCI/G	19.467	0.97
5A021-1	0	0.5	11/20/2013	4.28	PCI/G	103.243	5.16
5A021-2	0.5	2	11/20/2013	1.11	PCI/G	26.776	1.34
5A021-2	2	3	11/20/2013	0.708	PCI/G	17.079	0.85
5A021-2	0	0.5	11/20/2013	1.06	PCI/G	25.570	1.28
5A021-3	1	2	11/20/2013	1.05	PCI/G	25.328	1.27
5A021-3	0.5	2	11/20/2013	1.05	PCI/G	25.328	1.27
5A021-3	2	3	11/20/2013	0.881	PCI/G	21.252	1.06
5A021-3	0	0.5	11/20/2013	1.72	PCI/G	41.490	2.07
5A021-4	0.5	2	11/20/2013	0.803	PCI/G	19.370	0.97
5A021-4	2	3	11/20/2013	0.749	PCI/G	18.068	0.90
5A021-4	0	0.5	11/20/2013	1.48	PCI/G	35.701	1.79
5A021-5	0.5	2	6/24/2014	0.815	PCI/G	19.660	0.98
5A021-5	2	3	6/24/2014	0.676	PCI/G	16.307	0.82
5A021-5	0	0.5	6/24/2014	0.93	PCI/G	22.434	1.12
606-1	0.5	2	11/7/2013	0.774	PCI/G	18.671	0.93

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
606-1	2	3	11/7/2013	0.669	PCI/G	16.138	0.81
606-1	0	0.5	11/7/2013	0.877	PCI/G	21.155	1.06
606-2	0.5	2	11/7/2013	0.674	PCI/G	16.258	0.81
606-2	2	3	11/7/2013	0.933	PCI/G	22.506	1.13
606-2	0	0.5	11/7/2013	0.677	PCI/G	16.331	0.82
606-3	0.5	2	11/5/2013	0.554	PCI/G	13.364	0.67
606-3	2	3	11/5/2013	0.708	PCI/G	17.079	0.85
606-3	0	0.5	11/5/2013	0.632	PCI/G	15.245	0.76
606-4	0.5	2	11/7/2013	0.687	PCI/G	16.572	0.83
606-4	2	3	11/7/2013	0.57	PCI/G	13.750	0.69
606-4	0	0.5	11/7/2013	0.756	PCI/G	18.236	0.91
6A001	1.5	2	10/7/2001	2.04	MG/KG	16.721	0.84
6A001	1	1.5	10/7/2001	4.46	MG/KG	36.557	1.83
6A001	0	0.5	10/7/2001	3.58	MG/KG	29.344	1.47
6A001-1	0.5	2	11/7/2013	0.7915	PCI/G	19.093	0.95
6A001-1	2	3	11/7/2013	0.722	PCI/G	17.416	0.87
6A001-1	0	0.5	11/7/2013	1.21	PCI/G	29.188	1.46
6A001-2	0.5	2	11/7/2013	0.64	PCI/G	15.438	0.77
6A001-2	0	0.5	11/7/2013	0.537	PCI/G	12.954	0.65
6A001-3	0.5	2	11/7/2013	0.654	PCI/G	15.776	0.79
6A001-3	2	3	11/7/2013	0.681	PCI/G	16.427	0.82
6A001-3	0	0.5	11/7/2013	0.54	PCI/G	13.026	0.65
6A001-4	0	0.5	11/7/2013	0.661	PCI/G	15.945	0.80
6A001-5	0.5	2	6/30/2014	0.716	PCI/G	17.271	0.86
6A001-5	2	3	6/30/2014	0.806	PCI/G	19.442	0.97
6A001-5	0	0.5	6/30/2014	0.735	PCI/G	17.730	0.89
6A001-6	0.5	2	6/30/2014	0.686	PCI/G	16.548	0.83
6A001-6	2	3	6/30/2014	0.569	PCI/G	13.726	0.69
6A001-6	0	0.5	6/30/2014	0.843	PCI/G	20.335	1.02
6A002	0	0.5	10/7/2001	1.72	MG/KG	14.098	0.70
6A003	0	0.5	10/7/2001	2.27	MG/KG	18.607	0.93
6A004	0	0.5	10/7/2001	1.35	MG/KG	11.066	0.55
6A005	0	0.5	10/7/2001	2.57	MG/KG	21.066	1.05
6A006	1.5	2	10/7/2001	2.71	MG/KG	22.213	1.11
6A006	0	0.5	10/7/2001	1.93	MG/KG	15.820	0.79
6A007	0	0.5	10/7/2001	1.65	MG/KG	13.525	0.68
6A008	0	0.5	10/7/2001	1.53	MG/KG	12.541	0.63
6A009	0	0.5	10/7/2001	2.2	MG/KG	18.033	0.90
6A010	0	0.5	10/7/2001	3.06	MG/KG	25.082	1.25
6B001	0	0.5	10/7/2001	2.99	MG/KG	24.508	1.23
6B002	0	0.5	10/7/2001	1.5	MG/KG	12.295	0.61
6B003	0	0.5	10/7/2001	2.2	MG/KG	18.033	0.90
6B004	0	0.5	10/7/2001	2.63	MG/KG	21.557	1.08
6B005	1	1.5	10/6/2001	79.2	MG/KG	649.180	32.46
6B005	1.5	2	10/6/2001	27.7	MG/KG	227.049	11.35
6B005	0	0.5	10/6/2001	6.55	MG/KG	53.689	2.68
6B005-1	0.5	2	11/7/2013	33.5	PCI/G	808.093	40.40
6B005-1	2	3	11/7/2013	2.94	PCI/G	70.919	3.55
6B005-1	0	0.5	11/7/2013	1.85	PCI/G	44.626	2.23
6B005-2	0.5	2	11/7/2013	0.975	PCI/G	23.519	1.18
6B005-2	2	3	11/7/2013	1.06	PCI/G	25.570	1.28

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
6B005-2	0	0.5	11/7/2013	0.946	PCI/G	22.820	1.14
6B005-3	0.5	2	11/7/2013	1.81	PCI/G	43.661	2.18
6B005-3	2	3	11/7/2013	1.29	PCI/G	31.118	1.56
6B005-3	0	0.5	11/7/2013	1.36	PCI/G	32.806	1.64
6B005-4	0.5	2	11/7/2013	1.11	PCI/G	26.776	1.34
6B005-4	2	3	11/7/2013	0.868	PCI/G	20.938	1.05
6B005-4	0	0.5	11/7/2013	1.03	PCI/G	24.846	1.24
6B005-5	0.5	2	7/1/2014	1.82	PCI/G	43.902	2.20
6B005-5	2	3	7/1/2014	1.27	PCI/G	30.635	1.53
6B005-5	0	0.5	7/1/2014	0.882	PCI/G	21.276	1.06
6B005-6	0.5	2	7/1/2014	0.897	PCI/G	21.638	1.08
6B005-6	2	3	7/1/2014	0.681	PCI/G	16.427	0.82
6B005-6	0	0.5	7/1/2014	0.655	PCI/G	15.800	0.79
6B005-7	0.5	2	7/1/2014	0.729	PCI/G	17.585	0.88
6B005-7	2	3	7/1/2014	1.21	PCI/G	29.188	1.46
6B005-7	0	0.5	7/1/2014	0.887	PCI/G	21.396	1.07
6B006	0	0.5	10/6/2001	2.11	MG/KG	17.295	0.86
6C001	0	0.5	10/6/2001	1.48	MG/KG	12.131	0.61
6C002	0	0.5	10/6/2001	2.02	MG/KG	16.557	0.83
6C003	0	0.5	10/6/2001	3.44	MG/KG	28.197	1.41
6C004	0	0.5	10/6/2001	2.32	MG/KG	19.016	0.95
6C005	0	0.5	10/6/2001	2.97	MG/KG	24.344	1.22
6C006	0	0.5	10/6/2001	3.69	MG/KG	30.246	1.51
816-1	0.5	2	12/16/2013	0.977	PCI/G	23.567	1.18
816-1	2	3	12/16/2013	0.58	PCI/G	13.991	0.70
816-1	0	0.5	12/16/2013	1.79	PCI/G	43.179	2.16
816-2	0.5	2	12/16/2013	0.781	PCI/G	18.839	0.94
816-2	0	0.5	12/16/2013	0.836	PCI/G	20.166	1.01
816-3	0.5	2	12/16/2013	0.707	PCI/G	17.054	0.85
816-3	2	3	12/16/2013	0.926	PCI/G	22.337	1.12
816-3	0	0.5	12/16/2013	0.654	PCI/G	15.776	0.79
816-4	0.5	2	12/16/2013	0.584	PCI/G	14.087	0.70
816-4	2	3	12/16/2013	0.975	PCI/G	23.519	1.18
816-4	0	0.5	12/16/2013	0.744	PCI/G	17.947	0.90
826-1	0.5	2	12/6/2013	1.34	PCI/G	32.324	1.62
826-1	2	3	12/6/2013	1.04	PCI/G	25.087	1.25
826-1	0	0.5	12/6/2013	0.515	PCI/G	12.423	0.62
826-2	0.5	2	12/6/2013	0.786	PCI/G	18.960	0.95
826-2	2	3	12/6/2013	0.809	PCI/G	19.515	0.98
826-2	0	0.5	12/6/2013	0.797	PCI/G	19.225	0.96
826-3	0.5	2	12/6/2013	1.13	PCI/G	27.258	1.36
826-3	2	3	12/6/2013	0.753	PCI/G	18.164	0.91
826-3	0	0.5	12/6/2013	1.28	PCI/G	30.876	1.54
826-4	0.5	2	12/6/2013	1.58	PCI/G	38.113	1.91
826-4	2	3	12/6/2013	1.1	PCI/G	26.534	1.33
826-4	0	0.5	12/6/2013	1.27	PCI/G	30.635	1.53
827-1	0.5	2	12/5/2013	5.84	PCI/G	140.874	7.04
827-1	0	0.5	12/5/2013	1.27	PCI/G	30.635	1.53
827-2	0.5	2	12/4/2013	1.5	PCI/G	36.183	1.81
827-2	2	3	12/4/2013	1.07	PCI/G	25.811	1.29
827-2	0	0.5	12/4/2013	0.981	PCI/G	23.664	1.18

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
827-3	0.5	2	12/5/2013	1.41	PCI/G	34.012	1.70
827-3	2	3	12/5/2013	1.26	PCI/G	30.394	1.52
827-3	0	0.5	12/5/2013	1.63	PCI/G	39.319	1.97
827-4	0.5	2	12/5/2013	1.26	PCI/G	30.394	1.52
827-4	2	3	12/5/2013	1.72	PCI/G	41.490	2.07
827-4	0	0.5	12/5/2013	1.22	PCI/G	29.429	1.47
827-5	0.5	2	12/5/2013	3.12	PCI/G	75.261	3.76
827-5	2	3	12/5/2013	1.46	PCI/G	35.218	1.76
827-5	0	0.5	12/5/2013	1.08	PCI/G	26.052	1.30
828-1	0.5	2	11/7/2013	0.649	PCI/G	15.655	0.78
828-1	2	3	11/7/2013	0.714	PCI/G	17.223	0.86
828-1	0	0.5	11/7/2013	0.545	PCI/G	13.147	0.66
828-2	0.5	2	11/5/2013	0.527	PCI/G	12.712	0.64
828-2	2	3	11/5/2013	0.601	PCI/G	14.497	0.72
828-2	0	0.5	11/5/2013	0.611	PCI/G	14.739	0.74
828-3	0.5	2	11/5/2013	0.6475	PCI/G	15.619	0.78
828-3	0	0.5	11/5/2013	0.633	PCI/G	15.269	0.76
828-4	2	3	11/5/2013	0.764	PCI/G	18.429	0.92
828-4	0	0.5	11/5/2013	0.622	PCI/G	15.004	0.75
828-5	0.5	2	7/2/2014	0.609	PCI/G	14.690	0.73
828-5	2	3	7/2/2014	0.755	PCI/G	18.212	0.91
828-5	0	0.5	7/2/2014	0.698	PCI/G	16.837	0.84
829-1	0.5	2	11/7/2013	0.992	PCI/G	23.929	1.20
829-1	2	3	11/7/2013	0.715	PCI/G	17.247	0.86
829-1	0	0.5	11/7/2013	1.28	PCI/G	30.876	1.54
829-2	0.5	2	11/7/2013	0.924	PCI/G	22.289	1.11
829-2	2	3	11/7/2013	0.818	PCI/G	19.732	0.99
829-2	0	0.5	11/7/2013	0.755	PCI/G	18.212	0.91
829-3	0.5	2	11/5/2013	0.719	PCI/G	17.344	0.87
829-3	2	3	11/5/2013	0.563	PCI/G	13.581	0.68
829-3	0	0.5	11/5/2013	0.854	PCI/G	20.600	1.03
829-4	0.5	2	11/7/2013	0.558	PCI/G	13.460	0.67
829-4	2	3	11/7/2013	2.92	PCI/G	70.437	3.52
829-4	0	0.5	11/7/2013	0.542	PCI/G	13.074	0.65
830-1	0.5	2	12/5/2013	1.11	PCI/G	26.776	1.34
830-1	2	3	12/5/2013	1.67	PCI/G	40.284	2.01
830-1	0	0.5	12/5/2013	0.712	PCI/G	17.175	0.86
830-2	0.5	2	12/5/2013	1	PCI/G	24.122	1.21
830-2	2	3	12/5/2013	0.847	PCI/G	20.431	1.02
830-2	0	0.5	12/5/2013	0.625	PCI/G	15.076	0.75
8A001	1.5	2	9/8/2001	3.54	MG/KG	29.016	1.45
8A002	0	0.5	9/8/2001	3.12	MG/KG	25.574	1.28
8A003	1.5	2	9/8/2001	3.06	MG/KG	25.082	1.25
8A003	0	0.5	9/8/2001	5.86	MG/KG	48.033	2.40
8A004	0	0.5	9/8/2001	3.65	MG/KG	29.918	1.50
8A004-1	0.5	2	11/13/2013	0.942	PCI/G	22.723	1.14
8A004-1	2	3	11/13/2013	0.935	PCI/G	22.554	1.13
8A004-1	0	0.5	11/13/2013	1	PCI/G	24.122	1.21
8A004-2	0.5	2	11/13/2013	0.989	PCI/G	23.857	1.19
8A004-2	2	3	11/13/2013	1.03	PCI/G	24.846	1.24
8A004-2	0	0.5	11/13/2013	0.922	PCI/G	22.241	1.11

