

ADDENDUM

**SITE REMEDIATION PLAN
For the
FORMER ZIRCALOY BURN AREA**

**WESTINGHOUSE SPECIALTY METALS PLANT SITE
BLAIRSVILLE, PENNSYLVANIA**

August 2001

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ADDENDUM
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1.0 Introduction

This addendum presents the results of the soil investigation of the Former Zircaloy Burn Area (FZB) at the Westinghouse Specialty Metals Plant located in Blairsville, Pennsylvania. The investigation is a part of the in-situ characterization/final survey remedial action as described in Section 2.1.2.2 of the *Site Remediation Plan for the Former Zircaloy Burn Area*, dated June 2000. Based on the results of the investigation, certain areas of the site have been identified as contaminated above guideline values. The remediation plan calls for excavating the contaminated soil at these locations, and disposing of it off-site.

The soil samples were removed during August 2000. A 10-meter x 10-meter grid, consisting of 102 grids was established on the site. Sampling occurred at one location within each grid in the unaffected area and at four locations within each grid in the affected area. In the affected area each sample location is identified as a quadrant, i.e., 5-meter x 5-meter. In most instances, two 2-foot samples were removed at each location. However, there were some grids where physical constraints prevented complete sample removal.

2.0 Sample Analysis

A Geoprobe® was used to extract the soil samples, which were scanned and packaged as required by the remediation plan. Outreach Laboratory initially analyzed all samples by gamma spectrometry to determine the U^{238} concentration. As reported by Cummings Riter Consultants, Inc. in the *Data Summary Report – Radiological Testing*, June 15, 1999, previous tests on soil samples from the site revealed a wide variation in the amount of enrichment among the samples. B. Koh & Associates assumed the conservative ratio, U^{Total}/U^{238} , was 10 to initially screen the results for samples in which the total Uranium concentration exceed the guideline value, 30 pCi/gm. In this manner 39 quadrants were identified for potential excavation.

One sample from each of the 39 quadrants that exceeded the guideline was then analyzed by alpha spectrometry to determine the concentrations of U^{234} and U^{235} . These results were used to develop U^{234}/U^{238} and U^{235}/U^{238} ratios, which were applied to the gamma spectrometry results as, follows:

- The ratios determined for a particular sample were applied to the sample and the other samples from the same grid,
- The alpha spectrometry results were used to calculate average ratios for each of the four site areas; A, B, C, and unaffected, and were applied to all other samples in the area.

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The calculated average ratios for each area can be found in Table 1.

3.0 Results

After recalculating the total Uranium concentration of all samples using the U^{234}/U^{238} and U^{235}/U^{238} ratios as described above, average Total Uranium concentration was calculated for each quadrant or grid as specified in Section 2.1.2.2 of the remediation plan. The average total Uranium concentration of 14 quadrants exceeded the guideline value. The maximum and average concentration, as well as, the uranium ratios for each of these quadrants are presented in Table 2. Table 3 is a complete summary of all analytic results and the calculated total Uranium for each sample.

4.0 Conclusion

In accordance with Section 2.1.2.2 of the site remediation plan, the 14 quadrants in which the total Uranium concentration exceeds the guideline value will be excavated and additional samples taken from the quadrant to verify compliance with the guideline values.

When the excavation has been verified, a Final Status Survey Report will be prepared documenting that the residual contamination at the site is less than the guideline value.

AREAS TO BE EXCAVATED ☒

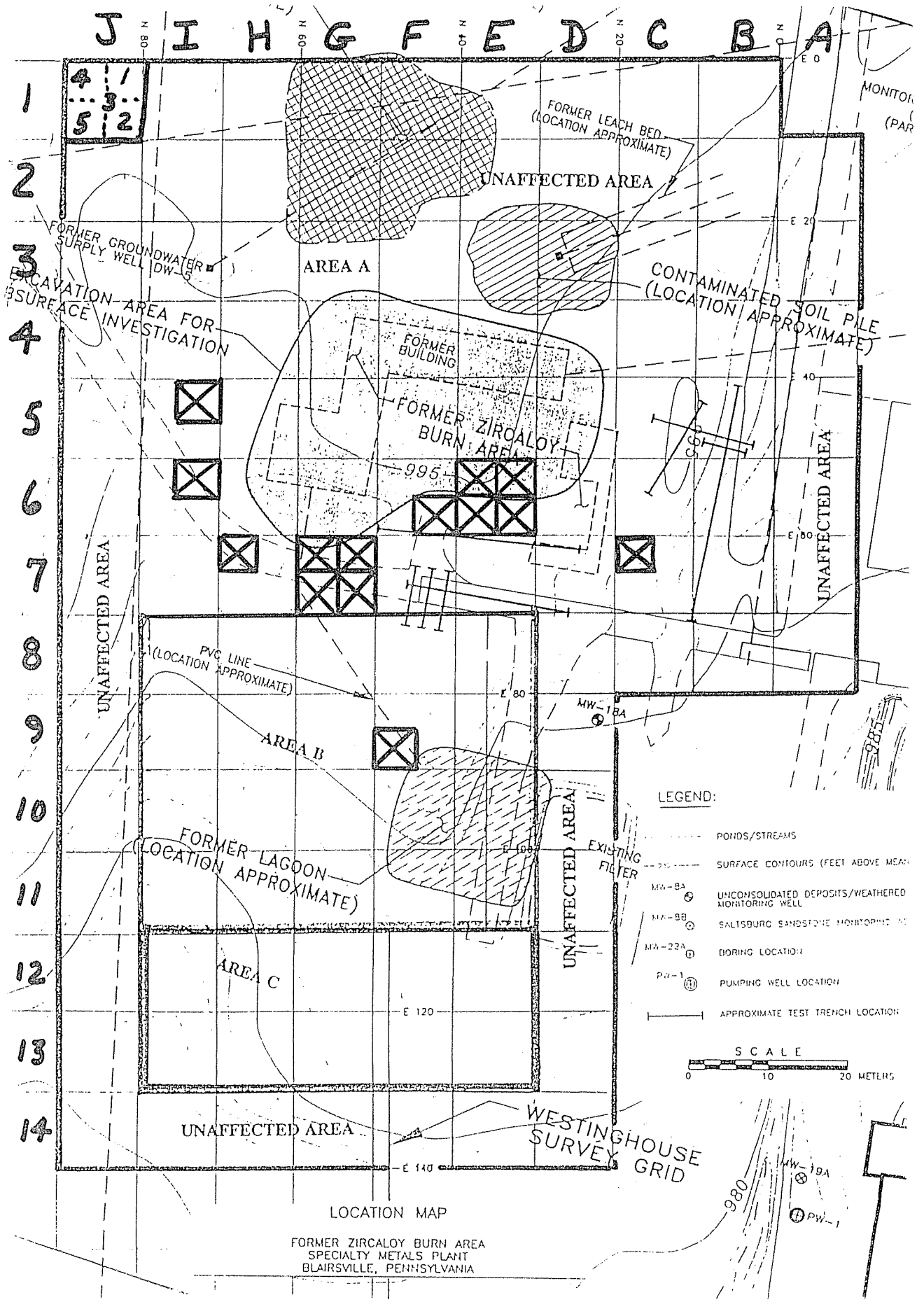


FIGURE 1

Average Isotopic Ratios

| Area | Ratio U-234/U-238 | Ratio U-235/U-238 |
|---------------|----------------------|----------------------|
| Unaffected * | 1.8 | 0.28 |
| Affected – A* | 6.6 | 0.49 |
| Affected – B* | 3.3 | 0.28 |
| Affected – C* | 1.3 | 0.28 |

* See Figure 1

TABLE 1

Quadrants Exceeding Guideline Value

| Grid | Quads | Max. U- total (pCi/g) | Avg. U- total (pCi/g) | Ratio U-234/U-238 | Ratio U-235/U-238 |
|------|---------|--------------------------|--------------------------|----------------------|----------------------|
| C7 | 4 | 155 | 37 | 17.8 | 0.9 |
| E6 | 1,2,4,5 | 156 | 87 | 19 | 0.9 |
| F6 | 2 | 1,560 | 228 | 45.6 | 2.1 |
| F9 | 5 | 187 | 38 | 19.6 | 0.9 |
| G7 | 1,2,4,5 | 119 | 49 | 9.6 | 0.6 |
| H7 | 4 | 1111 | 174 | 17 | 1.6 |
| I5 | 1 | 238 | 48 | 4 | 0.1 |
| I6 | 1 | 130 | 35 | 8 | 0.1 |

TABLE 2

Total Uranium and Average Total Uranium

TABLE 3

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|-------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| A 3-3 0.2' | BDL | 2.27 | 1.8 | 0.3 | 7.0 | |
| A 3-3 2.4' | | 2.42 | 1.8 | 0.3 | 7.5 | |
| | | | | | | 7.2 |
| A 4-3 0-2' | BDL | 1.92 | 1.8 | 0.3 | 5.9 | |
| A 4-3 2-4' | BDL | 2.71 | 1.8 | 0.3 | 8.3 | |
| | | | | | | 7.1 |
| A 5-3 0-2' | BDL | 2.10 | 1.8 | 0.3 | 6.5 | |
| A 5-3 2-4' | BDL | 2.77 | 1.8 | 0.3 | 8.5 | |
| | | | | | | 7.5 |
| A 6-3 0-2' | BDL | 2.76 | 1.8 | 0.3 | 8.5 | |
| A 6-3 2-4' | BDL | 2.97 | 1.8 | 0.3 | 9.1 | |
| | | | | | | 8.8 |
| A 7-3 0.2' | BDL | 1.94 | 4.2 | 0.4 | 10.9 | |
| A 7-3 2.4' | Isotopic | 6.32 | 4.2 | 0.4 | 35.6 | |
| | | | | | | 23.3 |
| A 8-3 0.2' | BDL | 2.83 | 1.8 | 0.3 | 8.7 | |
| A 8-3 2.4' | BDL | 2.43 | 1.8 | 0.3 | 7.5 | |
| | | | | | | 8.1 |
| B3-1 0-2' | Isotopic | 26.60 | 1.0 | 0.1 | 55.3 | |
| B3-1 2-4' | BDL | 1.00 | 1.0 | 0.1 | 2.1 | |
| B3-4 0-2' | BDL | 1.01 | 1.0 | 0.1 | 2.1 | |
| B3-4 2-4' | BDL | 0.94 | 1.0 | 0.1 | 2.0 | |
| B3-5 0-2.5' | BDL | 1.02 | 1.0 | 0.1 | 2.1 | |
| B3-2 0-2.5' | BDL | 2.64 | 1.0 | 0.1 | 5.5 | |
| | | | | | | 11.5 |
| B 4-1 0-2' | Isotopic | 1.10 | 1.3 | 0.0 | 2.6 | |
| B 4-1 2-4' | BDL | 2.63 | 1.3 | 0.0 | 6.1 | |
| B4-2 0-2' | BDL | 2.17 | 1.0 | 0.1 | 4.4 | |
| B4-2 2-4' | BDL | 2.86 | 1.0 | 0.1 | 5.8 | |
| B4-4 0-2' | Isotopic | 0.80 | 0.9 | 0.1 | 1.6 | |
| B4-4 2-4' | BDL | 2.97 | 0.9 | 0.1 | 6.0 | |
| B4-5 0-2' | BDL | 2.31 | 1.0 | 0.1 | 4.7 | |
| B4-5 2-4' | BDL | 2.25 | 1.0 | 0.1 | 4.5 | |
| | | | | | | 4.5 |
| B 5-1 0-2' | BDL | 2.53 | 1.9 | 0.5 | 8.7 | |
| B 5-1 2-4' | BDL | 1.82 | 1.9 | 0.5 | 6.2 | |
| B 5-2 0-2' | | 3.76 | 1.9 | 0.5 | 12.9 | |
| B5-4 0-2' | Isotopic | 0.85 | 1.9 | 0.5 | 2.9 | |
| B5-4 0-4' | BDL | 2.09 | 1.9 | 0.5 | 7.1 | |
| B5-5 0-2' | BDL | 2.85 | 1.9 | 0.5 | 9.7 | |
| B5-5 2-4' | BDL | 1.02 | 1.9 | 0.5 | 3.5 | |
| | | | | | | 7.3 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|-------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| B6-1 0-2' | BDL | 1.15 | 1.4 | 0.2 | 3.0 | |
| B6-1 2-4' | BDL | 0.98 | 1.4 | 0.2 | 2.6 | |
| B 6-2 0-2' | Isotopic | 7.90 | 1.4 | 0.2 | 20.7 | |
| B 6-2 2-4' | BDL | 2.63 | 1.4 | 0.2 | 6.9 | |
| B6-4 0-2' | BDL | 2.95 | 1.4 | 0.2 | 7.7 | |
| B6-4 2-4' | BDL | 1.02 | 1.4 | 0.2 | 2.7 | |
| B6-5 0-2' | | 2.5 | 1.4 | 0.2 | 6.6 | |
| B6-5 2-4' | BDL | 1.29 | 1.4 | 0.2 | 3.4 | |
| | | | | | | 6.7 |
| B 7-1 0-2' | Isotopic | 4.74 | 1.8 | 0.2 | 14.0 | |
| B 7-1 2-4' | BDL | 2.84 | 1.8 | 0.2 | 8.4 | |
| B 7-2 0-2' | Isotopic | 3.88 | 1.0 | 0.5 | 9.7 | |
| B 7-2 2-4' | BDL | 2.50 | 1.0 | 0.5 | 6.3 | |
| B7-4 0-2' | | 2.54 | 1.4 | 0.3 | 6.9 | |
| B7-4 2-4' | BDL | 1.94 | 1.4 | 0.3 | 5.3 | |
| B7-5 0-2' | BDL | 0.99 | 1.4 | 0.3 | 2.7 | |
| B7-5 2-4' | BDL | 0.93 | 1.4 | 0.3 | 2.5 | |
| | | | | | | 7.0 |
| B 8-3 0-2' | BDL | 1.60 | 1.8 | 0.3 | 4.9 | |
| B 8-3 2-4' | BDL | 0.72 | 1.8 | 0.3 | 2.2 | |
| | | | | | | 3.6 |
| C 3-1 0-2' | BDL | 2.09 | 6.6 | 0.5 | 16.9 | |
| C 3-1 2-4' | BDL | 2.92 | 6.6 | 0.5 | 23.6 | |
| C 3-2 0-2' | BDL | 2.04 | 6.6 | 0.5 | 16.5 | |
| C 3-2 2-4' | BDL | 2.52 | 6.6 | 0.5 | 20.4 | |
| C 3-4 0-2' | | 2.67 | 6.6 | 0.5 | 21.6 | |
| C 3-4 2-4' | | 2.75 | 6.6 | 0.5 | 22.2 | |
| C 3-5 0-2' | BDL | 2.93 | 6.6 | 0.5 | 23.7 | |
| | | | | | | 20.7 |
| C 4-1 0-2' | BDL | 2.53 | 1.3 | 0.1 | 6.0 | |
| C 4-1 2-4' | | 1.88 | 1.3 | 0.1 | 4.5 | |
| C 4-2 0-2' | Isotopic | 4.41 | 1.3 | 0.1 | 10.5 | |
| C 4-2 2-4' | BDL | 2.07 | 1.3 | 0.1 | 4.9 | |
| C 4-4 0-2 | BDL | 2.29 | 1.3 | 0.1 | 5.4 | |
| C 4-4 2-4' | BDL | 1.86 | 1.3 | 0.1 | 4.4 | |
| | | | | | | 5.9 |
| C 5-1 0-2.5 | BDL | 2.85 | 6.6 | 0.5 | 23.1 | |
| C 5-2 0-2' | BDL | 1.34 | 6.6 | 0.5 | 10.8 | |
| C 5-2 2-4' | BDL | 0.93 | 6.6 | 0.5 | 7.5 | |
| C 5-4 0-2.5 | BDL | 2.92 | 6.6 | 0.5 | 23.6 | |
| C 5-5 0-2' | BDL | 2.42 | 6.6 | 0.5 | 19.6 | |
| C 5-5 2-4' | BDL | 2.87 | 6.6 | 0.5 | 23.2 | |
| | | | | | | 18.0 |
| C 6-2 0-2' | BDL | 3.00 | 8.5 | 0.5 | 30.0 | |
| C 6-2 2-4' | BDL | 2.83 | 8.5 | 0.5 | 28.3 | |
| C 6-4 0-2.5 | BDL | 2.05 | 8.5 | 0.5 | 20.5 | |
| C 6-5 0-2.5 | BDL | 2.14 | 8.5 | 0.5 | 21.4 | |
| C6-1 0-2' | BDL | 2.39 | 8.5 | 0.5 | 23.9 | |
| C6-1 2-4' | BDL | 2.93 | 8.5 | 0.5 | 29.3 | |
| | | | | | | 25.5 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| C7-1 0-2' | BDL | 2.35 | 4.3 | 0.3 | 13.2 | |