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
8A004-3	0.5	2	11/13/2013	1.58	PCI/G	38.113	1.91
8A004-3	2	3	11/13/2013	2.14	PCI/G	51.621	2.58
8A004-3	0	0.5	11/13/2013	1.17	PCI/G	28.223	1.41
8A004-4	0.5	2	11/13/2013	1.09	PCI/G	26.293	1.31
8A004-4	2	3	11/13/2013	0.96	PCI/G	23.157	1.16
8A004-4	0	0.5	11/13/2013	1.19	PCI/G	28.705	1.44
8A004-5	0.5	2	6/18/2014	1.16	PCI/G	27.982	1.40
8A004-5	2	3	6/18/2014	1.19	PCI/G	28.705	1.44
8A004-5	0	0.5	6/18/2014	0.884	PCI/G	21.324	1.07
8A004-6	0.5	2	6/18/2014	1.32	PCI/G	31.841	1.59
8A004-6	2	3	6/18/2014	1.26	PCI/G	30.394	1.52
8A004-6	0	0.5	6/18/2014	0.903	PCI/G	21.782	1.09
8A004-7	0.5	2	6/18/2014	0.883	PCI/G	21.300	1.06
8A004-7	2	3	6/18/2014	1.26	PCI/G	30.394	1.52
8A004-7	0	0.5	6/18/2014	0.74	PCI/G	17.850	0.89
8A005	0	0.5	9/8/2001	2.63	MG/KG	21.557	1.08
8A006	0	0.5	9/8/2001	3.61	MG/KG	29.590	1.48
8A007	0	0.5	9/7/2001	2.34	MG/KG	19.180	0.96
8A008	0	0.5	9/7/2001	2.63	MG/KG	21.557	1.08
8A009	2	2	9/7/2001	3.77	MG/KG	30.902	1.55
8A009	0	0.5	9/7/2001	4.98	MG/KG	40.820	2.04
8A009-1	0.5	2	12/6/2013	2.03	PCI/G	48.968	2.45
8A009-1	2	3	12/6/2013	1.22	PCI/G	29.429	1.47
8A009-1	0	0.5	12/6/2013	1.96	PCI/G	47.279	2.36
8A009-2	0.5	2	12/6/2013	1.15	PCI/G	27.741	1.39
8A009-2	0	0.5	12/6/2013	1.28	PCI/G	30.876	1.54
8A009-3	0.5	2	12/6/2013	2.18	PCI/G	52.586	2.63
8A009-3	2	3	12/6/2013	0.813	PCI/G	19.611	0.98
8A009-3	0	0.5	12/6/2013	2.44	PCI/G	58.858	2.94
8A009-4	0.5	2	12/6/2013	2.72	PCI/G	65.612	3.28
8A009-4	2	3	12/6/2013	1.15	PCI/G	27.741	1.39
8A010	0	0.5	9/8/2001	3.47	MG/KG	28.443	1.42
8A011	2	2	9/10/2001	2.84	MG/KG	23.279	1.16
8B001	0	0.5	11/19/2001	3.07	MG/KG	25.164	1.26
8B001-1	0.5	2	12/16/2013	1.25	PCI/G	30.153	1.51
8B001-1	2	3	12/16/2013	1.18	PCI/G	28.464	1.42
8B001-1	0	0.5	12/16/2013	0.8	PCI/G	19.298	0.96
8B001-2	0.5	2	12/16/2013	2.57	PCI/G	61.994	3.10
8B001-2	2	3	12/16/2013	0.79	PCI/G	19.057	0.95
8B001-2	0	0.5	12/16/2013	2.11	PCI/G	50.898	2.54
8B001-3	0.5	2	12/16/2013	0.973	PCI/G	23.471	1.17
8B001-3	2	3	12/16/2013	2.5	PCI/G	60.305	3.02
8B001-3	0	0.5	12/16/2013	1.49	PCI/G	35.942	1.80
8B001-4	0.5	2	12/16/2013	1.1	PCI/G	26.534	1.33
8B001-4	2	3	12/16/2013	0.957	PCI/G	23.085	1.15
8B001-4	0	0.5	12/16/2013	0.974	PCI/G	23.495	1.17
8B001-5	0.5	2	6/19/2014	0.994	PCI/G	23.977	1.20
8B001-5	2	3	6/19/2014	0.827	PCI/G	19.949	1.00
8B001-5	3	4	6/19/2014	0.671	PCI/G	16.186	0.81
8B001-5	4	5	6/19/2014	0.724	PCI/G	17.464	0.87
8B001-5	0	0.5	6/19/2014	1.42	PCI/G	34.254	1.71

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(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
8B001-6	0.5	2	6/19/2014	0.945	PCI/G	22.795	1.14
8B001-6	2	3	6/19/2014	1.01	PCI/G	24.363	1.22
8B001-6	3	4	6/19/2014	0.923	PCI/G	22.265	1.11
8B001-6	4	5	6/19/2014	0.786	PCI/G	18.960	0.95
8B001-6	0	0.5	6/19/2014	0.883	PCI/G	21.300	1.06
8B001-7	0.5	2	6/19/2014	0.759	PCI/G	18.309	0.92
8B001-7	2	3	6/19/2014	4.63	PCI/G	111.686	5.58
8B001-7	3	4	6/19/2014	4.72	PCI/G	113.857	5.69
8B001-7	4	5	6/19/2014	3.64	PCI/G	87.805	4.39
8B001-7	0	0.5	6/19/2014	0.796	PCI/G	19.201	0.96
8B002	2	2	11/17/2001	3.22	MG/KG	26.393	1.32
8B002	0	0.5	11/17/2001	1.86	MG/KG	15.246	0.76
8B003	0	0.5	11/17/2001	2.68	MG/KG	21.967	1.10
8B004	0	0.5	11/18/2001	3.42	MG/KG	28.033	1.40
8B005	0	0.5	11/18/2001	4.07	MG/KG	33.361	1.67
8B006	0	0.5	11/18/2001	3.28	MG/KG	26.885	1.34
8B007	0	0.5	11/18/2001	9.69	MG/KG	79.426	3.97
8B008	2	2	11/18/2001	4.47	MG/KG	36.639	1.83
8B008	0	0.5	11/18/2001	15.5	MG/KG	127.049	6.35
8B009	0	0.5	11/18/2001	2.85	MG/KG	23.361	1.17
8B010	0	0.5	11/18/2001	8.09	MG/KG	66.311	3.32
8C001	0	0.5	9/6/2001	2.89	MG/KG	23.689	1.18
8C002	0	0.5	9/6/2001	0.57	MG/KG	4.672	0.23
8C003	0	0.5	9/7/2001	3.21	MG/KG	26.311	1.32
8C004	0	0.5	9/6/2001	2.68	MG/KG	21.967	1.10
8D001	0	0.5	9/6/2001	3.56	MG/KG	29.180	1.46
8D002	0	0.5	9/7/2001	5.61	MG/KG	45.984	2.30
8D003	4.5	4.5	9/22/2003	0.858	MG/KG	7.033	0.35
8D003	0	0.5	9/5/2001	5.71	MG/KG	46.803	2.34
8D003-1	0.5	2	11/15/2013	1.11	PCI/G	26.776	1.34
8D003-1	2	3	11/15/2013	0.765	PCI/G	18.453	0.92
8D003-1	0	0.5	11/15/2013	1.08	PCI/G	26.052	1.30
8D003-2	0.5	2	11/15/2013	0.875	PCI/G	21.107	1.06
8D003-2	2	3	11/15/2013	0.764	PCI/G	18.429	0.92
8D003-2	0	0.5	11/15/2013	1.09	PCI/G	26.293	1.31
8D003-3	0.5	2	11/15/2013	0.754	PCI/G	18.188	0.91
8D003-3	2	3	11/15/2013	0.642	PCI/G	15.486	0.77
8D003-3	0	0.5	11/15/2013	0.92	PCI/G	22.192	1.11
8D003-4	0.5	2	11/15/2013	1.06	PCI/G	25.570	1.28
8D003-4	2	3	11/15/2013	0.725	PCI/G	17.489	0.87
8D003-4	0	0.5	11/15/2013	1.31	PCI/G	31.600	1.58
8D004	1.47	1.8	9/5/2001	2.69	MG/KG	22.049	1.10
8D004	0	0.5	9/5/2001	5.42	MG/KG	44.426	2.22
8D004-1	0.5	2	11/18/2013	0.813	PCI/G	19.611	0.98
8D004-1	2	3	11/18/2013	0.689	PCI/G	16.620	0.83
8D004-1	0	0.5	11/18/2013	1.47	PCI/G	35.460	1.77
8D004-2	0.5	2	11/18/2013	0.754	PCI/G	18.188	0.91
8D004-2	2	3	11/18/2013	0.698	PCI/G	16.837	0.84
8D004-2	0	0.5	11/18/2013	0.79	PCI/G	19.057	0.95
8D004-3	0.5	2	11/18/2013	0.677	PCI/G	16.331	0.82
8D004-3	2	3	11/18/2013	0.757	PCI/G	18.261	0.91

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
8D004-3	0	0.5	11/18/2013	0.969	PCI/G	23.374	1.17
8D004-4	0.5	2	11/18/2013	1.02	PCI/G	24.605	1.23
8D004-4	2	3	11/18/2013	1.22	PCI/G	29.429	1.47
8D004-4	0	0.5	11/18/2013	0.944	PCI/G	22.771	1.14
8D004-5	0.5	2	6/25/2014	1.13	PCI/G	27.258	1.36
8D004-5	2	3	6/25/2014	0.794	PCI/G	19.153	0.96
8D004-5	0	0.5	6/25/2014	3.25	PCI/G	78.397	3.92
8D004-6	0.5	2	6/25/2014	1.32	PCI/G	31.841	1.59
8D004-6	2	3	6/25/2014	0.822	PCI/G	19.828	0.99
8D004-6	0	0.5	6/25/2014	0.616	PCI/G	14.859	0.74
8D004-7	0.5	2	6/25/2014	1.08	PCI/G	26.052	1.30
8D004-7	2	3	6/25/2014	0.739	PCI/G	17.826	0.89
8D004-7	0	0.5	6/25/2014	0.828	PCI/G	19.973	1.00
8D005	0	0.5	9/5/2001	2.67	MG/KG	21.885	1.09
8D006	1.17	1.5	9/6/2001	3.56	MG/KG	29.180	1.46
8D006	1.5	2	9/6/2001	2.63	MG/KG	21.557	1.08
8D006	2	2.5	9/22/2003	1.16	MG/KG	9.508	0.48
8D006	0	0.5	9/5/2001	2.77	MG/KG	22.705	1.14
8D006-1	0.5	2	11/18/2013	0.809	PCI/G	19.515	0.98
8D006-1	2	3	11/18/2013	1.32	PCI/G	31.841	1.59
8D006-1	0	0.5	11/18/2013	0.878	PCI/G	21.179	1.06
8D006-2	0.5	2	11/15/2013	1.19	PCI/G	28.705	1.44
8D006-2	2	3	11/15/2013	0.645	PCI/G	15.559	0.78
8D006-2	0	0.5	11/15/2013	1.03	PCI/G	24.846	1.24
8D006-3	0.5	2	11/15/2013	0.597	PCI/G	14.401	0.72
8D006-3	2	3	11/15/2013	0.645	PCI/G	15.559	0.78
8D006-3	0	0.5	11/15/2013	1.13	PCI/G	27.258	1.36
8D006-4	0.5	2	11/15/2013	0.735	PCI/G	17.730	0.89
8D006-4	2	3	11/15/2013	0.573	PCI/G	13.822	0.69
8D006-4	0	0.5	11/15/2013	0.745	PCI/G	17.971	0.90
8D006-5	0.5	2	6/24/2014	0.896	PCI/G	21.613	1.08
8D006-5	2	3	6/24/2014	0.674	PCI/G	16.258	0.81
8D006-5	0	0.5	6/24/2014	1.22	PCI/G	29.429	1.47
8D006-6	0.5	2	6/24/2014	0.944	PCI/G	22.771	1.14
8D006-6	2	3	6/24/2014	1.02	PCI/G	24.605	1.23
8D006-6	0	0.5	6/24/2014	0.713	PCI/G	17.199	0.86
8D006-7	0.5	2	6/24/2014	0.86	PCI/G	20.745	1.04
8D006-7	2	3	6/24/2014	0.621	PCI/G	14.980	0.75
8D006-7	0	0.5	6/24/2014	0.726	PCI/G	17.513	0.88
8D007	1.47	1.8	9/5/2001	3.26	MG/KG	26.721	1.34
8D007	0	0.5	9/5/2001	10.9	MG/KG	89.344	4.47
8D007-1	0.5	2	11/18/2013	0.89	PCI/G	21.469	1.07
8D007-1	2	3	11/18/2013	0.719	PCI/G	17.344	0.87
8D007-1	0	0.5	11/18/2013	1.09	PCI/G	26.293	1.31
8D007-2	0.5	2	11/18/2013	1.8	PCI/G	43.420	2.17
8D007-2	2	3	11/18/2013	1.9	PCI/G	45.832	2.29
8D007-2	0	0.5	11/18/2013	1.26	PCI/G	30.394	1.52
8D007-3	1	2	11/18/2013	0.756	PCI/G	18.236	0.91
8D007-3	0.5	2	11/18/2013	0.905	PCI/G	21.831	1.09
8D007-3	2	3	11/18/2013	0.59	PCI/G	14.232	0.71
8D007-3	0	0.5	11/18/2013	1.88	PCI/G	45.350	2.27