| C7-1 2-4' | BDL | 2.72 | 4.3 | 0.3 | 15.3 | |
| C7-2 0-2' | BDL | 1.16 | 4.3 | 0.3 | 6.5 | |
| C7-2 2-4' | BDL | 1.03 | 4.3 | 0.3 | 5.8 | |
| C 7-4 0-2' | | 7.89 | 17.8 | 0.9 | 155.4 | |
| C 7-4 2-4' | Isotopic | 3.14 | 17.8 | 0.9 | 61.9 | |
| C 7-5 0-2' | Isotopic | 4.73 | 4.3 | 0.3 | 26.6 | |
| C 7-5 2-4' | BDL | 2.01 | 4.3 | 0.3 | 11.3 | |
| | | | | | | 37.0 |
| C 8-3 0-2' | BDL | 2.42 | 1.8 | 0.3 | 7.5 | |
| C 8-3 2-4' | BDL | 0.47 | 1.8 | 0.3 | 1.4 | |
| | | | | | | 4.5 |
| D 3-1 0-2' | BDL | 2.64 | 6.6 | 0.5 | 21.4 | |
| D 3-1 2-4' | BDL | 2.90 | 6.6 | 0.5 | 23.5 | |
| D 3-2 0-2' | BDL | 2.88 | 6.6 | 0.5 | 23.3 | |
| D 3-2 2-4' | BDL | 2.74 | 6.6 | 0.5 | 22.2 | |
| D 3-4 0-2' | BDL | 2.77 | 6.6 | 0.5 | 22.4 | |
| D 3-4 2-4' | BDL | 2.40 | 6.6 | 0.5 | 19.4 | |
| D 3-5 0-2' | BDL | 2.65 | 6.6 | 0.5 | 21.4 | |
| D 3-5 2-4' | BDL | 1.90 | 6.6 | 0.5 | 15.4 | |
| | | | | | | 21.1 |
| D 4-1 0-2' | BDL | 1.45 | 6.6 | 0.5 | 11.7 | |
| D 4-1 2-4' | BDL | 2.42 | 6.6 | 0.5 | 19.6 | |
| D 4-2 0-2' | BDL | 2.59 | 6.6 | 0.5 | 21.0 | |
| D 4-2 2-4' | BDL | 2.12 | 6.6 | 0.5 | 17.2 | |
| D 4-4 2-4' | BDL | 2.46 | 6.6 | 0.5 | 19.9 | |
| D 4-5 0-2' | BDL | 3.00 | 6.6 | 0.5 | 24.3 | |
| D 4-5 2-4' | BDL | 2.50 | 6.6 | 0.5 | 20.2 | |
| | | | | | | 19.1 |
| D 5-1 0-2' | Isotopic | 1.34 | 3.2 | 0.3 | 6.0 | |
| D 5-1 2-4' | BDL | 2.39 | 3.2 | 0.3 | 10.7 | |
| D 5-2 0-2' | BDL | 2.06 | 3.2 | 0.3 | 9.2 | |
| D 5-2 2-4' | BDL | 2.21 | 3.2 | 0.3 | 9.9 | |
| D 5-4 0-2' | BDL | 2.29 | 3.2 | 0.3 | 10.3 | |
| D 5-4 2-4' | BDL | 2.43 | 3.2 | 0.3 | 10.9 | |
| D 5-5 0-2' | BDL | 1.83 | 3.2 | 0.3 | 8.2 | |
| D 5-5 2-4' | BDL | 0.23 | 3.2 | 0.3 | 1.0 | |
| | | | | | | 8.3 |
| D 6-1 0-2' | BDL | 2.13 | 8.5 | 1.1 | 22.6 | |
| D 6-1 2-4' | BDL | 2.63 | 8.5 | 1.1 | 27.9 | |
| D 6-2 0-2' | BDL | 1.99 | 8.5 | 1.1 | 21.1 | |
| D 6-2 2-4' | BDL | 1.91 | 8.5 | 1.1 | 20.3 | |
| D 6-4 0-2' | BDL | 1.99 | 8.5 | 1.1 | 21.1 | |
| D 6-4 2-4' | BDL | 2.24 | 8.5 | 1.1 | 23.8 | |
| D 6-5 0-2' | Isotopic | 2.55 | 8.5 | 1.1 | 27.1 | |
| D 6-5 2-4' | | 2.21 | 8.5 | 1.1 | 23.5 | |
| | | | | | | 23.4 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| D 7-1 0-2' | Isotopic | 5.46 | 5.7 | 0.5 | 39.5 | |
| D 7-1 2-4' | BDL | 3.00 | 5.7 | 0.5 | 21.7 | |
| D 7-2 0-2' | BDL | 3.00 | 5.9 | 0.5 | 22.3 | |
| D 7-2 2-4' | BDL | 2.60 | 5.9 | 0.5 | 19.3 | |
| D 7-4 0-2' | Isotopic | 6.73 | 8.0 | 0.5 | 64.2 | |
| D 7-4 2-4' | | 0.842 | 8.0 | 0.5 | 8.0 | |
| D 7-5 0-2' | Isotopic | 1.78 | 4.2 | 0.5 | 10.2 | |
| D 7-5 2-4' | BDL | 1.66 | 4.2 | 0.5 | 9.5 | |
| | | | | | | 24.4 |
| D 8-3 0.2' | BDL | 2.49 | 1.8 | 0.3 | 7.7 | |
| D 8-3 2.4' | BDL | 1.90 | 1.8 | 0.3 | 5.9 | |
| | | | | | | 6.8 |
| D 9-3 0-2' | BDL | 2.42 | 1.8 | 0.3 | 7.5 | |
| D 9-3 2-4' | BDL | 2.91 | 1.8 | 0.3 | 9.0 | |
| | | | | | | 8.2 |
| D 12-3 0.2' | BDL | 2.37 | 1.8 | 0.3 | 7.3 | |
| D 12-3 2.4' | BDL | 1.96 | 1.8 | 0.3 | 6.0 | |
| | | | | | | 6.7 |
| D 13-3 0.2' | BDL | 2.9 | 1.8 | 0.3 | 8.9 | |
| D 13-3 2.4' | BDL | 2.19 | 1.8 | 0.3 | 6.7 | |
| | | | | | | 7.8 |
| D 14-3 0.2' | BDL | 2.14 | 1.8 | 0.3 | 6.6 | |
| D 14-3 2.4' | BDL | 2.19 | 1.8 | 0.3 | 6.7 | |
| | | | | | | 6.7 |
| E 3-1 0-2' | BDL | 2.60 | 6.6 | 0.5 | 21.0 | |
| E 3-1 2-4' | BDL | 2.48 | 6.6 | 0.5 | 20.1 | |
| E 3-2 0-2' | BDL | 2.37 | 6.6 | 0.5 | 19.2 | |
| E 3-2 2-4' | BDL | 1.86 | 6.6 | 0.5 | 15.0 | |
| E 3-4 0-2' | BDL | 2.15 | 6.6 | 0.5 | 17.4 | |
| E 3-4 0-2' | BDL | 2.49 | 6.6 | 0.5 | 20.1 | |
| E 3-4 2-4' | BDL | 2.88 | 6.6 | 0.5 | 23.3 | |
| E 3-4 2-4' | BDL | 2.54 | 6.6 | 0.5 | 20.5 | |
| E 3-5 0-2' | BDL | 1.58 | 6.6 | 0.5 | 12.8 | |
| E 3-5 2-4' | BDL | 2.90 | 6.6 | 0.5 | 23.5 | |
| | | | | | | 19.3 |
| E 4-1 0-2.5' | BDL | 2.80 | 3.4 | 0.5 | 13.7 | |
| E 4-2 0-2' | Isotopic | 1.36 | 3.4 | 0.5 | 6.7 | |
| E 4-2 2-4' | BDL | 1.95 | 3.4 | 0.5 | 9.5 | |
| E 4-5 0-2' | BDL | 2.45 | 3.4 | 0.5 | 12.0 | |
| E 4-5 2-4' | BDL | 2.59 | 3.4 | 0.5 | 12.7 | |
| | | | | | | 10.9 |
| E 5-1 0-2' | BDL | 2.74 | 6.6 | 0.5 | 22.2 | |
| E 5-1 2-4' | BDL | 2.66 | 6.6 | 0.5 | 21.5 | |
| E 5-2 0-2' | Isotopic | 2.21 | 14.7 | 0.8 | 36.4 | |
| E 5-2 2-4' | BDL | 2.07 | 14.7 | 0.8 | 34.1 | |
| E 5-4 0-2' | BDL | 2.12 | 6.6 | 0.5 | 17.2 | |
| E 5-5 0-2' | BDL | 2.60 | 6.6 | 0.5 | 21.0 | |
| | | | | | | 25.4 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| E 6-1 0-2' | Isotopic | 10.20 | 13.3 | 1.0 | 156.3 | |
| E 6-1 2-4' | BDL | 2.33 | 13.3 | 1.0 | 35.7 | |
| E 6-2 0-2' | BDL | 0.92 | 19.0 | 0.9 | 19.2 | |
| E 6-2 2-4' | Isotopic | 6.46 | 19.0 | 0.9 | 135.1 | |
| E 6-5 0-2' | Isotopic | 13.80 | 8.7 | 0.7 | 143.8 | |
| E 6-5 2-4' | BDL | 2.76 | 8.7 | 0.7 | 28.8 | |
| | | | | | | 86.5 |
| E 7-1 0-2.5 | BDL | 2.83 | 4.6 | 0.2 | 16.4 | |
| E 7-2 0-2' | BDL | 1.72 | 4.6 | 0.2 | 10.0 | |
| E 7-2 2-4' | BDL | 2.48 | 4.6 | 0.2 | 14.4 | |
| E 7-4 0-2' | Isotopic | 6.00 | 4.6 | 0.2 | 34.7 | |
| E 7-4 2-4' | BDL | 3.00 | 4.6 | 0.2 | 17.4 | |
| E 7-5 0-2' | BDL | 1.86 | 4.6 | 0.2 | 10.8 | |
| | | | | | | 17.3 |
| E 8-1 0-2' | BDL | 2.61 | 3.3 | 0.3 | 12.0 | |
| E 8-2 0-2' | BDL | 2.36 | 3.3 | 0.3 | 10.8 | |
| E 8-2 2-4' | BDL | 2.39 | 3.3 | 0.3 | 10.9 | |
| E 8-4 0-2' | BDL | 2.91 | 3.3 | 0.3 | 13.3 | |
| E 8-4 2-4' | BDL | 2.67 | 3.3 | 0.3 | 12.2 | |
| E 8-5 0-2' | BDL | 2.83 | 3.3 | 0.3 | 13.0 | |
| E 8-5 2-4' | BDL | 2.78 | 3.3 | 0.3 | 12.7 | |
| | | | | | | 12.1 |
| E 9-1 0-2' | | 2.83 | 3.3 | 0.3 | 13.0 | |
| E 9-1 2-4' | | 1.11 | 3.3 | 0.3 | 5.1 | |
| E 9-2 0-2' | BDL | 2.24 | 3.3 | 0.3 | 10.3 | |
| E 9-2 2-4' | | 1.81 | 3.3 | 0.3 | 8.3 | |
| E 9-4 0-2' | BDL | 2.60 | 3.3 | 0.3 | 11.9 | |
| E 9-4 2-4' | BDL | 2.40 | 3.3 | 0.3 | 11.0 | |
| E 9-5 0-2' | BDL | 2.72 | 3.3 | 0.3 | 12.5 | |
| E 9-5 2-4' | | 1.97 | 3.3 | 0.3 | 9.0 | |
| | | | | | | 10.1 |
| E 10-4 0-2.5 | BDL | 2.96 | 3.3 | 0.3 | 13.6 | |
| E 10-5 0-2 | BDL | 2.89 | 3.3 | 0.3 | 13.2 | |
| E 10-5 2-4 | BDL | 2.45 | 3.3 | 0.3 | 11.2 | |
| | | | | | | 12.7 |
| E 11-4 0-2.5 | BDL | 2.55 | 3.3 | 0.3 | 11.7 | |
| | | | | | | 18.1 |
| E12-1 0-2' | BDL | 2.01 | 1.3 | 0.3 | 5.2 | |
| E12-1 2-4' | | 2.52 | 1.3 | 0.3 | 6.5 | |
| E12-2 0-2' | BDL | 2.94 | 1.3 | 0.3 | 7.6 | |
| E12-2 2-4' | BDL | 2.75 | 1.3 | 0.3 | 7.1 | |
| E12-4 0-2' | BDL | 2.75 | 1.3 | 0.3 | 7.1 | |
| E12-4 2-4' | BDL | 1.82 | 1.3 | 0.3 | 4.7 | |
| E12-5 0-2' | BDL | 2.78 | 1.3 | 0.3 | 7.1 | |
| E12-5 2-4' | | 0.951 | 1.3 | 0.3 | 2.4 | |
| | | | | | | 5.9 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| E13-1 0-2' | BDL | 2.89 | 1.6 | 0.1 | 7.8 | |
| E13-1 2-4' | BDL | 2.41 | 1.6 | 0.1 | 6.5 | |
| E13-2 0-2' | BDL | 3.0 | 1.5 | 0.1 | 7.8 | |
| E13-2 2-4' | Isotopic | 1.10 | 1.5 | 0.1 | 2.8 | |
| E13-4 0-2' | BDL | 2.91 | 1.6 | 0.1 | 7.9 | |
| E13-4 2-4' | BDL | 2.05 | 1.6 | 0.1 | 5.6 | |
| E13-5 0-2' | BDL | 2.66 | 1.7 | 0.1 | 7.5 | |
| E13-5 2-4' | Isotopic | 3.00 | 1.7 | 0.1 | 8.5 | |
| | | | | | | 6.8 |
| E 14-3 0.2' | BDL | 2.31 | 1.3 | 0.4 | 6.3 | |
| E 14-3 2.4' | Isotopic | 1.29 | 1.3 | 0.4 | 3.5 | |
| | | | | | | 4.9 |
| F 3-1 0-2' | BDL | 2.07 | 4.9 | 0.3 | 12.7 | |
| F 3-1 2-4' | BDL | 2.83 | 4.9 | 0.3 | 17.4 | |
| F 3-2 0-2' | Isotopic | 2.31 | 4.9 | 0.3 | 14.2 | |
| F 3-5 0-2' | BDL | 2.83 | 4.9 | 0.3 | 17.4 | |
| F 3-5 2-4' | BDL | 2.04 | 4.9 | 0.3 | 12.5 | |
| | | | | | | 14.9 |
| F 4-1 0-2' | Isotopic | 7.42 | 6.1 | 0.6 | 57.2 | |
| F 4-1 2-4' | BDL | 2.09 | 6.1 | 0.6 | 16.1 | |
| F 4-2 0-2.5' | BDL | 2.41 | 6.1 | 0.6 | 18.6 | |
| F 4-4 0-2' | BDL | 2.36 | 6.1 | 0.6 | 18.2 | |
| F 4-4 2-4' | BDL | 2.76 | 6.1 | 0.6 | 21.3 | |
| F 4-4 2-4' | BDL | 2.09 | 6.1 | 0.6 | 16.1 | |
| | | | | | | 24.6 |
| F 5-1 0-2' | BDL | 2.28 | 6.6 | 0.5 | 18.4 | |
| F 5-1 2-4' | BDL | 2.81 | 6.6 | 0.5 | 22.7 | |
| F 5-2 0-2' | BDL | 2.27 | 6.6 | 0.5 | 18.4 | |
| F 5-4 0-2' | BDL | 2.82 | 6.6 | 0.5 | 22.8 | |
| F 5-4 2-4' | BDL | 2.31 | 6.6 | 0.5 | 18.7 | |
| F 5-5 0-2' | | 2.45 | 6.6 | 0.5 | 19.8 | |
| F 5-5 2-4' | BDL | 2.83 | 6.6 | 0.5 | 22.9 | |
| | | | | | | 20.5 |
| F 6-1 0-2.5' | | 3.59 | 1.2 | 0.2 | 8.6 | |
| F 6-2 0-2' | Isotopic | 32.00 | 45.6 | 2.1 | 1558.4 | |
| F 6-4 0-2' | Isotopic | 1.53 | 1.2 | 0.2 | 3.7 | |
| F 6-4 0-2' | BDL | 2.10 | 1.2 | 0.2 | 5.0 | |
| F 6-4 2-4' | BDL | 2.10 | 1.2 | 0.2 | 5.0 | |
| F 6-5 0-2' | BDL | 2.77 | 1.2 | 0.2 | 6.6 | |
| F 6-5 2-4' | BDL | 2.41 | 1.2 | 0.2 | 5.8 | |
| | | | | | | 227.6 |
| F 7-1 0-2.5' | BDL | 2.61 | 6.6 | 0.5 | 21.1 | |
| F 7-2 0-2' | BDL | 2.83 | 6.6 | 0.5 | 22.9 | |
| F 7-4 0-2' | BDL | 2.86 | 6.6 | 0.5 | 23.1 | |
| F 7-4 2-4' | BDL | 1.71 | 6.6 | 0.5 | 13.8 | |
| F 7-5 0-2' | BDL | 2.84 | 6.6 | 0.5 | 23.0 | |
| F 7-5 2-4' | BDL | 2.34 | 6.6 | 0.5 | 18.9 | |
| | | | | | | 20.5 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| F 8-1 0-2' | BDL | 2.64 | 3.3 | 0.3 | 12.1 | |