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
8D007-4	0.5	2	11/18/2013	1.31	PCI/G	31.600	1.58
8D007-4	2	3	11/18/2013	0.594	PCI/G	14.329	0.72
8D007-4	0	0.5	11/18/2013	1	PCI/G	24.122	1.21
8D007-5	0.5	2	6/25/2014	2.16	PCI/G	52.104	2.61
8D007-5	2	3	6/25/2014	0.598	PCI/G	14.425	0.72
8D007-5	0	0.5	6/25/2014	0.672	PCI/G	16.210	0.81
8D008	0	0.5	9/5/2001	3.21	MG/KG	26.311	1.32
8D009	1.5	2	9/5/2001	2.55	MG/KG	20.902	1.05
8D009	2	2.5	9/22/2003	0.839	MG/KG	6.877	0.34
8D009	0	0.5	9/10/2001	19	MG/KG	155.738	7.79
8D009-1	0.5	2	11/14/2013	0.842	PCI/G	20.311	1.02
8D009-1	2	3	11/14/2013	0.824	PCI/G	19.877	0.99
8D009-1	0	0.5	11/14/2013	0.882	PCI/G	21.276	1.06
8D009-2	0.5	2	11/14/2013	1.58	PCI/G	38.113	1.91
8D009-2	2	3	11/14/2013	0.865	PCI/G	20.866	1.04
8D009-2	0	0.5	11/14/2013	1.11	PCI/G	26.776	1.34
8D009-3	0.5	2	11/14/2013	0.7875	PCI/G	18.996	0.95
8D009-3	2	3	11/14/2013	3.67	PCI/G	88.528	4.43
8D009-3	3	4	11/14/2013	30.8	PCI/G	742.964	37.15
8D009-3	4	5	11/14/2013	5.21	PCI/G	125.677	6.28
8D009-3	0	0.5	11/14/2013	0.69	PCI/G	16.644	0.83
8D009-4	0.5	2	11/14/2013	0.7	PCI/G	16.886	0.84
8D009-4	2	3	11/14/2013	0.558	PCI/G	13.460	0.67
8D009-4	0	0.5	11/14/2013	0.756	PCI/G	18.236	0.91
8D009-5	0.5	2	6/25/2014	0.963	PCI/G	23.230	1.16
8D009-5	2	3	6/25/2014	2.14	PCI/G	51.621	2.58
8D009-5	3	5	6/25/2014	3.09	PCI/G	74.538	3.73
8D009-5	5	7	6/25/2014	0.942	PCI/G	22.723	1.14
8D009-5	0	0.5	6/25/2014	0.633	PCI/G	15.269	0.76
8D009-6	0.5	2	6/25/2014	0.909	PCI/G	21.927	1.10
8D009-6	2	3	6/25/2014	0.923	PCI/G	22.265	1.11
8D009-6	3	5	6/25/2014	2.06	PCI/G	49.692	2.48
8D009-6	5	7	6/25/2014	3.14	PCI/G	75.744	3.79
8D009-6	0	0.5	6/25/2014	0.803	PCI/G	19.370	0.97
8D009-7	0.5	2	6/25/2014	0.801	PCI/G	19.322	0.97
8D009-7	2	3	6/25/2014	0.747	PCI/G	18.019	0.90
8D009-7	3	5	6/25/2014	0.686	PCI/G	16.548	0.83
8D009-7	5	7	6/25/2014	0.544	PCI/G	13.122	0.66
8D009-7	0	0.5	6/25/2014	0.648	PCI/G	15.631	0.78
8D011	1.5	2	9/6/2001	1.89	MG/KG	15.492	0.77
8D012	1.5	2	9/5/2001	1.86	MG/KG	15.246	0.76
8D013	1.53	1.7	9/7/2001	2.56	MG/KG	20.984	1.05
8D014	1.5	2	9/7/2001	2.22	MG/KG	18.197	0.91
8D015	1.5	2	9/5/2001	1.57	MG/KG	12.869	0.64
8D016	1.5	2	9/6/2001	12.6	MG/KG	103.279	5.16
8D016	3	3.5	9/22/2003	0.637	MG/KG	5.221	0.26
8D016-1	0.5	2	11/15/2013	0.729	PCI/G	17.585	0.88
8D016-1	2	3	11/15/2013	2.62	PCI/G	63.200	3.16
8D016-1	0	0.5	11/15/2013	0.724	PCI/G	17.464	0.87
8D016-2	0.5	2	11/15/2013	1.16	PCI/G	27.982	1.40
8D016-2	2	3	11/15/2013	2.62	PCI/G	63.200	3.16

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
8D016-2	0	0.5	11/15/2013	1.06	PCI/G	25.570	1.28
8D016-3	0.5	2	11/15/2013	0.7805	PCI/G	18.827	0.94
8D016-3	2	3	11/15/2013	4.3	PCI/G	103.725	5.19
8D016-3	3	4	11/15/2013	9.73	PCI/G	234.709	11.74
8D016-3	4	5	11/15/2013	2.55	PCI/G	61.512	3.08
8D016-3	0	0.5	11/15/2013	0.989	PCI/G	23.857	1.19
8D016-4	0.5	2	11/15/2013	2.62	PCI/G	63.200	3.16
8D016-4	2	3	11/15/2013	8.13	PCI/G	196.113	9.81
8D016-4	3	4	11/15/2013	4.64	PCI/G	111.927	5.60
8D016-4	4	5	11/15/2013	4.82	PCI/G	116.269	5.81
8D016-4	0	0.5	11/15/2013	1	PCI/G	24.122	1.21
8D016-5	0.5	2	6/26/2014	1.98	PCI/G	47.762	2.39
8D016-5	2	3	6/26/2014	1.75	PCI/G	42.214	2.11
8D016-5	3	5	6/26/2014	1.25	PCI/G	30.153	1.51
8D016-5	5	7	6/26/2014	0.814	PCI/G	19.635	0.98
8D016-5	0	0.5	6/26/2014	1.29	PCI/G	31.118	1.56
8D016-6	0.5	2	6/26/2014	1.03	PCI/G	24.846	1.24
8D016-6	2	3	6/26/2014	1.09	PCI/G	26.293	1.31
8D016-6	3	5	6/26/2014	0.924	PCI/G	22.289	1.11
8D016-6	5	7	6/26/2014	0.848	PCI/G	20.456	1.02
8D016-6	0	0.5	6/26/2014	0.84	PCI/G	20.263	1.01
8D016-7	0.5	2	6/26/2014	1.58	PCI/G	38.113	1.91
8D016-7	2	3	6/26/2014	5.13	PCI/G	123.747	6.19
8D016-7	3	5	6/26/2014	10.3	PCI/G	248.459	12.42
8D016-7	5	7	6/26/2014	5.99	PCI/G	144.492	7.22
8D016-7	0	0.5	6/26/2014	1.04	PCI/G	25.087	1.25
8D016-8	0.5	2	7/2/2014	0.907	PCI/G	21.879	1.09
8D016-8	2	3	7/2/2014	0.952	PCI/G	22.964	1.15
8D016-8	3	5	7/2/2014	0.794	PCI/G	19.153	0.96
8D016-8	5	7	7/2/2014	0.716	PCI/G	17.271	0.86
8D016-8	0	0.5	7/2/2014	0.897	PCI/G	21.638	1.08
8D016-9	0.5	2	7/2/2014	1.24	PCI/G	29.912	1.50
8D016-9	2	3	7/2/2014	0.88	PCI/G	21.228	1.06
8D016-9	3	5	7/2/2014	0.749	PCI/G	18.068	0.90
8D016-9	5	7	7/2/2014	0.676	PCI/G	16.307	0.82
8D016-9	0	0.5	7/2/2014	1.15	PCI/G	27.741	1.39
8E001	0	0.5	9/6/2001	2.85	MG/KG	23.361	1.17
8E002	0	0.5	9/8/2001	2.92	MG/KG	23.934	1.20
8E003	1	1.5	37140	3.36	MG/KG	27.541	1.38
8E003	5	5	10/2/2003	0.7635	PCI/G	18.417	0.92
8E003	0	0.5	9/9/2001	2.32	MG/KG	19.016	0.95
8E003-1	0.5	2	11/19/2013	0.93	PCI/G	22.434	1.12
8E003-1	2	3	11/19/2013	0.77	PCI/G	18.574	0.93
8E003-1	0	0.5	11/19/2013	0.853	PCI/G	20.576	1.03
8E003-2	0.5	2	11/19/2013	0.752	PCI/G	18.140	0.91
8E003-2	2	3	11/19/2013	0.703	PCI/G	16.958	0.85
8E003-2	0	0.5	11/19/2013	0.737	PCI/G	17.778	0.89
8E003-3	0.5	2	11/19/2013	0.645	PCI/G	15.559	0.78
8E003-3	0	0.5	11/19/2013	0.927	PCI/G	22.361	1.12
8E003-4	0.5	2	11/18/2013	0.8525	PCI/G	20.564	1.03
8E003-4	2	3	11/18/2013	0.676	PCI/G	16.307	0.82

Table 1
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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
8E003-4	0	0.5	11/18/2013	0.672	PCI/G	16.210	0.81
8F001	1	1.5	9/9/2001	2.71	MG/KG	22.213	1.11
8F001	0	0.5	9/9/2001	4.32	MG/KG	35.410	1.77
8F001-1	0.5	2	11/22/2013	0.805	PCI/G	19.418	0.97
8F001-1	2	3	11/22/2013	0.703	PCI/G	16.958	0.85
8F001-1	0	0.5	11/22/2013	0.575	PCI/G	13.870	0.69
8F001-2	1	2	11/22/2013	0.601	PCI/G	14.497	0.72
8F001-2	0.5	2	11/22/2013	0.687	PCI/G	16.572	0.83
8F001-2	2	3	11/22/2013	0.785	PCI/G	18.936	0.95
8F001-2	0	0.5	11/22/2013	0.684	PCI/G	16.500	0.82
8F001-3	0.5	2	11/22/2013	0.857	PCI/G	20.673	1.03
8F001-3	2	3	11/22/2013	0.711	PCI/G	17.151	0.86
8F001-3	0	0.5	11/22/2013	0.71	PCI/G	17.127	0.86
8F002	0	0.5	9/9/2001	2.99	MG/KG	24.508	1.23
8F003	0	0.5	9/5/2001	4.83	MG/KG	39.590	1.98
8F003-1	0.5	2	11/19/2013	0.679	PCI/G	16.379	0.82
8F003-1	2	3	11/19/2013	0.678	PCI/G	16.355	0.82
8F003-1	0	0.5	11/19/2013	0.749	PCI/G	18.068	0.90
8F003-2	0.5	2	11/19/2013	0.994	PCI/G	23.977	1.20
8F003-2	2	3	11/19/2013	0.738	PCI/G	17.802	0.89
8F003-2	0	0.5	11/19/2013	0.942	PCI/G	22.723	1.14
8F003-3	0.5	2	11/19/2013	0.777	PCI/G	18.743	0.94
8F003-3	2	3	11/19/2013	0.713	PCI/G	17.199	0.86
8F003-3	0	0.5	11/19/2013	0.705	PCI/G	17.006	0.85
8F003-4	0.5	2	11/19/2013	0.892	PCI/G	21.517	1.08
8F003-4	2	3	11/19/2013	0.67	PCI/G	16.162	0.81
8F003-4	0	0.5	11/19/2013	0.723	PCI/G	17.440	0.87
8F003-5	0.5	2	6/24/2014	0.931	PCI/G	22.458	1.12
8F003-5	2	3	6/24/2014	1.02	PCI/G	24.605	1.23
8F003-5	0	0.5	6/24/2014	0.862	PCI/G	20.793	1.04
8F003-6	0.5	2	6/24/2014	0.859	PCI/G	20.721	1.04
8F003-6	2	3	6/24/2014	0.714	PCI/G	17.223	0.86
8F003-6	0	0.5	6/24/2014	0.743	PCI/G	17.923	0.90
8F003-7	0.5	2	6/24/2014	0.778	PCI/G	18.767	0.94
8F003-7	2	3	6/24/2014	0.587	PCI/G	14.160	0.71
8F003-7	0	0.5	6/24/2014	0.873	PCI/G	21.059	1.05
8F003-8	0.5	2	6/24/2014	0.678	PCI/G	16.355	0.82
8F003-8	2	3	6/24/2014	0.815	PCI/G	19.660	0.98
8F003-8	0	0.5	6/24/2014	0.585	PCI/G	14.111	0.71
8F004	0	0.5	9/8/2001	2.13	MG/KG	17.459	0.87
8F005	1	1.5	9/8/2001	2.09	MG/KG	17.131	0.86
8F005	0	0.5	9/8/2001	4.33	MG/KG	35.492	1.77
8F006	1	1.5	9/8/2001	2.73	MG/KG	22.377	1.12
8F006	0	0.5	9/8/2001	6.63	MG/KG	54.344	2.72
8F006-1	0.5	2	11/25/2013	0.881	PCI/G	21.252	1.06
8F006-1	2	3	11/25/2013	0.811	PCI/G	19.563	0.98
8F006-1	0	0.5	11/25/2013	1.07	PCI/G	25.811	1.29
8F006-2	0.5	2	11/25/2013	0.839	PCI/G	20.239	1.01
8F006-2	2	3	11/25/2013	0.744	PCI/G	17.947	0.90
8F006-2	0	0.5	11/25/2013	1.36	PCI/G	32.806	1.64
8F006-3	1	2	11/25/2013	1	PCI/G	24.122	1.21

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
8F006-3	0.5	2	11/25/2013	1.19	PCI/G	28.705	1.44
8F006-3	2	3	11/25/2013	0.925	PCI/G	22.313	1.12
8F006-3	0	0.5	11/25/2013	0.811	PCI/G	19.563	0.98
8F006-4	0.5	2	11/25/2013	0.817	PCI/G	19.708	0.99
8F006-4	2	3	11/25/2013	0.865	PCI/G	20.866	1.04
8F006-4	0	0.5	11/25/2013	0.73	PCI/G	17.609	0.88
8F006-5	0.5	2	12/9/2013	1.1	PCI/G	26.534	1.33
8F006-5	2	3	12/9/2013	0.627	PCI/G	15.125	0.76
8F006-5	0	0.5	12/9/2013	0.715	PCI/G	17.247	0.86
8F006-6	0.5	2	12/9/2013	1.12	PCI/G	27.017	1.35
8F006-6	2	3	12/9/2013	0.903	PCI/G	21.782	1.09
8F006-6	0	0.5	12/9/2013	2.04	PCI/G	49.209	2.46
8F007	0	0.5	9/8/2001	1.92	MG/KG	15.738	0.79
8G001	0	0.5	10/6/2001	1.84	MG/KG	15.082	0.75
8G002	0	0.5	10/6/2001	1.73	MG/KG	14.180	0.71
8G003	0	0.5	10/6/2001	1.86	MG/KG	15.246	0.76
8G004	0	0.5	10/6/2001	2.07	MG/KG	16.967	0.85
8G005	0	0.5	10/6/2001	2.54	MG/KG	20.820	1.04
8H001	0	0.5	11/18/2001	10.4	MG/KG	85.246	4.26
8H001-1	0.5	2	12/4/2013	0.936	PCI/G	22.578	1.13
8H001-1	2	3	12/4/2013	0.906	PCI/G	21.855	1.09
8H001-1	0	0.5	12/4/2013	1.16	PCI/G	27.982	1.40
8H001-2	0	0.5	12/5/2013	1.78	PCI/G	42.938	2.15
8H001-3	0.5	2	12/4/2013	1.14	PCI/G	27.499	1.37
8H001-3	2	3	12/4/2013	1.25	PCI/G	30.153	1.51
8H001-3	0	0.5	12/4/2013	1.23	PCI/G	29.670	1.48
8H001-4	0	0.5	12/5/2013	1.13	PCI/G	27.258	1.36
8H001-5	0.5	2	12/5/2013	1.46	PCI/G	35.218	1.76
8H001-5	2	3	12/5/2013	0.535	PCI/G	12.905	0.65
8H001-5	0	0.5	12/5/2013	1.5	PCI/G	36.183	1.81
8H001-6	0.5	2	12/5/2013	1.36	PCI/G	32.806	1.64
8H001-6	2	3	12/5/2013	1.22	PCI/G	29.429	1.47
8H001-6	0	0.5	12/5/2013	1.36	PCI/G	32.806	1.64
8H002	0	0.5	11/18/2001	11.3	MG/KG	92.623	4.63
8H002-1	0.5	2	12/4/2013	1.13	PCI/G	27.258	1.36
8H002-1	2	3	12/4/2013	1.98	PCI/G	47.762	2.39
8H002-1	0	0.5	12/4/2013	1.77	PCI/G	42.696	2.13
8H002-2	0.5	2	12/4/2013	2.16	PCI/G	52.104	2.61
8H002-2	2	3	12/4/2013	1.59	PCI/G	38.354	1.92
8H002-2	0	0.5	12/4/2013	2.34	PCI/G	56.446	2.82
8H002-3	0.5	2	12/4/2013	1.64	PCI/G	39.560	1.98
8H002-3	2	3	12/4/2013	0.942	PCI/G	22.723	1.14
8H002-3	0	0.5	12/4/2013	1.35	PCI/G	32.565	1.63
8H002-4	0.5	2	12/4/2013	1.94	PCI/G	46.797	2.34
8H002-4	2	3	12/4/2013	0.963	PCI/G	23.230	1.16
8H002-4	0	0.5	12/4/2013	1.69	PCI/G	40.767	2.04
913-1	0.5	2	11/18/2013	0.698	PCI/G	16.837	0.84
913-1	2	3	11/18/2013	0.637	PCI/G	15.366	0.77
913-1	0	0.5	11/18/2013	0.79	PCI/G	19.057	0.95
913-2	0.5	2	11/18/2013	0.818	PCI/G	19.732	0.99
913-2	2	3	11/18/2013	0.62	PCI/G	14.956	0.75