| F 8-1 2-4' | BDL | 2.01 | 3.3 | 0.3 | 9.2 | |
| F 8-2 0-2' | BDL | 2.01 | 3.3 | 0.3 | 9.2 | |
| F 8-2 2-4' | BDL | 2.39 | 3.3 | 0.3 | 10.9 | |
| F 8-4 0-2' | BDL | 2.69 | 3.3 | 0.3 | 12.3 | |
| F 8-4 2-4' | BDL | 2.81 | 3.3 | 0.3 | 12.9 | |
| F 8-5 0-2.5' | BDL | 2.40 | 3.3 | 0.3 | 11.0 | |
| | | | | | | 11.1 |
| F 9-1 0-2' | BDL | 2.04 | 3.3 | 0.3 | 9.3 | |
| F 9-1 2-4' | BDL | 1.91 | 3.3 | 0.3 | 8.7 | |
| F 9-2 0-2' | | 2.22 | 3.3 | 0.3 | 10.2 | |
| F 9-2 2-4' | BDL | 1.69 | 3.3 | 0.3 | 7.7 | |
| F 9-4 0-2' | Isotopic | 0.50 | 2.0 | 0.3 | 1.6 | |
| F 9-4 2-4' | BDL | 2.52 | 2.0 | 0.3 | 8.3 | |
| F 9-5 0-2' | Isotopic | 8.69 | 19.6 | 0.9 | 187.0 | |
| F 9-5 2-4' | | 3.17 | 19.6 | 0.9 | 68.2 | |
| | | | | | | 37.6 |
| F 10-1 0-2' | | 1.93 | 2.3 | 0.1 | 6.5 | |
| F 10-2 0-2' | Isotopic | 3.17 | 3.5 | 0.1 | 14.6 | |
| F 10-2 2-4' | BDL | 1.99 | 3.5 | 0.1 | 9.1 | |
| F 10-4 0-2' | BDL | 1.69 | 2.3 | 0.1 | 5.7 | |
| F 10-4 2-4' | BDL | 1.43 | 2.3 | 0.1 | 4.8 | |
| F 10-5 0-2' | BDL | 1.86 | 1.0 | 0.1 | 3.9 | |
| F 10-5 2-4' | Isotopic | 3.55 | 1.0 | 0.1 | 7.3 | |
| | | | | | | 7.4 |
| F 11-1 0-2' | BDL | 1.97 | 3.3 | 0.3 | 9.0 | |
| F 11-1 2-4' | BDL | 2.31 | 3.3 | 0.3 | 10.6 | |
| F 11-2 0-2' | BDL | 2.04 | 3.3 | 0.3 | 9.3 | |
| F 11-2 2-4' | BDL | 2.86 | 3.3 | 0.3 | 13.1 | |
| F11-4 0-2' | BDL | 2.06 | 3.3 | 0.3 | 9.4 | |
| F11-4 2-4' | BDL | 2.77 | 3.3 | 0.3 | 12.7 | |
| F11-5 0-2' | BDL | 2.98 | 3.3 | 0.3 | 13.6 | |
| F11-5 2-4' | BDL | 2.21 | 3.3 | 0.3 | 10.1 | |
| | | | | | | 11.0 |
| F12-1 0-2' | BDL | 3.00 | 1.6 | 0.3 | 8.7 | |
| F12-1 2-4' | BDL | 2.75 | 1.6 | 0.3 | 7.9 | |
| F12-2 0-2' | BDL | 2.92 | 1.2 | 0.1 | 6.7 | |
| F12-2 2-4' | Isotopic | 1.20 | 1.2 | 0.1 | 2.8 | |
| F12-4 0-2' | BDL | 2.38 | 1.6 | 0.3 | 6.9 | |
| F12-4 2-4' | BDL | 2.78 | 1.6 | 0.3 | 8.0 | |
| F12-5 0-2' | Isotopic | 0.52 | 2.0 | 0.5 | 1.8 | |
| F12-5 2-4' | BDL | 2.54 | 2.0 | 0.5 | 8.9 | |
| | | | | | | 6.5 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|--------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| F13-1 0-2' | BDL | 2.18 | 1.3 | 0.3 | 5.6 | |
| F13-1 2-4' | BDL | 1.99 | 1.3 | 0.3 | 5.1 | |
| F13-2 0-2' | BDL | 2.53 | 1.3 | 0.3 | 6.5 | |
| F13-2 2-4' | | 2.13 | 1.3 | 0.3 | 5.5 | |
| F13-4 0-2' | BDL | 4.98 | 1.3 | 0.3 | 12.8 | |
| F13-4 2-4' | BDL | 2.62 | 1.3 | 0.3 | 6.7 | |
| F13-5 0-2' | BDL | 2.71 | 1.3 | 0.3 | 7.0 | |
| F13-5 2-4' | BDL | 2.75 | 1.3 | 0.3 | 7.1 | |
| | | | | | | 6.5 |
| F 14-3 0-2' | BDL | 2.97 | 1.8 | 0.3 | 9.1 | |
| F 14-3 2-4' | BDL | 2.71 | 1.8 | 0.3 | 8.3 | |
| | | | | | | 8.7 |
| G 3-1 0-2' | BDL | 2.44 | 6.6 | 0.5 | 19.7 | |
| G 3-1 2-4' | BDL | 2.14 | 6.6 | 0.5 | 17.3 | |
| G 3-2 0-2' | BDL | 1.89 | 6.6 | 0.5 | 15.3 | |
| G 3-2 2-4' | BDL | 2.63 | 6.6 | 0.5 | 21.3 | |
| G 3-4 0-2' | BDL | 2.52 | 6.6 | 0.5 | 20.4 | |
| G 3-5 0-2' | BDL | 2.70 | 6.6 | 0.5 | 21.8 | |
| G 3-5 2-4' | BDL | 2.68 | 6.6 | 0.5 | 21.7 | |
| | | | | | | 19.6 |
| G 4-1 0-2' | BDL | 1.79 | 6.6 | 0.5 | 14.5 | |
| G 4-1 2-4' | BDL | 2.67 | 6.6 | 0.5 | 21.6 | |
| G 4-2 0-2' | BDL | 2.05 | 6.6 | 0.5 | 16.6 | |
| G 4-2 2-4' | BDL | 2.02 | 6.6 | 0.5 | 16.3 | |
| G 4-4 0-2' | BDL | 1.85 | 6.6 | 0.5 | 15.0 | |
| G 4-5 0-2.5' | BDL | 2.48 | 6.6 | 0.5 | 20.1 | |
| | | | | | | 17.3 |
| G 5-1 0-2' | BDL | 2.69 | 6.6 | 0.5 | 21.8 | |
| G 5-1 2-4' | BDL | 1.79 | 6.6 | 0.5 | 14.5 | |
| G 5-2 0-2' | BDL | 2.36 | 6.6 | 0.5 | 19.1 | |
| G 5-2 2-4' | BDL | 1.94 | 6.6 | 0.5 | 15.7 | |
| G 5-4 0-2' | BDL | 2.04 | 6.6 | 0.5 | 16.5 | |
| G 5-4 2-4' | BDL | 2.97 | 6.6 | 0.5 | 24.0 | |
| G 5-5 0-2' | BDL | 2.64 | 6.6 | 0.5 | 21.4 | |
| G 5-5 2-4' | BDL | 2.06 | 6.6 | 0.5 | 16.7 | |
| | | | | | | 18.7 |
| G 6-1 0-2' | Isotopic | 6.79 | 6.6 | 0.8 | 56.7 | |
| G 6-1 2-4' | BDL | 1.97 | 6.6 | 0.8 | 16.4 | |
| G 6-2 0-2' | BDL | 2.87 | 6.6 | 0.8 | 24.0 | |
| G 6-2 2-4' | | 1.98 | 6.6 | 0.8 | 16.5 | |
| G 6-4 0-2' | | 3.09 | 6.6 | 0.8 | 25.8 | |
| G 6-4 2-4' | BDL | 2.20 | 6.6 | 0.8 | 18.4 | |
| G 6-5 0-2' | BDL | 2.44 | 6.6 | 0.8 | 20.4 | |
| | | | | | | 25.5 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|---------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| G 7-1 0-2' | Isotopic | 8.96 | 6.8 | 0.3 | 72.9 | |
| G 7-1 2-4' | BDL | 2.89 | 6.8 | 0.3 | 23.5 | |
| G 7-2 0-2' | Isotopic | 12.90 | 1.6 | 0.2 | 36.1 | |
| G 7-2 2-4' | BDL | 3.00 | 1.6 | 0.2 | 8.4 | |
| G 7-4 0-2' | Isotopic | 10.60 | 9.6 | 0.6 | 119.1 | |