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913-2	0	0.5	11/18/2013	0.854	PCI/G	20.600	1.03
913-3	0.5	2	11/18/2013	0.536	PCI/G	12.929	0.65
913-3	0	0.5	11/18/2013	0.671	PCI/G	16.186	0.81
CORE01	0.5	0.5	10/5/2003	2.53	MG/KG	20.738	1.04
CORE02	0.5	0.5	10/5/2003	0.724	MG/KG	5.934	0.30
CORE03	1.5	1.5	10/5/2003	1.61	MG/KG	13.197	0.66
CORE04	0.5	0.5	10/5/2003	2.77	MG/KG	22.705	1.14
CORE05	0.5	0.5	10/6/2003	1.31	MG/KG	10.738	0.54
CORE06	0.5	0.5	10/5/2003	2.55	MG/KG	20.902	1.05
CORE07	0.5	0.5	10/7/2003	1.52	MG/KG	12.459	0.62
CORE08	0.5	0.5	10/5/2003	1.93	MG/KG	15.820	0.79
CORE09	0.5	0.5	10/6/2003	1.88	MG/KG	15.410	0.77
CORE10	0.5	0.5	10/5/2003	2.01	MG/KG	16.475	0.82
EU011	2	2	7/8/2003	1.71	MG/KG	14.470	0.72
EU011	0	0.5	7/8/2003	1.85	MG/KG	15.164	0.76
EU012	1	1	7/8/2003	1.93	MG/KG	15.820	0.79
EU013	1	1	7/8/2003	2.04	MG/KG	16.721	0.84
EU014	1	1	7/8/2003	3.95	MG/KG	32.377	1.62
EU021	1	1	7/9/2003	2.13	MG/KG	17.459	0.87
EU021	0	0.5	7/9/2003	1.98	MG/KG	16.230	0.81
EU022	2	2	7/9/2003	1.91	MG/KG	15.656	0.78
EU022	0	0.5	7/9/2003	1.61	MG/KG	13.197	0.66
EU023	2	2	7/9/2003	1.25	MG/KG	10.246	0.51
EU031	2	2	7/9/2003	0.566	MG/KG	4.639	0.23
EU031	0	0.5	7/9/2003	1.61	MG/KG	13.197	0.66
EU032	1	1	7/9/2003	2.1	MG/KG	17.213	0.86
EU032	0	0.5	7/9/2003	2.29	MG/KG	18.770	0.94
EU041	1	1	7/10/2003	1.96	MG/KG	16.066	0.80
EU042	1	1	7/10/2003	0.702	MG/KG	5.754	0.29
EU051	1	1	7/10/2003	2.41	MG/KG	19.754	0.99
EU051	0	0.5	7/10/2003	5	MG/KG	40.984	2.05
EU052	1.5	1.5	7/10/2003	2.52	MG/KG	20.656	1.03
EU061	2	2	7/10/2003	0.828	MG/KG	6.787	0.34
EU061	0	0.5	7/10/2003	1.64	MG/KG	13.443	0.67
EU061-1	0.5	2	11/7/2013	1.03	PCI/G	24.846	1.24
EU061-1	2	3	11/7/2013	1.1	PCI/G	26.534	1.33
EU061-1	0	0.5	11/7/2013	1.24	PCI/G	29.912	1.50
EU061-2	0.5	2	11/7/2013	0.903	PCI/G	21.782	1.09
EU061-2	2	3	11/7/2013	0.774	PCI/G	18.671	0.93
EU061-2	0	0.5	11/7/2013	0.692	PCI/G	16.693	0.83
EU061-3	0.5	2	11/7/2013	0.888	PCI/G	21.421	1.07
EU061-3	2	3	11/7/2013	0.619	PCI/G	14.932	0.75
EU061-3	0	0.5	11/7/2013	0.658	PCI/G	15.872	0.79
EU061-4	0.5	2	11/7/2013	0.945	PCI/G	22.795	1.14
EU061-4	2	3	11/7/2013	0.989	PCI/G	23.857	1.19
EU061-4	0	0.5	11/7/2013	0.66	PCI/G	15.921	0.80
EU062	2	2	7/10/2003	1.12	MG/KG	9.180	0.46
EU062	0	0.5	7/10/2003	2.24	MG/KG	18.361	0.92
EU071	2	2	7/10/2003	2.54	MG/KG	20.820	1.04
EU071	0	0.5	7/10/2003	3.24	MG/KG	26.557	1.33
EU072	1.5	1.5	7/10/2003	1.92	MG/KG	15.738	0.79

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
EU072	0	0.5	7/10/2003	2.53	MG/KG	20.738	1.04
EU081	1.5	1.5	7/11/2003	5.32	MG/KG	43.607	2.18
EU081	0	0.5	7/11/2003	3	MG/KG	24.590	1.23
EU082	1.5	1.5	7/11/2003	4.18	MG/KG	34.262	1.71
EU091	2	2	7/11/2003	1.58	MG/KG	12.951	0.65
EU091	0	0.5	7/11/2003	1.41	MG/KG	11.557	0.58
EU092	2	2	7/11/2003	1.69	MG/KG	13.852	0.69
EU092	0	0.5	7/11/2003	2.55	MG/KG	20.902	1.05
EU093	2	2	7/11/2003	3.1	MG/KG	25.410	1.27
EU093	0	0.5	7/11/2003	2.93	MG/KG	24.016	1.20
EU101	1	1	7/11/2003	3.33	MG/KG	27.295	1.36
EU101	0	0.5	7/11/2003	2.92	MG/KG	23.934	1.20
EU102	2	2	7/11/2003	69.4	MG/KG	568.852	28.44
EU102	0	0.5	7/11/2003	3.48	MG/KG	28.525	1.43
EU103	1	1	7/11/2003	4.33	MG/KG	35.492	1.77
EU103	0	0.5	7/11/2003	2.32	MG/KG	19.016	0.95
EU111	1.5	1.5	7/12/2003	3.08	MG/KG	25.246	1.26
EU111	0	0.5	7/12/2003	4.14	MG/KG	33.934	1.70
EU113	0	0.5	7/12/2003	2.03	MG/KG	16.639	0.83
EU121	0	0.5	7/12/2003	15.4	MG/KG	126.230	6.31
EU122	0	0.5	7/12/2003	3.11	MG/KG	25.492	1.27
EU123	0	0.5	7/12/2003	3.64	MG/KG	29.836	1.49
EU141	0	0.5	7/12/2003	5.73	MG/KG	46.967	2.35
GWS-02	0.5	2	11/25/2013	0.865	PCI/G	20.866	1.04
GWS-02	2	3	11/25/2013	1	PCI/G	24.122	1.21
GWS-02	0	0.5	11/25/2013	3.1	PCI/G	74.779	3.74
GWS-03	0.5	2	11/25/2013	0.812	PCI/G	19.587	0.98
GWS-03	1	2	11/25/2013	0.793	PCI/G	19.129	0.96
GWS-03	2	3	11/25/2013	0.677	PCI/G	16.331	0.82
GWS-03	0	0.5	11/25/2013	2.63	PCI/G	63.441	3.17
GWS-04	0.5	2	11/19/2013	0.724	PCI/G	17.464	0.87
GWS-04	2	3	11/19/2013	0.794	PCI/G	19.153	0.96
GWS-04	0	0.5	11/19/2013	0.795	PCI/G	19.177	0.96
GWS-05	0.5	2	11/25/2013	0.707	PCI/G	17.054	0.85
GWS-05	2	3	11/25/2013	0.782	PCI/G	18.864	0.94
GWS-05	0	0.5	11/25/2013	0.591	PCI/G	14.256	0.71
GWS-06	0.5	2	11/14/2013	0.8545	PCI/G	20.612	1.03
GWS-06	0	0.5	11/14/2013	1.23	PCI/G	29.670	1.48
GWS-06-1	0.5	2	6/25/2014	0.721	PCI/G	17.392	0.87
GWS-06-1	2	3	6/25/2014	0.725	PCI/G	17.489	0.87
GWS-06-1	0	0.5	6/25/2014	0.691	PCI/G	16.668	0.83
GWS-06-2	0.5	2	6/25/2014	0.882	PCI/G	21.276	1.06
GWS-06-2	2	3	6/25/2014	0.872	PCI/G	21.035	1.05
GWS-06-2	0	0.5	6/25/2014	0.888	PCI/G	21.421	1.07
GWS-06-3	0.5	2	6/25/2014	0.977	PCI/G	23.567	1.18
GWS-06-3	2	3	6/25/2014	0.596	PCI/G	14.377	0.72
GWS-06-3	0	0.5	6/25/2014	0.805	PCI/G	19.418	0.97
GWS-07	0.5	2	11/14/2013	0.567	PCI/G	13.677	0.68
GWS-07	2	3	11/14/2013	0.78	PCI/G	18.815	0.94
GWS-07	0	0.5	11/14/2013	0.767	PCI/G	18.502	0.93
GWS-08	0.5	2	11/26/2013	0.92	PCI/G	22.192	1.11

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Predicted Total Uranium Concentrations in Water
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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
GWS-08	2	3	11/26/2013	0.727	PCI/G	17.537	0.88
GWS-08	0	0.5	11/26/2013	1.47	PCI/G	35.460	1.77
GWS-09	0.5	2	11/27/2013	9.75	PCI/G	235.191	11.76
GWS-09	2	3	11/27/2013	0.832	PCI/G	20.070	1.00
GWS-09	0	0.5	11/27/2013	3.1	PCI/G	74.779	3.74
GWS-09-1	0.5	2	6/30/2014	0.767	PCI/G	18.502	0.93
GWS-09-1	2	3	6/30/2014	0.732	PCI/G	17.657	0.88
GWS-09-1	0	0.5	6/30/2014	0.73	PCI/G	17.609	0.88
GWS-09-2	0.5	2	6/30/2014	1.09	PCI/G	26.293	1.31
GWS-09-2	2	3	6/30/2014	0.813	PCI/G	19.611	0.98
GWS-09-2	0	0.5	6/30/2014	0.713	PCI/G	17.199	0.86
GWS-09-3	0.5	2	6/30/2014	0.573	PCI/G	13.822	0.69
GWS-09-3	2	3	6/30/2014	0.784	PCI/G	18.912	0.95
GWS-09-3	0	0.5	6/30/2014	0.735	PCI/G	17.730	0.89
GWS-11	0.5	2	12/5/2013	0.995	PCI/G	24.002	1.20
GWS-11	2	3	12/5/2013	1.45	PCI/G	34.977	1.75
GWS-11	0	0.5	12/5/2013	2.03	PCI/G	48.968	2.45
GWS-11-1	0.5	2	6/19/2014	1.53	PCI/G	36.907	1.85
GWS-11-1	2	3	6/19/2014	1.17	PCI/G	28.223	1.41
GWS-11-1	0	0.5	6/19/2014	1.94	PCI/G	46.797	2.34
GWS-12	0.5	2	12/5/2013	1.41	PCI/G	34.012	1.70
GWS-12	2	3	12/5/2013	0.825	PCI/G	19.901	1.00
GWS-12	0	0.5	12/5/2013	1.53	PCI/G	36.907	1.85
GWS-13	0.5	2	12/5/2013	1.58	PCI/G	38.113	1.91
GWS-13	2	3	12/5/2013	0.888	PCI/G	21.421	1.07
GWS-13	0	0.5	12/5/2013	0.668	PCI/G	16.114	0.81
GWS-14	0.5	2	12/3/2013	1.14	PCI/G	27.499	1.37
GWS-14	2	3	12/3/2013	1.52	PCI/G	36.666	1.83
GWS-15	0.5	2	12/13/2013	1.1	PCI/G	26.534	1.33
GWS-15	2	3	12/13/2013	0.777	PCI/G	18.743	0.94
GWS-15	0	0.5	12/13/2013	1.64	PCI/G	39.560	1.98
GWS-18	2	3	11/7/2013	0.605	PCI/G	14.594	0.73
GWS-18	0	0.5	11/7/2013	0.914	PCI/G	22.048	1.10
GWS-18-1	0.5	2	6/30/2014	0.959	PCI/G	23.133	1.16
GWS-18-1	2	3	6/30/2014	0.758	PCI/G	18.285	0.91
GWS-18-1	0	0.5	6/30/2014	1.26	PCI/G	30.394	1.52
GWS-18-2	0.5	2	6/30/2014	0.648	PCI/G	15.631	0.78
GWS-18-2	2	3	6/30/2014	0.828	PCI/G	19.973	1.00
GWS-18-2	0	0.5	6/30/2014	0.694	PCI/G	16.741	0.84
GWS-18-3	0.5	2	6/30/2014	0.558	PCI/G	13.460	0.67
GWS-18-3	0	0.5	6/30/2014	1.16	PCI/G	27.982	1.40
GWS-18-4	0.5	2	6/30/2014	0.776	PCI/G	18.719	0.94
GWS-18-4	2	3	6/30/2014	0.616	PCI/G	14.859	0.74
GWS-18-4	0	0.5	6/30/2014	1.17	PCI/G	28.223	1.41
GWS-19	1	2	11/7/2013	1.28	PCI/G	30.876	1.54
GWS-19	0.5	2	11/7/2013	1.4835	PCI/G	35.785	1.79
GWS-19	2	3	11/7/2013	0.558	PCI/G	13.460	0.67
GWS-19	3	4	11/7/2013	0.588	PCI/G	14.184	0.71
GWS-19	4	5	11/7/2013	0.578	PCI/G	13.943	0.70
GWS-19	0	0.5	11/7/2013	0.826	PCI/G	19.925	1.00
GWS-19-1	0.5	2	7/1/2014	0.96	PCI/G	23.157	1.16

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
GWS-19-1	2	3	7/1/2014	0.657	PCI/G	15.848	0.79
GWS-19-1	0	0.5	7/1/2014	0.938	PCI/G	22.627	1.13
GWS-19-2	0.5	2	7/1/2014	0.883	PCI/G	21.300	1.06
GWS-19-2	2	3	7/1/2014	0.656	PCI/G	15.824	0.79
GWS-19-2	0	0.5	7/1/2014	0.765	PCI/G	18.453	0.92
GWS-19-3	0.5	2	7/1/2014	0.797	PCI/G	19.225	0.96
GWS-19-3	2	3	7/1/2014	0.664	PCI/G	16.017	0.80
GWS-19-3	0	0.5	7/1/2014	0.71	PCI/G	17.127	0.86
GWS-19-4	0.5	2	7/1/2014	0.548	PCI/G	13.219	0.66
GWS-19-4	2	3	7/1/2014	0.666	PCI/G	16.065	0.80
GWS-19-4	2	3	7/1/2014	0.586	PCI/G	14.136	0.71
GWS-19-4	0	0.5	7/1/2014	0.806	PCI/G	19.442	0.97
GWS-20	0.5	2	11/7/2013	0.665	PCI/G	16.041	0.80
GWS-20	2	3	11/7/2013	0.872	PCI/G	21.035	1.05
GWS-20	0	0.5	11/7/2013	1.01	PCI/G	24.363	1.22
GWS-21	0.5	2	11/7/2013	0.851	PCI/G	20.528	1.03
GWS-21	2	3	11/7/2013	0.898	PCI/G	21.662	1.08
GWS-21	0	0.5	11/7/2013	4.45	PCI/G	107.344	5.37
GWS-22	0.5	2	11/7/2013	0.812	PCI/G	19.587	0.98
GWS-22	0	0.5	11/7/2013	3.61	PCI/G	87.081	4.35
GWS-23	0.5	2	11/7/2013	0.807	PCI/G	19.467	0.97
GWS-23	2	3	11/7/2013	0.589	PCI/G	14.208	0.71
GWS-23	0	0.5	11/7/2013	4.25	PCI/G	102.519	5.13
GWS-24	2	3	11/7/2013	0.69	PCI/G	16.644	0.83
GWS-24	0	0.5	11/7/2013	1.72	PCI/G	41.490	2.07
GWS-26	0.5	2	6/20/2014	143	PCI/G	3449.474	172.47
GWS-26	2	3	6/20/2014	1.82	PCI/G	43.902	2.20
GWS-26	0	0.5	6/20/2014	358	PCI/G	8635.745	431.79
GWS-27	0.5	2	6/18/2014	1.08	PCI/G	26.052	1.30
GWS-27	2	3	6/18/2014	1.11	PCI/G	26.776	1.34
GWS-27	0	0.5	6/18/2014	1.32	PCI/G	31.841	1.59
IE01	0	0.5	12/5/2012	2.74	MG/KG	22.459	1.12
IE01	6	7.5	12/5/2012	2.23	MG/KG	18.279	0.91
IE01	3	3.5	12/5/2012	4.75	MG/KG	38.934	1.95
IE01	9.5	10	12/5/2012	2.37	MG/KG	19.426	0.97
IE02	0	0.5	12/5/2012	3	MG/KG	24.590	1.23
IE02	4	4.5	12/5/2012	1.63	MG/KG	13.361	0.67
IE02	3.5	4	12/5/2012	2.56	MG/KG	20.984	1.05
IE02	9	9.5	12/5/2012	2.76	MG/KG	22.623	1.13
IE02	4	4	12/5/2012	0.683	PCI/G	16.475	0.82
IE03	0	0.5	11/30/2012	2.38	MG/KG	19.508	0.98
IE03	3.2	3.6	12/3/2012	3.82	MG/KG	31.311	1.57
IE03	3.2	3.6	12/3/2012	4.55	MG/KG	37.295	1.86
IE03	10.2	10.6	12/3/2012	2.34	MG/KG	19.180	0.96
IE04	0	0.5	12/3/2012	1.24	MG/KG	10.164	0.51
IE04	3.5	4	12/3/2012	3.97	MG/KG	32.541	1.63
IE04	2.8	3.2	12/3/2012	1.54	MG/KG	12.623	0.63
IE04	10	10.5	12/3/2012	2.77	MG/KG	22.705	1.14
IE05	0	0.5	12/6/2012	3.11	MG/KG	25.492	1.27
IE05	2.7	3.2	12/6/2012	1.18	MG/KG	9.672	0.48
IE05	2	2.4	12/6/2012	3.05	MG/KG	25.000	1.25

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
IE05	11	11.5	12/6/2012	1.62	MG/KG	13.279	0.66
IE06	0	0.5	12/6/2012	3.01	MG/KG	24.672	1.23
IE06	2.5	3	12/6/2012	25.4	MG/KG	208.197	10.41
IE06	6	8	12/6/2012	2.76	MG/KG	22.623	1.13
IE06	11.5	12	12/6/2012	3.23	MG/KG	26.475	1.32
IE06	2.5	3	12/6/2012	6.78	PCI/G	163.548	8.18
IE07	0	0.5	11/30/2012	6.15	MG/KG	50.410	2.52
IE07	4.5	5	12/4/2012	45.6	MG/KG	373.770	18.69
IE07	7.5	8	12/4/2012	8.67	MG/KG	71.066	3.55
IE07	9	9.5	12/4/2012	32.2	MG/KG	263.934	13.20
IE07	9	9.5	12/4/2012	41.8	MG/KG	342.623	17.13
IE07	1.2	2.5	12/4/2012	4.93	PCI/G	118.922	5.95
IE07	9	9.5	12/4/2012	6.6	PCI/G	159.206	7.96
IE07	6	6	12/4/2012	12.9	PCI/G	311.176	15.56
IE07	4.5	4.5	12/4/2012	11.2	PCI/G	270.169	13.51
IE07	4	4	12/4/2012	13.9	PCI/G	335.298	16.76
IE07	4.5	5	12/4/2012	12.1	PCI/G	291.879	14.59
IE08	0	0.5	11/30/2012	11.8	MG/KG	96.721	4.84
IE08	3	3.5	12/4/2012	45.9	MG/KG	376.230	18.81
IE08	6.5	7	12/4/2012	12.6	MG/KG	103.279	5.16
IE08	8	9	12/4/2012	6.05	MG/KG	49.590	2.48
IE08	6.5	7	12/4/2012	3.11	PCI/G	75.020	3.75
IE09	8	8	11/25/2013	4.79	PCI/G	115.545	5.78
IE09-1	0	0.5	11/25/2013	11.6	MG/KG	95.082	4.75
IE09-2	3.5	4	11/25/2013	49.5	MG/KG	405.738	20.29
IE09-3	6	6.5	11/25/2013	6.84	MG/KG	56.066	2.80
IE09-4	10	10.5	11/25/2013	3.74	MG/KG	30.656	1.53
IE10-1	0	0.5	12/2/2013	53.7	MG/KG	440.164	22.01
IE10-2	3	4	12/2/2013	23.5	MG/KG	192.623	9.63
IE10-3	3	4	12/2/2013	37.2	MG/KG	304.918	15.25
IE10-4	10	10.5	12/2/2013	2.75	MG/KG	22.541	1.13
IE11-1	0	0.5	12/3/2013	18.9	MG/KG	154.918	7.75
IE11-2	3	4	12/3/2013	52	MG/KG	426.230	21.31
IE11-3	1	2	12/3/2013	26.3	MG/KG	215.574	10.78
IE11-4	10	10.5	12/3/2013	5.51	MG/KG	45.164	2.26
IE12-1	0	0.5	12/4/2013	4.33	MG/KG	35.492	1.77
IE12-2	0	0.5	12/4/2013	4.48	MG/KG	36.721	1.84
IE12-3	3	4	12/4/2013	16.6	MG/KG	136.066	6.80
IE12-4	6	7	12/4/2013	4.54	MG/KG	37.213	1.86
IE12-5	5	6	12/4/2013	9.42	MG/KG	77.213	3.86
IE12-6	6	7	12/4/2013	32.5	MG/KG	266.393	13.32
IE12-7	11	11.5	12/4/2013	3.64	MG/KG	29.836	1.49
IE12-8	11	11.5	12/4/2013	21.5	MG/KG	176.230	8.81
IEMH06-1	0	0.5	11/22/2013	8.04	MG/KG	65.902	3.30
IEMH06-2	3	3.5	11/26/2013	12.6	MG/KG	103.279	5.16
IEMH06-3	2	3	11/26/2013	4.32	MG/KG	35.410	1.77
IEMH06-4	6.5	7	11/26/2013	9.69	MG/KG	79.426	3.97
MH06-01	0.5	2	11/11/2013	4.09	PCI/G	98.660	4.93
MH06-01	2	3	11/11/2013	5.24	PCI/G	126.400	6.32
MH06-01	0	0.5	11/11/2013	3.8	PCI/G	91.664	4.58
MH06-02	0.5	2	11/11/2013	25.25	PCI/G	609.085	30.45

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
MH06-02	2	3	11/11/2013	27	PCI/G	651.299	32.56
MH06-02	3	4	11/11/2013	24.5	PCI/G	590.994	29.55
MH06-02	4	5	11/11/2013	19.5	PCI/G	470.383	23.52
MH06-02	0	0.5	11/11/2013	6.69	PCI/G	161.377	8.07
MH06-03	0.5	2	11/11/2013	0.936	PCI/G	22.578	1.13
MH06-03	2	3	11/11/2013	0.832	PCI/G	20.070	1.00
MH06-03	3	4	11/11/2013	23.3	PCI/G	562.047	28.10
MH06-03	4	5	11/11/2013	5.28	PCI/G	127.365	6.37
MH06-04	0.5	2	11/11/2013	5.12	PCI/G	123.506	6.18
MH06-04	2	3	11/11/2013	2.52	PCI/G	60.788	3.04
MH06-04	0	0.5	11/11/2013	5.89	PCI/G	142.080	7.10
MH06-05	0.5	2	11/11/2013	0.977	PCI/G	23.567	1.18
MH06-05	2	3	11/11/2013	1.03	PCI/G	24.846	1.24
MH06-05	0	0.5	11/11/2013	0.957	PCI/G	23.085	1.15
MH06-06	0.5	2	11/11/2013	1.67	PCI/G	40.284	2.01
MH06-06	2	3	11/11/2013	1.265	PCI/G	30.515	1.53
MH06-06	0	0.5	11/11/2013	1.31	PCI/G	31.600	1.58
MH06-07	0.5	2	11/11/2013	1.16	PCI/G	27.982	1.40
MH06-07	2	3	11/11/2013	1.28	PCI/G	30.876	1.54
MH06-07	0	0.5	11/11/2013	1.01	PCI/G	24.363	1.22
MH06-08	0.5	2	11/11/2013	1.45	PCI/G	34.977	1.75
MH06-08	2	3	11/11/2013	0.973	PCI/G	23.471	1.17
MH06-08	0	0.5	11/11/2013	1.03	PCI/G	24.846	1.24
MH06-09	0.5	2	11/11/2013	0.771	PCI/G	18.598	0.93
MH06-09	2	3	11/11/2013	1.12	PCI/G	27.017	1.35
MH06-09	0	0.5	11/11/2013	0.821	PCI/G	19.804	0.99
MH06-10	0.5	2	11/11/2013	23.2	PCI/G	559.635	27.98
MH06-10	2	3	11/11/2013	30.6	PCI/G	738.139	36.91
MH06-10	2	3	11/11/2013	20.6	PCI/G	496.917	24.85
MH06-10	3	4	11/11/2013	23.7	PCI/G	571.696	28.58
MH06-10	4	5	11/11/2013	6.86	PCI/G	165.478	8.27
MH06-10	0	0.5	11/11/2013	10.3	PCI/G	248.459	12.42
MH06-11	2	3	11/11/2013	2.78	PCI/G	67.060	3.35
MH06-11	3	4	11/11/2013	20.7	PCI/G	499.329	24.97
MH06-11	4	5	11/11/2013	15.2	PCI/G	366.657	18.33
MH06-11	0	0.5	11/11/2013	0.597	PCI/G	14.401	0.72
MH06-12	0.5	2	11/12/2013	5.94	PCI/G	143.286	7.16
MH06-12	2	3	11/12/2013	4.18	PCI/G	100.831	5.04
MH06-12	0	0.5	11/12/2013	4.66	PCI/G	112.409	5.62
MH06-13	0.5	2	11/12/2013	7.64	PCI/G	184.294	9.21
MH06-13	2	3	11/12/2013	12.9	PCI/G	311.176	15.56
MH06-13	0	0.5	11/12/2013	3.46	PCI/G	83.463	4.17
MH06-14	0.5	2	11/12/2013	1.56	PCI/G	37.631	1.88
MH06-14	2	3	11/12/2013	1.5	PCI/G	36.183	1.81
MH06-14	0	0.5	11/12/2013	1.69	PCI/G	40.767	2.04
MH06-15	0.5	2	11/12/2013	0.789	PCI/G	19.032	0.95
MH06-15	2	3	11/12/2013	0.57	PCI/G	13.750	0.69
MH06-15	0	0.5	11/12/2013	0.753	PCI/G	18.164	0.91
MH06-16	0.5	2	11/12/2013	1.09	PCI/G	26.293	1.31
MH06-16	2	3	11/12/2013	0.595	PCI/G	14.353	0.72
MH06-16	0	0.5	11/12/2013	0.847	PCI/G	20.431	1.02