| G 7-4 2-4' | BDL | 2.91 | 9.6 | 0.6 | 32.7 | |
| G 7-5 0-2' | Isotopic | 19.60 | 3.1 | 0.5 | 90.0 | |
| G 7-5 2-4' | BDL | 1.92 | 3.1 | 0.5 | 8.8 | |
| | | | | | | 49.0 |
| G 8-1 0-2' | | 4.12 | 2.3 | 0.2 | 14.5 | |
| G 8-1 2-4' | | 4.00 | 2.3 | 0.2 | 14.1 | |
| G 8-2 0-2' | Isotopic | 9.78 | 2.5 | 0.2 | 36.4 | |
| G 8-2 2-4' | BDL | 1.96 | 2.5 | 0.2 | 7.3 | |
| G 8-4 0-2' | Isotopic | 16.60 | 2.1 | 0.2 | 55.4 | |
| G 8-4 2-4' | BDL | 2.85 | 2.1 | 0.2 | 9.5 | |
| G 8-5 0-2.5' | | 2.50 | 2.3 | 0.2 | 8.8 | |
| | | | | | | 20.9 |
| G 9-1 0-2' | Isotopic | 0.64 | 3.6 | 0.2 | 3.1 | |
| G 9-1 2-4' | BDL | 2.19 | 3.6 | 0.2 | 10.5 | |
| G 9-2 0-2' | BDL | 2.74 | 2.6 | 0.3 | 10.6 | |
| G 9-2 2-4' | BDL | 2.11 | 2.6 | 0.3 | 8.1 | |
| G 9-4 0-2' | | 2.53 | 2.6 | 0.3 | 9.8 | |
| G 9-4 2-4' | BDL | 2.06 | 2.6 | 0.3 | 8.0 | |
| G 9-5 0-2' | Isotopic | 0.40 | 1.6 | 0.3 | 1.2 | |
| G 9-5 2-4' | BDL | 2.79 | 1.6 | 0.3 | 8.0 | |
| | | | | | | 7.4 |
| G 10-1 0-2' | Isotopic | 0.26 | 1.6 | 0.2 | 0.7 | |
| G 10-1 2-4' | BDL | 1.91 | 1.6 | 0.2 | 5.4 | |
| G 10-4 0-2' | BDL | 2.09 | 1.6 | 0.2 | 5.9 | |
| G 10-4 2-4' | BDL | 2.36 | 1.6 | 0.2 | 6.6 | |
| G 10-2 0-2.5' | BDL | 2.40 | 1.6 | 0.2 | 6.7 | |
| G 10-5 0-2.5' | BDL | 1.01 | 1.6 | 0.2 | 2.8 | |
| | | | | | | 4.7 |
| G 11-1 0-2' | BDL | 2.12 | 3.3 | 0.3 | 9.7 | |
| G 11-2 0-2.5' | BDL | 2.82 | 3.3 | 0.3 | 12.9 | |
| G 11-4 0-2' | BDL | 1.87 | 3.3 | 0.3 | 8.6 | |
| G 11-4 2-4' | BDL | 2.44 | 3.3 | 0.3 | 11.2 | |
| G 11-5 0-2' | BDL | 2.57 | 3.3 | 0.3 | 11.8 | |
| G 11-5 2-4' | BDL | 2.83 | 3.3 | 0.3 | 13.0 | |
| | | | | | | 11.2 |
| G 12-1 0-2' | BDL | 2.79 | 1.3 | 0.3 | 7.2 | |
| G 12-2 0-2' | BDL | 2.98 | 1.3 | 0.3 | 7.7 | |
| G 12-2 2-4' | BDL | 2.24 | 1.3 | 0.3 | 5.8 | |
| G 12-4 0-2' | BDL | 2.03 | 1.3 | 0.3 | 5.2 | |
| G 12-4 2-4' | BDL | 2.51 | 1.3 | 0.3 | 6.5 | |
| G 12-5 0-2' | BDL | 2.02 | 1.3 | 0.3 | 5.2 | |
| | | | | | | 6.2 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| G 13-1 0-2' | BDL | 2.80 | 0.9 | 0.5 | 6.7 | |
| G 13-1 2-4' | BDL | 2.76 | 0.9 | 0.5 | 6.6 | |
| G 13-2 0-2' | BDL | 2.12 | 0.9 | 0.5 | 5.0 | |
| G 13-2 2-4' | BDL | 2.01 | 0.9 | 0.5 | 4.8 | |
| G 13-4 0-2' | | 2.75 | 0.9 | 0.5 | 6.5 | |
| G 13-4 2-4' | BDL | 2.93 | 0.9 | 0.5 | 7.0 | |
| G13-5 0-2.5' | Isotopic | 1.13 | 0.9 | 0.5 | 2.7 | |
| | | | | | | 5.6 |
| G 14-3 2.4' | BDL | 2.44 | 1.8 | 0.3 | 7.5 | |
| G 14-3 0.2' | BDL | 2.5 | 1.8 | 0.3 | 7.7 | |
| | | | | | | 7.6 |
| H 3-1 0-2' | BDL | 2.73 | 5.4 | 0.2 | 18.1 | |
| H 3-1 2-4' | BDL | 2.35 | 5.4 | 0.2 | 15.6 | |
| H 3-2 0-2' | BDL | 2.51 | 5.4 | 0.2 | 16.6 | |
| H 3-2 2-4' | BDL | 2.63 | 5.4 | 0.2 | 17.4 | |
| H 3-4 0-2' | Isotopic | 4.11 | 5.4 | 0.2 | 27.2 | |
| H 3-4 2-4' | BDL | 2.49 | 5.4 | 0.2 | 16.5 | |
| H 3-5 0-2' | | 3.13 | 5.4 | 0.2 | 20.7 | |
| H 3-5 2-4' | BDL | 2.87 | 5.4 | 0.2 | 19.0 | |
| | | | | | | 18.9 |
| H 4-1 0-2' | BDL | 2.91 | 6.6 | 0.5 | 23.5 | |
| H 4-2 0-2' | BDL | 1.88 | 6.6 | 0.5 | 15.2 | |
| H 4-2 2-4' | | 2.71 | 6.6 | 0.5 | 21.9 | |
| H 4-4 0-2.5' | BDL | 2.65 | 6.6 | 0.5 | 21.4 | |
| H 4-5 0-2' | BDL | 2.49 | 6.6 | 0.5 | 20.1 | |
| H 4-5 2-4' | BDL | 2.40 | 6.6 | 0.5 | 19.4 | |
| | | | | | | 20.3 |
| H 5-1 0-2.5' | | 4.27 | 6.6 | 0.6 | 34.9 | |
| H 5-2 0-2' | Isotopic | 3.35 | 9.2 | 0.4 | 35.6 | |
| H 5-2 2-4' | BDL | 1.77 | 9.2 | 0.4 | 18.8 | |
| H 5-4 0-2' | | 2.53 | 6.6 | 0.6 | 20.7 | |
| H 5-4 2-4' | BDL | 2.42 | 6.6 | 0.6 | 19.8 | |
| H 5-5 0-2' | BDL | 1.04 | 4.2 | 0.7 | 6.1 | |
| H 5-5 2-4' | | 4.74 | 4.2 | 0.7 | 28.0 | |
| H 5-5 4-6' | Isotopic | 7.85 | 4.2 | 0.7 | 46.3 | |
| | | | | | | 26.3 |
| H 6-1 0-2' | BDL | 2.65 | 6.8 | 0.5 | 22.1 | |
| H 6-1 2-4' | BDL | 1.74 | 6.8 | 0.5 | 14.5 | |
| H 6-2 0-2' | Isotopic | 8.28 | 6.8 | 0.5 | 69.0 | |
| H 6-4 0-2.5' | | 2.68 | 6.8 | 0.5 | 22.3 | |
| H 6-5 0-2' | | 2.15 | 6.8 | 0.5 | 17.9 | |
| H 6-5 2-4' | BDL | 2.09 | 6.8 | 0.5 | 17.4 | |
| | | | | | | 27.2 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|--------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| H 7-1 0-4' | BDL | 1.89 | 6.6 | 0.5 | 15.3 | |
| H 7-1 4-8' | BDL | 1.97 | 6.6 | 0.5 | 15.9 | |
| H 7-2 0-2' | BDL | 2.03 | 6.6 | 0.5 | 16.4 | |
| H 7-2 2-4' | BDL | 1.14 | 6.6 | 0.5 | 9.2 | |
| H7-4 0-2' | Isotopic | 56.70 | 17.0 | 1.6 | 1111.3 | |
| H7-4 2-4' | BDL | 1.70 | 17.0 | 1.6 | 33.3 | |
| H7-5 0-2.5' | BDL | 2.09 | 6.6 | 0.5 | 16.9 | |
| | | | | | | 174.1 |
| H8-1 0-2' | | 2.62 | 3.3 | 0.3 | 12.0 | |
| H8-2 0-2' | BDL | 2.42 | 3.3 | 0.3 | 11.1 | |
| H8-4 0-2.5' | BDL | 2.59 | 3.3 | 0.3 | 11.9 | |
| H8-5 0-2' | BDL | 2.55 | 3.3 | 0.3 | 11.7 | |
| H8-5 2-4' | BDL | 1.28 | 3.3 | 0.3 | 5.9 | |
| | | | | | | 10.5 |
| H9-1 0-2' | BDL | 2.82 | 1.6 | 0.3 | 8.2 | |
| H9-2 0-2' | Isotopic | 2.51 | 1.6 | 0.3 | 7.3 | |
| H9-2 2-4' | BDL | 1.44 | 1.6 | 0.3 | 4.2 | |
| H9-4 0-2.5' | BDL | 1.56 | 1.6 | 0.3 | 4.5 | |
| H9-5 0-2' | BDL | 2.92 | 1.6 | 0.3 | 8.5 | |
| H9-5 2-4' | | 3.62 | 1.6 | 0.3 | 10.5 | |
| | | | | | | 7.2 |
| H10-1 0-2' | BDL | 2.58 | 3.9 | 0.2 | 13.2 | |
| H10-1 2-4' | BDL | 2.64 | 3.9 | 0.2 | 13.5 | |
| H10-2 0-2' | BDL | 1.97 | 3.9 | 0.2 | 10.1 | |
| H10-2 2-4' | BDL | 2.29 | 3.9 | 0.2 | 11.7 | |
| H10-4 0-2' | | 2.57 | 3.9 | 0.2 | 13.2 | |
| H10-4 2-4' | BDL | 1.60 | 3.9 | 0.2 | 8.2 | |
| H10-5 0-2' | Isotopic | 1.22 | 3.9 | 0.2 | 6.3 | |
| H10-5 2-4' | BDL | 2.87 | 3.9 | 0.2 | 14.7 | |
| | | | | | | 11.4 |
| H11-1 0-2' | | 2.64 | 3.3 | 0.3 | 12.1 | |
| H11-1 2-4' | BDL | 2.18 | 3.3 | 0.3 | 10.0 | |
| H11-2 0-2' | BDL | 2.12 | 3.3 | 0.3 | 9.7 | |
| H11-2 0-2.5' | BDL | 1.60 | 3.3 | 0.3 | 7.3 | |
| H11-2 2-4' | BDL | 2.08 | 3.3 | 0.3 | 9.5 | |
| H11-4 0-2' | BDL | 3.17 | 3.3 | 0.3 | 14.5 | |
| H11-4 2-4' | BDL | 2.71 | 3.3 | 0.3 | 12.4 | |
| | | | | | | 10.8 |
| H12-1 0-3' | BDL | 1.99 | 1.3 | 0.3 | 5.1 | |
| H12-2 0-2' | BDL | 2.28 | 1.3 | 0.3 | 5.9 | |
| H12-2 2-4' | | 2.72 | 1.3 | 0.3 | 7.0 | |
| H12-4 0-2' | BDL | 2.15 | 1.3 | 0.3 | 5.5 | |
| H12-4 2-4' | BDL | 2.39 | 1.3 | 0.3 | 6.1 | |
| H12-5 0-2' | BDL | 1.38 | 1.3 | 0.3 | 3.5 | |
| H12-5 2-4' | BDL | 1.94 | 1.3 | 0.3 | 5.0 | |
| | | | | | | 5.5 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 | Ratio | Ratio | U-Total | U-Total Avg |
|--------------|----------|-------------|-------------------|-------------------|---------|-------------|
| | | pCi/g | U^{234}/U^{238} | U^{235}/U^{238} | pCi/g | pCi/g |
| H13-2 0-2' | | 2.52 | 1.3 | 0.3 | 6.5 | |
| H13-2 2-4' | BDL | 2.50 | 1.3 | 0.3 | 6.4 | |
| H13-4 0-2' | BDL | 2.11 | 1.3 | 0.3 | 5.4 | |
| H13-4 2-4' | BDL | 2.31 | 1.3 | 0.3 | 5.9 | |
| H13-5 0-2' | BDL | 2.31 | 1.3 | 0.3 | 5.9 | |
| H13-5 0-2.5' | BDL | 1.36 | 1.3 | 0.3 | 3.5 | |
| H13-5 2.5-5' | BDL | 2.18 | 1.3 | 0.3 | 5.6 | |
| H13-5 2-4' | BDL | 2.62 | 1.3 | 0.3 | 6.7 | |
| | | | | | | 5.8 |
| H 14-3 0.2' | BDL | 2.88 | 1.8 | 0.3 | 8.9 | |
| H 14-3 2.4' | BDL | 2.48 | 1.8 | 0.3 | 7.6 | |
| | | | | | | 8.3 |
| I 3-1 0-2' | BDL | 2.36 | 6.6 | 0.5 | 19.1 | |
| I 3-1 2-4' | BDL | 2.43 | 6.6 | 0.5 | 19.7 | |
| I 3-2 0-2' | | 3.22 | 6.6 | 0.5 | 26.0 | |
| I 3-4 0-2' | BDL | 2.95 | 6.6 | 0.5 | 23.9 | |
| I 3-5 0-2' | BDL | 3.00 | 6.6 | 0.5 | 24.3 | |
| I 3-5 2-4' | BDL | 1.70 | 6.6 | 0.5 | 13.8 | |
| | | | | | | 21.1 |
| I 4-1 0-2' | BDL | 2.90 | 5.7 | 0.4 | 20.5 | |
| I 4-2 0-2' | Isotopic | 7.44 | 5.7 | 0.4 | 52.7 | |
| I 4-2 2-4' | BDL | 2.09 | 5.7 | 0.4 | 14.8 | |
| I 4-4 0-2.5' | BDL | 3.00 | 5.7 | 0.4 | 21.2 | |
| I 4-5 0-2' | BDL | 2.12 | 5.7 | 0.4 | 15.0 | |
| I 4-5 2-4' | BDL | 2.33 | 5.7 | 0.4 | 16.5 | |
| | | | | | | 23.5 |
| I 5-1 0-2' | Isotopic | 47.0 | 4.0 | 0.1 | 238.8 | |
| I 5-1 2-4' | BDL | 2.88 | 4.0 | 0.1 | 14.6 | |
| I 5-2 0-2' | BDL | 2.62 | 6.6 | 0.5 | 21.2 | |
| I 5-2 2-4' | BDL | 2.75 | 6.6 | 0.5 | 22.2 | |
| I 5-4 0-2' | BDL | 2.47 | 6.6 | 0.5 | 20.0 | |
| I 5-4 2-4' | BDL | 3.00 | 6.6 | 0.5 | 24.3 | |
| I 5-5 0-2' | BDL | 2.35 | 6.6 | 0.5 | 19.0 | |
| I 5-5 2-4' | BDL | 2.80 | 6.6 | 0.5 | 22.7 | |
| | | | | | | 47.8 |
| I 6-1 2-4' | Isotopic | 14.30 | 8.0 | 0.1 | 129.6 | |
| I 6-1 0-2' | BDL | 2.59 | 8.0 | 0.1 | 23.5 | |
| I 6-2 0-2' | | 3.43 | 6.6 | 0.5 | 27.7 | |
| I 6-2 2-4' | | 1.80 | 6.6 | 0.5 | 14.6 | |
| I 6-4 0-2.5' | | 2.70 | 6.6 | 0.5 | 21.8 | |
| I 6-5 0-2' | BDL | 1.69 | 6.6 | 0.5 | 13.7 | |
| I 6-5 2-4' | BDL | 1.87 | 6.6 | 0.5 | 15.1 | |
| | | | | | | 35.1 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|---------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| I 7-1 0-2' | | 3.37 | 6.6 | 0.5 | 27.3 | |
| I 7-1 2-4' | BDL | 2.55 | 6.6 | 0.5 | 20.6 | |
| I 7-2 0-2' | BDL | 2.78 | 6.6 | 0.5 | 22.5 | |
| I 7-2 2-4' | BDL | 2.16 | 6.6 | 0.5 | 17.5 | |
| I 7-4 0-2' | BDL | 2.44 | 6.6 | 0.5 | 19.7 | |
| I 7-4 2-4' | BDL | 2.52 | 6.6 | 0.5 | 20.4 | |
| I 7-5 0-2' | | 2.04 | 6.6 | 0.5 | 16.5 | |