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration (µg/L)	Estimated Groundwater Concentration (µg/L)
MH06-17	0.5	2	11/12/2013	1.24	PCI/G	29.912	1.50
MH06-17	2	3	11/12/2013	1.013	PCI/G	24.436	1.22
MH06-17	0	0.5	11/12/2013	0.865	PCI/G	20.866	1.04
MH06-18	0.5	2	11/12/2013	7.3	PCI/G	176.092	8.80
MH06-18	1	2	11/12/2013	3.6845	PCI/G	88.878	4.44
MH06-18	2	3	11/12/2013	4.03	PCI/G	97.212	4.86
MH06-18	0	0.5	11/12/2013	5.51	PCI/G	132.913	6.65
MH06-19	0.5	2	11/12/2013	3.545	PCI/G	85.513	4.28
MH06-19	2	3	11/12/2013	17.2	PCI/G	414.902	20.75
MH06-19	0	0.5	11/12/2013	1.01	PCI/G	24.363	1.22
MH06-20	0.5	2	11/12/2013	3.6	PCI/G	86.840	4.34
MH06-20	2	3	11/12/2013	3.46	PCI/G	83.463	4.17
MH06-20	0	0.5	11/12/2013	1.7	PCI/G	41.008	2.05
MH06-21	0.5	2	11/12/2013	9.38	PCI/G	226.266	11.31
MH06-21	2	3	11/12/2013	6.14	PCI/G	148.110	7.41
MH06-21	0	0.5	11/12/2013	3.91	PCI/G	94.318	4.72
MH06-22	0.5	2	11/12/2013	20.6	PCI/G	496.917	24.85
MH06-22	2	3	11/12/2013	6.38	PCI/G	153.900	7.69
MH06-22	0	0.5	11/12/2013	7.16	PCI/G	172.715	8.64
MH06-23	0.5	2	11/12/2013	2.53	PCI/G	61.029	3.05
MH06-23	2	3	11/12/2013	2.16	PCI/G	52.104	2.61
MH06-23	0	0.5	11/12/2013	1.82	PCI/G	43.902	2.20
MH06-24	0.5	2	11/12/2013	1.195	PCI/G	28.826	1.44
MH06-24	2	3	11/12/2013	0.845	PCI/G	20.383	1.02
MH06-24	0	0.5	11/12/2013	0.896	PCI/G	21.613	1.08
MH06-25	0.5	2	11/12/2013	1.11	PCI/G	26.776	1.34
MH06-25	2	3	11/12/2013	0.913	PCI/G	22.024	1.10
MH06-25	0	0.5	11/12/2013	3.9	PCI/G	94.077	4.70
MH06-26	0.5	2	11/12/2013	0.69	PCI/G	16.644	0.83
MH06-26	2	3	11/12/2013	0.746	PCI/G	17.995	0.90
MH06-26	3	4	11/12/2013	19.4	PCI/G	467.971	23.40
MH06-27	0.5	2	11/12/2013	2.73	PCI/G	65.854	3.29
MH06-27	2	3	11/12/2013	1.82	PCI/G	43.902	2.20
MH06-27	0	0.5	11/12/2013	6.95	PCI/G	167.649	8.38
MH06-28	0.5	2	11/12/2013	0.906	PCI/G	21.855	1.09
MH06-28	2	3	11/12/2013	0.854	PCI/G	20.600	1.03
MH06-28	0	0.5	11/12/2013	3.17	PCI/G	76.467	3.82
MH06-29	0.5	2	11/12/2013	8.35	PCI/G	201.420	10.07
MH06-29	2	3	11/12/2013	11.4	PCI/G	274.993	13.75
MH06-29	0	0.5	11/12/2013	6.06	PCI/G	146.180	7.31
MH06-30	0.5	2	11/12/2013	8.13	PCI/G	196.113	9.81
MH06-30	2	3	11/12/2013	2.54	PCI/G	61.270	3.06
MH06-30	3	4	11/12/2013	1.36	PCI/G	32.806	1.64
MH06-30	0	0.5	11/12/2013	3.89	PCI/G	93.835	4.69
MH06-31	0.5	2	11/13/2013	1.94	PCI/G	46.797	2.34
MH06-31	2	3	11/13/2013	1.45	PCI/G	34.977	1.75
MH06-31	0	0.5	11/13/2013	0.951	PCI/G	22.940	1.15
MH06-32	0.5	2	11/13/2013	1.81	PCI/G	43.661	2.18
MH06-32	2	3	11/13/2013	6.09	PCI/G	146.904	7.35
MH06-32	0	0.5	11/13/2013	1.77	PCI/G	42.696	2.13
MH06-33	0.5	2	11/13/2013	24	PCI/G	578.933	28.95

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Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
MH06-33	2	3	11/13/2013	4.82	PCI/G	116.269	5.81
MH06-33	0	0.5	11/13/2013	9.81	PCI/G	236.639	11.83
MH06-34	0.5	2	11/13/2013	3.53	PCI/G	85.151	4.26
MH06-34	2	3	11/13/2013	2.06	PCI/G	49.692	2.48
MH06-34	0	0.5	11/13/2013	6.23	PCI/G	150.281	7.51
MH06-35	0.5	2	11/13/2013	3.2	PCI/G	77.191	3.86
MH06-35	2	3	11/13/2013	3.88	PCI/G	93.594	4.68
MH06-35	0	0.5	11/13/2013	1.09	PCI/G	26.293	1.31
MH06-SEEP	9	9	11/21/2013	7.29	PCI/G	175.851	8.79
MW228	11	11	9/19/2003	1.16	MG/KG	9.508	0.48
MW229	11	11	9/18/2003	1.14	MG/KG	9.344	0.47
MW229	28.5	28.5	9/18/2003	0.605	MG/KG	4.959	0.25
MW229	0	0.5	9/18/2003	1.2	MG/KG	9.836	0.49
MW313	11	11	9/17/2003	0.943	MG/KG	7.730	0.39
MW313	0	0.5	9/17/2003	2.4	MG/KG	19.672	0.98
MW314	15	15	9/17/2003	0.586	MG/KG	4.803	0.24
MW314	0	0.5	9/17/2003	1.39	MG/KG	11.393	0.57
MW422	15	15	9/17/2003	0.791	MG/KG	6.484	0.32
MW422	0	0.5	9/17/2003	0.874	MG/KG	7.164	0.36
MW423	15	15	9/16/2003	1.02	MG/KG	8.361	0.42
MW423	0	0.5	9/16/2003	0.905	MG/KG	7.418	0.37
MW424	14	14	9/22/2003	0.666	MG/KG	5.459	0.27
MW424	0	0.5	9/22/2003	1.01	MG/KG	8.279	0.41
MW862	11.5	11.5	9/20/2003	0.652	MG/KG	5.344	0.27
MW862	0	0.5	9/20/2003	1.1	MG/KG	9.016	0.45
MW863	32	32	9/20/2003	0.719	MG/KG	5.893	0.29
MW863	0	0.5	9/20/2003	1.14	MG/KG	9.344	0.47
MW944	10	11	11/18/2012	1.89	MG/KG	15.492	0.77
MW944	13	13.5	11/18/2012	2.5	MG/KG	20.492	1.02
MW944	2	2.5	11/18/2012	3	MG/KG	24.590	1.23
MW944	0	0.5	11/18/2012	2.14	MG/KG	17.541	0.88
MW945	12.5	13	11/18/2012	2.05	MG/KG	16.803	0.84
MW945	12.5	13	11/18/2012	1.97	MG/KG	16.148	0.81
MW945	3.5	4	11/18/2012	3.2	MG/KG	26.230	1.31
MW945	9.5	10	11/18/2012	2.11	MG/KG	17.295	0.86
MW945	0	0.5	11/18/2012	2.35	MG/KG	19.262	0.96
MW945	3.5	4	11/18/2012	2.12	PCI/G	51.139	2.56
MW946	12	12.5	11/14/2012	2.56	MG/KG	20.984	1.05
MW946	6	6.5	11/14/2012	2.64	MG/KG	21.639	1.08
MW946	8	8.5	11/14/2012	1.83	MG/KG	15.000	0.75
MW946	0	0.5	11/13/2012	2.44	MG/KG	20.000	1.00
MW946	12	12.5	11/14/2012	0.652	PCI/G	15.728	0.79
MW947	14	14.5	11/14/2012	1.8	MG/KG	14.754	0.74
MW947	18	18.5	11/14/2012	3.01	MG/KG	24.672	1.23
MW947	2	2.5	11/14/2012	2.79	MG/KG	22.869	1.14
MW947	0	0.5	11/14/2012	2.65	MG/KG	21.721	1.09
MW947	18	18.5	11/14/2012	0.934	PCI/G	22.530	1.13
MW948	10	10.5	11/16/2012	2.52	MG/KG	20.656	1.03
MW948	13	13.5	11/16/2012	2.27	MG/KG	18.607	0.93
MW948	13	13.5	11/16/2012	2.32	MG/KG	19.016	0.95
MW948	5.5	6	11/16/2012	2.55	MG/KG	20.902	1.05

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
MW948	0	0.5	11/16/2012	2.7	MG/KG	22.131	1.11
MW948	5.5	6	11/16/2012	0.671	PCI/G	16.186	0.81
MW949	16	16.5	11/17/2012	2.56	MG/KG	20.984	1.05
MW949	29.5	30	11/17/2012	2.95	MG/KG	24.180	1.21
MW949	34.5	35	11/17/2012	2.05	MG/KG	16.803	0.84
MW949	0	0.5	11/15/2012	2.62	MG/KG	21.475	1.07
MW949	29.5	30	11/17/2012	0.694	PCI/G	16.741	0.84
MW950	10.5	11	11/11/2012	2.16	MG/KG	17.705	0.89
MW950	10.5	11	11/11/2012	2.46	MG/KG	20.164	1.01
MW950	15	15.5	11/11/2012	2.55	MG/KG	20.902	1.05
MW950	2	2.5	11/11/2012	3.58	MG/KG	29.344	1.47
MW950	0	0.5	11/11/2012	3.24	MG/KG	26.557	1.33
MW950	2	2.5	11/11/2012	1.12	PCI/G	27.017	1.35
MW951	15	15.5	11/10/2012	2.02	MG/KG	16.557	0.83
MW951	12.5	18	11/10/2012	2.57	MG/KG	21.066	1.05
MW951	18.5	19	11/10/2012	2.18	MG/KG	17.869	0.89
MW951	0	0.5	11/10/2012	4.21	MG/KG	34.508	1.73
MW951	17.5	18	11/10/2012	0.885	PCI/G	21.348	1.07
MW952	4	4.5	11/19/2012	3.99	MG/KG	32.705	1.64
MW952	6	6.5	11/19/2012	3.08	MG/KG	25.246	1.26
MW952	6.5	7	11/19/2012	2.6	MG/KG	21.311	1.07
MW952	6.5	7	11/19/2012	2.64	MG/KG	21.639	1.08
MW952	0	0.5	11/19/2012	15.9	MG/KG	130.328	6.52
MW952	6	6.5	11/19/2012	1.08	PCI/G	26.052	1.30
MW953	1	2	11/19/2012	45.3	MG/KG	371.311	18.57
MW953	4	4.5	11/19/2012	54.4	MG/KG	445.902	22.30
MW953	6	6.5	11/20/2012	31.4	MG/KG	257.377	12.87
MW953	0	0.5	11/19/2012	18.5	MG/KG	151.639	7.58
MW953	1	2	11/19/2012	14.1	PCI/G	340.123	17.01
MW954	2	2.5	11/20/2012	17.4	MG/KG	142.623	7.13
MW954	5.5	6	11/20/2012	4.95	MG/KG	40.574	2.03
MW954	8.5	9	11/20/2012	2.13	MG/KG	17.459	0.87
MW954	8.5	9	11/20/2012	2.24	MG/KG	18.361	0.92
MW954	0	0.5	11/20/2012	12.2	MG/KG	100.000	5.00
MW955	2.5	3	11/20/2012	23.1	MG/KG	189.344	9.47
MW955	7	8	11/20/2012	1.64	MG/KG	13.443	0.67
MW955	0	0.5	11/20/2012	51.4	MG/KG	421.311	21.07
MW955	2.5	3	11/20/2012	4.775	PCI/G	115.183	5.76
MW956	15.5	16	11/12/2012	5.01	MG/KG	41.066	2.05
MW956	15.5	16	11/12/2012	2.25	MG/KG	18.443	0.92
MW956	16.5	17	11/12/2012	2.31	MG/KG	18.934	0.95
MW956	2.5	3	11/12/2012	2.52	MG/KG	20.656	1.03
MW956	0	0.5	11/12/2012	2.98	MG/KG	24.426	1.22
MW957	2	2.5	11/13/2012	3.12	MG/KG	25.574	1.28
MW957	4	4.5	11/13/2012	30.6	MG/KG	250.820	12.54
MW957	7	7.5	11/13/2012	4.66	MG/KG	38.197	1.91
MW957	0	0.5	11/13/2012	2.79	MG/KG	22.869	1.14
MW957	2	2.5	11/13/2012	1.07	PCI/G	25.811	1.29
MW958	4.5	5	11/13/2012	4.77	MG/KG	39.098	1.95
MW958	7.5	8	11/13/2012	3.31	MG/KG	27.131	1.36
MW958	7.5	8	11/13/2012	3.18	MG/KG	26.066	1.30

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
MW958	8.5	9	11/13/2012	3.2	MG/KG	26.230	1.31
MW958	0	0.5	11/13/2012	3.07	MG/KG	25.164	1.26
MW958	7.5	8	11/13/2012	0.983	PCI/G	23.712	1.19
MW959	13	13.5	11/12/2012	4.33	MG/KG	35.492	1.77
MW959	14	14.5	11/12/2012	2.61	MG/KG	21.393	1.07
MW959	8	8.5	11/12/2012	3.53	MG/KG	28.934	1.45
MW959	0	0.5	11/12/2012	2.26	MG/KG	18.525	0.93
MW959	8	8.5	11/12/2012	0.723	PCI/G	17.440	0.87
MW960	12	12.5	11/11/2012	2.51	MG/KG	20.574	1.03
MW960	2	3	11/11/2012	29.1	MG/KG	238.525	11.93
MW960	9.5	10	11/11/2012	2.86	MG/KG	23.443	1.17
MW960	0	0.5	11/11/2012	2.97	MG/KG	24.344	1.22
MW960	2	3	11/11/2012	9.3	PCI/G	224.336	11.22
OTFL11	13	13	10/1/2003	2.5	MG/KG	20.492	1.02
OTFL12	13.5	13.5	10/1/2003	1.7	MG/KG	13.934	0.70
PE1	15	15.5	11/28/2012	2.9	MG/KG	23.770	1.19
PE2	9	9.5	11/20/2012	0.694	PCI/G	16.741	0.84
PE2	9	9.5	11/20/2012	2.31	MG/KG	18.934	0.95
PE2	9	9.5	11/20/2012	2.09	MG/KG	17.131	0.86
PE2	9	9.5	11/20/2012	2.58	MG/KG	21.148	1.06
PE3	8	8.5	11/13/2012	5.26	MG/KG	43.115	2.16
PE3	8	8.5	11/13/2012	4.26	MG/KG	34.918	1.75
PE3	8	8.5	11/13/2012	3.75	MG/KG	30.738	1.54
PE3	8	8.5	11/13/2012	3.08	MG/KG	25.246	1.26
PE3	10	11	11/15/2012	4.24	MG/KG	34.754	1.74
PE4	7	7.5	12/11/2012	0.779	PCI/G	18.791	0.94
PE4	7.5	8	12/11/2012	0.629	PCI/G	15.173	0.76
PE4	7.1	7.6	12/12/2012	3.73	MG/KG	30.574	1.53
PE4	7	7.5	12/11/2012	2.55	MG/KG	20.902	1.05
PE4	7.5	8	12/11/2012	2.3	MG/KG	18.852	0.94
PE4	7.5	8	12/11/2012	1.95	MG/KG	15.984	0.80
PE5	6.1	6.5	12/14/2012	2.06	MG/KG	16.885	0.84
PE5	6	6.5	12/14/2012	1.67	MG/KG	13.689	0.68
PE5	6	6.5	12/14/2012	1.91	MG/KG	15.656	0.78
PE5	7.1	7.6	12/13/2012	2.02	MG/KG	16.557	0.83
PE6	5	5.5	12/10/2012	2.7	MG/KG	22.131	1.11
PE6	5	5.5	12/10/2012	2.76	MG/KG	22.623	1.13
PIPE74	7	7	10/3/2003	1.78	MG/KG	14.590	0.73
S31D-NS-SEWER-B	10	10	11/21/2013	2.35	PCI/G	56.687	2.83
S31D-NS-SEWER-E	8	8	11/21/2013	7.46	PCI/G	179.952	9.00
S31D-NS-SEWER-W	8	8	11/21/2013	2.95	PCI/G	71.160	3.56
SB-MH06A	8.5	8.5	10/1/2003	2.85	MG/KG	23.361	1.17
SB-MH07	11	11	9/30/2003	2.1	MG/KG	17.213	0.86
SB-MH07/08	11	11	10/1/2003	1.72	MG/KG	14.098	0.70
SB-MH08	11	11	10/1/2003	1.55	MG/KG	12.705	0.64
SB-MH41	8	8	10/1/2003	1.63	MG/KG	13.361	0.67
SB-MH43	9	9	10/1/2003	1.67	MG/KG	13.689	0.68
SB-MH45	9	9	10/1/2003	1.14	MG/KG	9.344	0.47
SP-01	0.5	2	11/8/2013	74.4	PCI/G	1794.691	89.73
SP-01	2	3	11/8/2013	20.9	PCI/G	504.154	25.21
SP-01	3	4	11/8/2013	6.62	PCI/G	159.689	7.98