| I 7-5 2-4' | BDL | 1.99 | 6.6 | 0.5 | 16.1 | |
| | | | | | | 20.1 |
| I 8-1 0-2' | BDL | 1.98 | 3.3 | 0.3 | 9.1 | |
| I 8-1 2-4' | BDL | 2.00 | 3.3 | 0.3 | 9.2 | |
| I 8-4 0-2' | BDL | 2.80 | 3.3 | 0.3 | 12.8 | |
| I 8-4 2-4' | BDL | 1.71 | 3.3 | 0.3 | 7.8 | |
| I 8-5 0-2' | BDL | 1.98 | 3.3 | 0.3 | 9.1 | |
| I 8-2 0-2' | BDL | 1.50 | 3.3 | 0.3 | 6.9 | |
| I 8-2 2-4' | BDL | 1.07 | 3.3 | 0.3 | 4.9 | |
| | | | | | | 8.5 |
| I 9-1 0-2' | | 1.15 | 3.3 | 0.3 | 5.3 | |
| I 9-2 0-2.5' | BDL | 1.06 | 3.3 | 0.3 | 4.9 | |
| I 9-4 0-2' | BDL | 2.82 | 3.3 | 0.3 | 12.9 | |
| I 9-5 0-2' | BDL | 2.94 | 3.3 | 0.3 | 13.5 | |
| I 9-5 2-4' | | 2.65 | 3.3 | 0.3 | 12.1 | |
| | | | | | | 9.7 |
| I 10-1 0-2' | BDL | 2.27 | 1.4 | 0.3 | 6.1 | |
| I 10-1 2-4' | BDL | 2.28 | 1.4 | 0.3 | 6.1 | |
| I 10-2 0-2' | BDL | 1.46 | 1.4 | 0.3 | 3.9 | |
| I 10-4 0-2' | BDL | 1.74 | 1.4 | 0.3 | 4.7 | |
| I 10-4 2-4' | BDL | 2.85 | 1.4 | 0.3 | 7.7 | |
| I 10-5 0-2' | BDL | 2.99 | 1.4 | 0.3 | 8.0 | |
| I 10-5 2-4' | Isotopic | 0.35 | 1.4 | 0.3 | 0.9 | |
| | | | | | | 5.4 |
| I 11-4 0-2' | BDL | 2.30 | 3.3 | 0.3 | 10.5 | |
| I 11-4 2-4' | BDL | 1.92 | 3.3 | 0.3 | 8.8 | |
| I 11-5 0-2' | BDL | 2.36 | 3.3 | 0.3 | 10.8 | |
| I 11-5 2-4' | BDL | 1.77 | 3.3 | 0.3 | 8.1 | |
| I 11-1 0-2' | BDL | 2.97 | 3.3 | 0.3 | 13.6 | |
| I 11-1 2-4' | BDL | 2.37 | 3.3 | 0.3 | 10.9 | |
| I 11-2 0-2' | BDL | 1.96 | 3.3 | 0.3 | 9.0 | |
| I 11-2 2-4' | | 2.23 | 3.3 | 0.3 | 10.2 | |
| | | | | | | 10.2 |
| I 12-1 0-2.5' | BDL | 2.71 | 1.3 | 0.3 | 7.0 | |
| I 12-2 0-2' | BDL | 2.85 | 1.3 | 0.3 | 7.3 | |
| I 12-2 2-4' | BDL | 3.00 | 1.3 | 0.3 | 7.7 | |
| I 12-4 0-2' | BDL | 1.90 | 1.3 | 0.3 | 4.9 | |
| I 12-4 2-4' | BDL | 2.45 | 1.3 | 0.3 | 6.3 | |
| I 12-5 0-2.5' | BDL | 2.98 | 1.3 | 0.3 | 7.7 | |
| | | | | | | 6.8 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|-------------|----------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| I13-1 0-2' | Isotopic | 1.86 | 0.8 | 0.1 | 3.5 | |
| I13-1 2-4' | | 2.31 | 0.8 | 0.1 | 4.4 | |
| I13-2 0-2' | BDL | 1.71 | 0.9 | 0.2 | 3.5 | |
| I13-2 2-4' | BDL | 2.22 | 0.9 | 0.2 | 4.5 | |
| I13-4 0-2' | Isotopic | 0.99 | 0.9 | 0.3 | 2.1 | |
| I13-4 2-4' | | 4.44 | 0.9 | 0.3 | 9.6 | |
| I13-5 0-2' | BDL | 2.68 | 0.9 | 0.2 | 5.4 | |
| I13-5 2-4' | BDL | 2.08 | 0.9 | 0.2 | 4.2 | |
| | | | | | | 4.7 |
| I 14-3 0-2' | | 3.0 | 1.8 | 0.3 | 9.2 | |
| I 14-3 2-4' | BDL | 1.92 | 1.8 | 0.3 | 5.9 | |
| | | | | | | 7.6 |
| J1-3 0-2' | BDL | 1.97 | 1.8 | 0.3 | 6.1 | |
| J1-3 2-4' | BDL | 2.97 | 1.8 | 0.3 | 9.1 | |
| | | | | | | 7.6 |
| J2-3 0-2' | BDL | 2.65 | 1.8 | 0.3 | 8.2 | |
| J2-3 2-4' | BDL | 2.9 | 1.8 | 0.3 | 8.9 | |
| | | | | | | 8.5 |
| J 3-3 0-2' | Isotopic | 1.39 | 0.6 | 0.1 | 2.4 | |
| J 3-3 2-4' | BDL | 2.48 | 0.6 | 0.1 | 4.2 | |
| | | | | | | 3.3 |
| J 4-3 0.2' | BDL | 2.42 | 1.8 | 0.3 | 7.5 | |
| J 4-3 2.4' | BDL | 2.33 | 1.8 | 0.3 | 7.2 | |
| | | | | | | 7.3 |
| J 5-3 0.2' | BDL | 2.5 | 1.8 | 0.3 | 7.7 | |
| J 5-3 2.4' | | 2.23 | 1.8 | 0.3 | 6.9 | |
| | | | | | | 7.3 |
| J6-3 2-4' | BDL | 1.99 | 1.8 | 0.3 | 6.1 | |
| J6-3 0.2' | BDL | 1.6 | 1.8 | 0.3 | 4.9 | |
| | | | | | | 5.5 |
| J7-3 2.4' | BDL | 2.62 | 1.8 | 0.3 | 8.1 | |
| J 7-3 0.2' | BDL | 2.47 | 1.8 | 0.3 | 7.6 | |
| | | | | | | 7.8 |
| J 8-3 0.2' | BDL | 1.10 | 1.8 | 0.3 | 3.4 | |
| J 8-3 2.4' | BDL | 2.6 | 1.8 | 0.3 | 8.0 | |
| | | | | | | 5.7 |
| J 9-3 0-2' | | 1.68 | 1.8 | 0.3 | 5.2 | |
| J 9-3 2-4' | BDL | 2.58 | 1.8 | 0.3 | 7.9 | |
| | | | | | | 6.6 |
| J 10-3 0-2' | BDL | 2.53 | 1.8 | 0.3 | 7.8 | |
| J 10-3 2-4' | BDL | 2.83 | 1.8 | 0.3 | 8.7 | |
| | | | | | | 8.3 |
| J 11-3 0-2' | Isotopic | 1.25 | 1.2 | 0.1 | 2.9 | |
| J 11-3 2-4' | | 4.26 | 1.2 | 0.1 | 9.9 | |
| | | | | | | 6.4 |
| J 12-3 0-2' | BDL | 2.7 | 1.8 | 0.3 | 8.3 | |
| J 12-3 2-4' | BDL | 2.65 | 1.8 | 0.3 | 8.2 | |
| | | | | | | 8.2 |

Total Uranium and Average Total Uranium

| Location | Comment | Gross U-238 pCi/g | Ratio U^{234}/U^{238} | Ratio U^{235}/U^{238} | U-Total pCi/g | U-Total Avg pCi/g |
|-------------|---------|----------------------|----------------------------|----------------------------|------------------|----------------------|
| J 13-3 0-2' | BDL | 2.1 | 1.8 | 0.3 | 6.5 | |
| J 13-3 2-4' | BDL | 2.2 | 1.8 | 0.3 | 6.8 | |
| J 14-3 0-2' | BDL | 2.66 | 1.8 | 0.3 | 8.2 | 6.6 |
| J 14-3 2-4' | BDL | 2.30 | 1.8 | 0.3 | 7.1 | |
| | | | | | | 7.6 |