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SP-01	0	0.5	11/8/2013	2.83	PCI/G	68.266	3.41
SP-09	1.5	2	11/13/2013	2.59	PCI/G	62.476	3.12
SP-13	1	2	11/20/2013	38.1	PCI/G	919.056	45.95
SP-13	0.5	2	11/20/2013	44	PCI/G	1061.377	53.07
SP-13	2	3	11/20/2013	2.92	PCI/G	70.437	3.52
SP-13	0	0.5	11/20/2013	71.4	PCI/G	1722.325	86.12
SP-14	0.5	2	11/26/2013	0.83	PCI/G	20.021	1.00
SP-14	2	3	11/26/2013	1.15	PCI/G	27.741	1.39
SP-14	0	0.5	11/26/2013	5.64	PCI/G	136.049	6.80
SP-14-1	2	3	6/27/2014	0.834	PCI/G	20.118	1.01
SP-14-1	0	0.5	6/27/2014	0.763	PCI/G	18.405	0.92
SP-15	0.5	2	11/27/2013	0.843	PCI/G	20.335	1.02
SP-15	2	3	11/27/2013	0.899	PCI/G	21.686	1.08
SP-15	0	0.5	11/27/2013	7.11	PCI/G	171.509	8.58
SP-16	0.5	2	11/25/2013	3.06	PCI/G	73.814	3.69
SP-16	2	3	11/25/2013	0.645	PCI/G	15.559	0.78
SP-16	0	0.5	11/25/2013	4.55	PCI/G	109.756	5.49
SP-17	0.5	2	12/5/2013	1.35	PCI/G	32.565	1.63
SP-17	2	3	12/5/2013	0.926	PCI/G	22.337	1.12
SP-17	0	0.5	12/5/2013	0.647	PCI/G	15.607	0.78
SP-18	1	2	12/13/2013	1.73	PCI/G	41.731	2.09
SP-18	0.5	2	12/13/2013	4.11	PCI/G	99.142	4.96
SP-18	2	3	12/13/2013	1.26	PCI/G	30.394	1.52
SP-18	0	0.5	12/13/2013	19.1	PCI/G	460.734	23.04
SP-18-1	0.5	2	6/19/2014	1.18	PCI/G	28.464	1.42
SP-18-1	2	3	6/19/2014	0.927	PCI/G	22.361	1.12
SP-18-1	3	4	6/19/2014	0.817	PCI/G	19.708	0.99
SP-18-1	4	5	6/19/2014	0.761	PCI/G	18.357	0.92
SP-18-1	0	0.5	6/19/2014	1.37	PCI/G	33.047	1.65
SP-18-2	0.5	2	6/19/2014	0.834	PCI/G	20.118	1.01
SP-18-2	2	3	6/19/2014	1.45	PCI/G	34.977	1.75
SP-18-2	3	4	6/19/2014	0.873	PCI/G	21.059	1.05
SP-18-2	4	5	6/19/2014	0.622	PCI/G	15.004	0.75
SP-18-2	0	0.5	6/19/2014	4.93	PCI/G	118.922	5.95
SP-18-3	0.5	2	6/19/2014	0.838	PCI/G	20.214	1.01
SP-18-3	2	3	6/19/2014	0.782	PCI/G	18.864	0.94
SP-18-3	3	4	6/19/2014	0.603	PCI/G	14.546	0.73
SP-18-3	4	5	6/19/2014	0.716	PCI/G	17.271	0.86
SP-18-4	0.5	2	6/20/2014	2.8	PCI/G	67.542	3.38
SP-18-4	2	3	6/20/2014	1.02	PCI/G	24.605	1.23
SP-18-4	3	4	6/20/2014	1.54	PCI/G	37.148	1.86
SP-18-4	4	5	6/20/2014	1.02	PCI/G	24.605	1.23
SP-18-4	0	0.5	6/20/2014	4.29	PCI/G	103.484	5.17
TB201_01	5	5	5/22/2002	2.07	MG/KG	16.967	0.85
TB201_02	1	1	5/22/2002	2.5	MG/KG	20.492	1.02
TB201_03	1	1	5/22/2002	2.09	MG/KG	17.131	0.86
TB201_04	2.4	2.4	5/22/2002	2.41	MG/KG	19.754	0.99
TB202_01	5.2	5.2	5/19/2002	3.61	MG/KG	29.590	1.48
TB202_02	3.5	3.5	5/18/2002	3.26	MG/KG	26.721	1.34
TB202_03	3	3	5/19/2002	3.52	MG/KG	28.852	1.44
TB203_01	1	1	5/18/2002	4.23	MG/KG	34.672	1.73

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Predicted Total Uranium Concentrations in Water
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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
TB203_02	4	4	5/18/2002	13.1	MG/KG	107.377	5.37
TB204_01	8	8	5/31/2002	3.73	MG/KG	30.574	1.53
TB204_02	10	10	5/31/2002	3.37	MG/KG	27.623	1.38
TB204_03	7	7	5/31/2002	3.03	MG/KG	24.836	1.24
TB205_01	3	3	5/31/2002	4.36	MG/KG	35.738	1.79
TB205_02	6.5	6.5	5/31/2002	2.28	MG/KG	18.689	0.93
TB205_03	8	8	5/31/2002	1.9	MG/KG	15.574	0.78
TB301_01	3.5	3.5	5/20/2002	2.75	MG/KG	22.541	1.13
TB301_01-1	0.5	2	12/12/2013	1.02	PCI/G	24.605	1.23
TB301_01-1	2	3	12/12/2013	1.02	PCI/G	24.605	1.23
TB301_01-1	0	0.5	12/12/2013	0.996	PCI/G	24.026	1.20
TB301_01-2	0.5	2	12/12/2013	0.527	PCI/G	12.712	0.64
TB301_01-2	2	3	12/12/2013	0.847	PCI/G	20.431	1.02
TB301_01-2	0	0.5	12/12/2013	0.507	PCI/G	12.230	0.61
TB301_01-3	0.5	2	12/12/2013	0.593	PCI/G	14.304	0.72
TB301_01-3	2	3	12/12/2013	0.597	PCI/G	14.401	0.72
TB301_01-3	0	0.5	12/12/2013	0.624	PCI/G	15.052	0.75
TB301_02	1.5	1.5	5/20/2002	3.05	MG/KG	25.000	1.25
TB301_03	1	1	5/20/2002	11.8	MG/KG	96.721	4.84
TB302_01	8	8	5/21/2002	1.66	MG/KG	13.607	0.68
TB302_02	1	1	5/21/2002	3.78	MG/KG	30.984	1.55
TB302_03	6	6	5/21/2002	1.86	MG/KG	15.246	0.76
TB303_01	5	5	5/17/2002	1.27	MG/KG	10.410	0.52
TB303_02	1	1	5/17/2002	2.9	MG/KG	23.770	1.19
TB303_03	5	5	5/17/2002	0.917	MG/KG	7.516	0.38
TB304_01	1.3	1.3	5/21/2002	31.3	MG/KG	256.557	12.83
TB304_02	6.5	6.5	5/21/2002	1.67	MG/KG	13.689	0.68
TB304_03	7	7	5/21/2002	2.93	MG/KG	24.016	1.20
TB305_01	4	4	6/1/2002	5.73	MG/KG	46.967	2.35
TB305_02	5	5	6/1/2002	3.21	MG/KG	26.311	1.32
TB305_03	5	5	6/1/2002	4.44	MG/KG	36.393	1.82
TB403_01	4	4	5/30/2002	3.67	MG/KG	30.082	1.50
TB403_02	7	7	5/30/2002	1.7	MG/KG	13.934	0.70
TB403_03	8	8	5/30/2002	2.35	MG/KG	19.262	0.96
TB404_01	3.3	3.3	5/17/2002	2.14	MG/KG	17.541	0.88
TB404_02	6.2	6.2	5/17/2002	1.97	MG/KG	16.148	0.81
TB404_03	2.3	2.3	5/17/2002	2.24	MG/KG	18.361	0.92
TB406_01	7	7	5/16/2002	1.46	MG/KG	11.967	0.60
TB406_02	2	2	5/16/2002	5.75	MG/KG	47.131	2.36
TB406_03	1	1	5/16/2002	2.96	MG/KG	24.262	1.21
TB408_01	2.7	2.7	5/16/2002	2.34	MG/KG	19.180	0.96
TB408_02	3.9	3.9	5/16/2002	2.14	MG/KG	17.541	0.88
TB408_03	4.7	4.7	5/16/2002	1.97	MG/KG	16.148	0.81
TB410_01	6	6	5/21/2002	2.38	MG/KG	19.508	0.98
TB410_02	2	2	5/21/2002	2.04	MG/KG	16.721	0.84
TB410_03	4	4	5/21/2002	2.39	MG/KG	19.590	0.98
TB411_01	5	5	5/19/2002	1.74	MG/KG	14.262	0.71
TB411_02	1.5	1.5	5/19/2002	4.82	MG/KG	39.508	1.98
TB411_03	1.5	1.5	5/19/2002	6.1	MG/KG	50.000	2.50
TB411_03-1	0.5	2	12/2/2013	0.965	PCI/G	23.278	1.16
TB411_03-1	2	3	12/2/2013	0.784	PCI/G	18.912	0.95

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Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
TB411_03-1	0	0.5	12/2/2013	1.07	PCI/G	25.811	1.29
TB411_03-2	0.5	2	12/2/2013	1.43	PCI/G	34.495	1.72
TB411_03-2	2	3	12/2/2013	0.661	PCI/G	15.945	0.80
TB411_03-2	0	0.5	12/2/2013	1.4	PCI/G	33.771	1.69
TB411_03-3	0.5	2	12/2/2013	1.25	PCI/G	30.153	1.51
TB411_03-3	2	3	12/2/2013	0.961	PCI/G	23.181	1.16
TB411_03-3	0	0.5	12/2/2013	1.14	PCI/G	27.499	1.37
TB411_03-4	0.5	2	12/2/2013	0.94	PCI/G	22.675	1.13
TB411_03-4	2	3	12/2/2013	0.502	PCI/G	12.109	0.61
TB411_03-4	0	0.5	12/2/2013	1.16	PCI/G	27.982	1.40
TB412_01	5	5	5/18/2002	2.23	MG/KG	18.279	0.91
TB412_02	5	5	5/18/2002	1.69	MG/KG	13.852	0.69
TB412_03	4	4	5/18/2002	2.05	MG/KG	16.803	0.84
TB413_01	9	9	5/17/2002	1.22	MG/KG	10.000	0.50
TB413_02	3	3	5/18/2002	2.33	MG/KG	19.098	0.95
TB413_03	3	3	5/18/2002	1.81	MG/KG	14.836	0.74
TB414_01	5.5	5.5	5/20/2002	3.78	MG/KG	30.984	1.55
TB414_02	8	8	5/20/2002	5.94	MG/KG	48.689	2.43
TB414_03	1	1	5/20/2002	4.53	MG/KG	37.131	1.86
TB501_01	1.5	1.5	5/21/2002	5.6	MG/KG	45.902	2.30
TB501_02	3	3	5/22/2002	0.411	MG/KG	3.369	0.17
TB501_03	2.7	2.7	5/22/2002	18.2	MG/KG	149.180	7.46
TB802_01	4.2	4.2	5/23/2002	2.61	MG/KG	21.393	1.07
TB802_01-1	0.5	2	11/14/2013	0.7855	PCI/G	18.948	0.95
TB802_01-1	2	3	11/14/2013	3.29	PCI/G	79.362	3.97
TB802_01-1	3	4	11/14/2013	3.88	PCI/G	93.594	4.68
TB802_01-1	3	4	11/14/2013	4.56	PCI/G	109.997	5.50
TB802_01-1	4	5	11/14/2013	4.54	PCI/G	109.515	5.48
TB802_01-1	0	0.5	11/14/2013	0.598	PCI/G	14.425	0.72
TB802_01-2	0.5	2	11/14/2013	0.834	PCI/G	20.118	1.01
TB802_01-2	2	3	11/14/2013	0.792	PCI/G	19.105	0.96
TB802_01-2	0	0.5	11/14/2013	0.834	PCI/G	20.118	1.01
TB802_01-3	2	3	11/14/2013	1.04	PCI/G	25.087	1.25
TB802_01-3	3	4	11/14/2013	0.841	PCI/G	20.287	1.01
TB802_01-3	0	0.5	11/14/2013	0.925	PCI/G	22.313	1.12
TB802_01-4	0.5	2	11/14/2013	0.612	PCI/G	14.763	0.74
TB802_01-4	2	3	11/14/2013	0.817	PCI/G	19.708	0.99
TB802_01-4	0	0.5	11/14/2013	0.596	PCI/G	14.377	0.72
TB802_01-5	0.5	2	6/26/2014	1.78	PCI/G	42.938	2.15
TB802_01-5	2	3	6/26/2014	4.71	PCI/G	113.616	5.68
TB802_01-5	3	5	6/26/2014	14.5	PCI/G	349.772	17.49
TB802_01-5	5	7	6/26/2014	5.1	PCI/G	123.023	6.15
TB802_01-5	0	0.5	6/26/2014	1.35	PCI/G	32.565	1.63
TB802_01-6	0.5	2	6/26/2014	3.62	PCI/G	87.322	4.37
TB802_01-6	2	3	6/26/2014	8.11	PCI/G	195.631	9.78
TB802_01-6	3	5	6/26/2014	6.73	PCI/G	162.342	8.12
TB802_01-6	5	7	6/26/2014	1.09	PCI/G	26.293	1.31
TB802_01-6	0	0.5	6/26/2014	1.49	PCI/G	35.942	1.80
TB802_02	4	4	5/23/2002	7.29	MG/KG	59.754	2.99
TB802A_01	3.8	3.8	5/31/2002	17.8	MG/KG	145.902	7.30
TB802A_01-1	0.5	2	11/14/2013	0.8545	PCI/G	20.612	1.03

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TB802A_01-1	2	3	11/14/2013	0.758	PCI/G	18.285	0.91
TB802A_01-1	0	0.5	11/14/2013	0.779	PCI/G	18.791	0.94
TB802A_01-2	0.5	2	11/14/2013	0.804	PCI/G	19.394	0.97
TB802A_01-2	2	3	11/14/2013	0.711	PCI/G	17.151	0.86
TB802A_01-2	0	0.5	11/14/2013	0.962	PCI/G	23.206	1.16
TB802A_01-3	0.5	2	11/14/2013	0.918	PCI/G	22.144	1.11
TB802A_01-3	2	3	11/14/2013	1.78	PCI/G	42.938	2.15
TB802A_01-3	3	4	11/14/2013	0.708	PCI/G	17.079	0.85
TB802A_01-3	0	0.5	11/14/2013	0.669	PCI/G	16.138	0.81
TB802A_01-4	0.5	2	11/14/2013	0.734	PCI/G	17.706	0.89
TB802A_01-4	2	3	11/14/2013	0.854	PCI/G	20.600	1.03
TB802A_01-4	0	0.5	11/14/2013	0.767	PCI/G	18.502	0.93
TB808_01	4.5	4.5	5/20/2002	2.49	MG/KG	20.410	1.02
TB808_02	1.5	1.5	5/20/2002	3.44	MG/KG	28.197	1.41
TB808_03	1.5	1.5	5/20/2002	2.72	MG/KG	22.295	1.11
TB809_01	1	1	5/30/2002	3.66	MG/KG	30.000	1.50
TB810_01	2.9	2.9	6/1/2002	3.94	MG/KG	32.295	1.61
TB810_02	1.8	1.8	6/1/2002	6.13	MG/KG	50.246	2.51
TB810_03	5.8	5.8	6/1/2002	2.38	MG/KG	19.508	0.98
TB810_03-1	0.5	2	11/13/2013	1.2	PCI/G	28.947	1.45
TB810_03-1	2	3	11/13/2013	1.03	PCI/G	24.846	1.24
TB810_03-1	0	0.5	11/13/2013	1.09	PCI/G	26.293	1.31
TB810_03-2	0.5	2	11/13/2013	0.942	PCI/G	22.723	1.14
TB810_03-2	2	3	11/13/2013	0.759	PCI/G	18.309	0.92
TB810_03-2	0	0.5	11/13/2013	1.03	PCI/G	24.846	1.24
TB810_03-3	0.5	2	11/13/2013	1.135	PCI/G	27.379	1.37
TB810_03-3	2	3	11/13/2013	0.831	PCI/G	20.046	1.00
TB810_03-3	0	0.5	11/13/2013	1.19	PCI/G	28.705	1.44
TB810_03-4	0.5	2	11/14/2013	1.03	PCI/G	24.846	1.24
TB810_03-4	2	3	11/14/2013	0.922	PCI/G	22.241	1.11
TB810_03-4	0	0.5	11/14/2013	1.17	PCI/G	28.223	1.41
TB811_01	4.8	4.8	6/1/2002	1.84	MG/KG	15.082	0.75
TB811_02	2.3	2.3	6/1/2002	3.31	MG/KG	27.131	1.36
TB811_03	4	4	6/1/2002	4.37	MG/KG	35.820	1.79
TB812_01	3	3	6/1/2002	2.81	MG/KG	23.033	1.15
TB812_02	3	3	6/1/2002	3.15	MG/KG	25.820	1.29
TB812_03	5	5	6/1/2002	2.31	MG/KG	18.934	0.95
TB813_02	1	1	6/1/2002	9.16	MG/KG	75.082	3.75
TB813_03	3.9	3.9	6/1/2002	3.11	MG/KG	25.492	1.27
TBG01_01	6	6	9/11/2002	1.137	PCI/G	27.427	1.37
TBG01_02	3	3	9/12/2002	1.29	PCI/G	31.118	1.56
TBG01_03	2	2	9/11/2002	0.889	PCI/G	21.445	1.07
TBG01_04	5	5	9/12/2002	0.8725	PCI/G	21.047	1.05
TBG01_05	2	2	9/13/2002	1.232	PCI/G	29.719	1.49
TBG01_09	3	3	9/12/2002	1.57	PCI/G	37.872	1.89
TBG02_01	2	2	5/22/2002	1.87	PCI/G	45.109	2.26
TBG02_02	2	2	5/22/2002	1083.5	PCI/G	26136.397	1306.82
TBG02_03	4.5	4.5	9/16/2002	0.798	PCI/G	19.250	0.96
TBG02_06	2	2	9/16/2002	0.838	PCI/G	20.214	1.01
TBG02_07	2	2	9/16/2002	2.16	PCI/G	52.104	2.61
TBG03_01	1	1	9/14/2002	0.917	PCI/G	22.120	1.11

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TBG03_03	1	1	9/16/2002	21900	PCI/G	528276.035	26413.80
TBG03_04	1	1	9/16/2002	0.956	PCI/G	23.061	1.15
TBG04_01	1	1	9/13/2002	1.37	PCI/G	33.047	1.65
TBG04_02	5	5	9/13/2002	1.201	PCI/G	28.971	1.45
TBG04_03	4	4	9/13/2002	1.29	PCI/G	31.118	1.56
TBG04_04	6	6	9/13/2002	0.709	PCI/G	17.103	0.86
TBG04_05	4	4	9/13/2002	0.723	PCI/G	17.440	0.87
TBG05_01	5	5	9/14/2002	2.84	PCI/G	68.507	3.43
TBG05_02	10	10	9/14/2002	1.12	PCI/G	27.017	1.35
TBG05_03	4	4	9/14/2002	0.967	PCI/G	23.326	1.17
TBG05_04	3	3	9/14/2002	1.342	PCI/G	32.372	1.62
TBG05_05	7	7	9/14/2002	0.75	PCI/G	18.092	0.90
TBG06_01	2	2	9/15/2002	0.945	PCI/G	22.795	1.14
TBG06_02	2	2	9/15/2002	1.215	PCI/G	29.308	1.47
TBG06_03	1	1	9/15/2002	0.767	PCI/G	18.502	0.93
TS203_03	0	0.5	5/18/2002	3.46	MG/KG	28.361	1.42
TS408_04	0	0.5	5/16/2002	0.411	MG/KG	3.369	0.17
TS809_02	0	0.5	5/30/2002	3.02	MG/KG	24.754	1.24
TS809_03	0	0.5	5/30/2002	2.61	MG/KG	21.393	1.07
TS812_04	0	0.5	6/1/2002	2860	MG/KG	23442.623	1172.13
TS812_04-1	0.5	2	12/5/2013	1.19	PCI/G	28.705	1.44
TS812_04-1	2	3	12/5/2013	1.02	PCI/G	24.605	1.23
TS812_04-1	0	0.5	12/5/2013	6.23	PCI/G	150.281	7.51
TS812_04-2	0.5	2	12/5/2013	1.43	PCI/G	34.495	1.72
TS812_04-2	2	3	12/5/2013	0.803	PCI/G	19.370	0.97
TS812_04-2	0	0.5	12/5/2013	0.852	PCI/G	20.552	1.03
TS812_04-3	0.5	2	12/5/2013	1.19	PCI/G	28.705	1.44
TS812_04-3	2	3	12/5/2013	0.988	PCI/G	23.833	1.19
TS812_04-3	0	0.5	12/5/2013	1.67	PCI/G	40.284	2.01
TS812_04-4	0.5	2	12/5/2013	0.93	PCI/G	22.434	1.12
TS812_04-4	2	3	12/5/2013	0.725	PCI/G	17.489	0.87
TSG06_05	0	0.5	9/15/2002	0.96	PCI/G	23.157	1.16
TSG06_06	0	0.5	9/15/2002	0.855	PCI/G	20.624	1.03
TWP830	15	15	10/2/2003	1.47	MG/KG	12.049	0.60
TWP830	0	0.5	10/2/2003	2.64	MG/KG	21.639	1.08
TWP921	14	16	11/23/2009	0.853	PCI/G	20.576	1.03
TWP921	0	0.5	11/23/2009	0.941	PCI/G	22.699	1.13
TWP922	12	14	11/18/2009	0.731	PCI/G	17.633	0.88
TWP922	0	0.5	11/17/2009	1.74	PCI/G	41.973	2.10
TWP923	0	0.5	11/17/2009	0.554	PCI/G	13.364	0.67
TWP923	16	18	11/17/2009	0.677	PCI/G	16.331	0.82
TWP924	12	14	11/19/2009	0.471	PCI/G	11.362	0.57
TWP924	0	0.5	11/19/2009	1.49	PCI/G	35.942	1.80
TWP925	10	12	11/18/2009	1.12	PCI/G	27.017	1.35
TWP925	0	0.5	11/18/2009	2.88	PCI/G	69.472	3.47
TWP926	8	12	11/19/2009	0.9965	PCI/G	24.038	1.20
TWP926	0	0.5	11/19/2009	0.935	PCI/G	22.554	1.13
TWP927	10	12	11/20/2009	0.747	PCI/G	18.019	0.90
TWP927	0	0.5	11/20/2009	0.459	PCI/G	11.072	0.55
TWP928	12	14	11/20/2009	0.851	PCI/G	20.528	1.03
TWP928	0	0.5	11/20/2009	1.38	PCI/G	33.289	1.66

Table 1
Predicted Total Uranium Concentrations in Water
(based on soil sampling results)

Location ID	Top of sampled interval (ft bgs)	Bottom of sampled interval (ft bgs)	Date	Soil Concentration	Units	Estimated Pore Water Concentration ($\mu\text{g/L}$)	Estimated Groundwater Concentration ($\mu\text{g/L}$)
TWP929	8	10	11/21/2009	0.736	PCI/G	17.754	0.89
TWP929	0	0.5	11/21/2009	0.885	PCI/G	21.348	1.07
TWP930	15	17	11/21/2009	0.419	PCI/G	10.107	0.51
TWP930	0	0.5	11/21/2009	0.868	PCI/G	20.938	1.05
TWP931	8	10	11/21/2009	1.08	PCI/G	26.052	1.30
TWP931	0	0.5	11/21/2009	0.526	PCI/G	12.688	0.63
TWP932	14	16	12/2/2009	0.978	PCI/G	23.592	1.18
TWP932	0	0.5	12/2/2009	0.789	PCI/G	19.032	0.95
TWP933	10	12	12/3/2009	0.861	PCI/G	20.769	1.04
TWP933	0	0.5	12/3/2009	0.722	PCI/G	17.416	0.87
TWP934	16	18	12/3/2009	0.578	PCI/G	13.943	0.70
TWP934	0	0.5	12/3/2009	0.665	PCI/G	16.041	0.80
TWP935	10	12	11/24/2009	0.811	PCI/G	19.563	0.98
TWP935	0	0.5	11/24/2009	1.15	PCI/G	27.741	1.39
TWP936	12	14	11/22/2009	1.03	PCI/G	24.846	1.24
TWP936	0	0.5	11/22/2009	1.55	PCI/G	37.389	1.87
TWP937	12	14	12/1/2009	0.651	PCI/G	15.704	0.79
TWP937	0	0.5	12/1/2009	0.954	PCI/G	23.013	1.15
TWP937-1	0.5	2	11/18/2013	0.748	PCI/G	18.043	0.90
TWP937-1	2	3	11/18/2013	0.886	PCI/G	21.372	1.07
TWP937-1	0	0.5	11/18/2013	1.15	PCI/G	27.741	1.39
TWP937-2	0.5	2	11/18/2013	0.763	PCI/G	18.405	0.92
TWP937-2	2	3	11/18/2013	0.785	PCI/G	18.936	0.95
TWP937-2	0	0.5	11/18/2013	1.2	PCI/G	28.947	1.45
TWP937-3	0.5	2	11/18/2013	0.773	PCI/G	18.646	0.93
TWP937-3	2	3	11/18/2013	0.574	PCI/G	13.846	0.69
TWP937-3	0	0.5	11/18/2013	0.815	PCI/G	19.660	0.98
TWP937-4	0.5	2	11/18/2013	0.87	PCI/G	20.986	1.05
TWP937-4	2	3	11/18/2013	0.849	PCI/G	20.480	1.02
TWP937-4	0	0.5	11/18/2013	0.873	PCI/G	21.059	1.05
TWP938	14	16	11/24/2009	0.509	PCI/G	12.278	0.61
TWP938	0	0.5	11/24/2009	0.885	PCI/G	21.348	1.07
TWP939	2	4	11/22/2009	0.588	PCI/G	14.184	0.71
TWP939	0	0.5	11/22/2009	1.2	PCI/G	28.947	1.45
TWP940	8	10	12/1/2009	1.297	PCI/G	31.286	1.56
TWP940	0	0.5	12/1/2009	0.985	PCI/G	23.760	1.19
TWP941	10	12	11/30/2009	0.782	PCI/G	18.864	0.94
TWP941	0	0.5	11/30/2009	1.08	PCI/G	26.052	1.30
TWP942	4	6	12/2/2009	0.759	PCI/G	18.309	0.92
TWP942	0	0.5	12/2/2009	0.885	PCI/G	21.348	1.07
TWP943	8	10	12/2/2009	0.72	PCI/G	17.368	0.87
TWP943	0	0.5	12/2/2009	1.34	PCI/G	32.324	1.62

Notes:

NFSS - Niagara Falls Storage Site

$\mu\text{g/L}$ - micrograms per liter

ft - feet

bgs - below ground surface

Table 2

Groundwater Surface Water Interaction Technical Memorandum, NFSS, Lewiston, NY
Results Summary

Area of Exceedance	¹ Exceedance of 300 pCi/L Screening Level in Pore Water	² Exceedances of Canadian Water Quality Guideline in Saturated Groundwater	Exceedances of MCL Screening Level in Saturated Groundwater	¹ Exceedance of 300 pCi/L Screening Level in Saturated Groundwater	Within 1,000-year Groundwater to Surface Water Pathline	Likelihood of Negatively Impacting Surface Water within 1,000-year
Area 1	Yes	Yes	Yes	No	No	Low
Area 2	Yes	Yes	Yes	Yes	No	Low
Area 3	Yes	Yes	Yes	No	No	Low
Area 4	Yes	Yes	Yes	No	Yes	Low
Area 5	Yes	Yes	Yes	No	No	Low
Area 6	Yes	Yes	Yes	No	Yes	Low
Area 7	Yes	Yes	No	No	No	Low
Area 8	Yes	Yes	Yes	Yes	No	Low

¹Annual limit on intake of radionuclides in effluent discharge (10 CFR 20 Appendix B)

²Canadian Water Quality Guideline for the protection of aquatic life from long term exposure.