

**Temporary Debris Storage (TDS) Site Monitoring**  
**U.S. Army Corps of Engineers and County of Maui Department of Environmental Management**  
**November 25, 2025**

The Temporary Debris Storage (TDS) site located in Olowalu is estimated to have received 380,493 tons of ash and debris, reaching just over half of its original design capacity. The TDS site was designed to protect the soil, groundwater, and the ocean. It was closely monitored by USACE, County of Maui, and Hawai'i Department of Health (DOH) to ensure no impacts to the surrounding area or the marine environment from the ash and debris, along with any leachate or rainwater run-off generated.

A Stormwater Pollution Prevention Plan (SWPPP) was developed outlining activities to prevent contamination of the surrounding area from site operations. The SWPPP complied with applicable state and federal requirements.

On January 21, 2024, the County of Maui approved Ordinance #5596, also known as "Bill #120." Among other recordkeeping, operational and planning requirements, the ordinance required the following specific monitoring at the TDS site:

- 1) Leachate quantity, quality, and treatment processes, if required
- 2) Run-off, including nearby waterways
- 3) Air quality for toxins and contaminants

The data from this monitoring must be made publicly available, which is the purpose of this section. Quarterly reports have been developed and submitted to the Maui County Council as follows:

| Report | Dates                  |
|--------|------------------------|
| 1      | 1/21/2024 – 4/21/2024  |
| 2      | 4/21/2024 – 7/20/2024  |
| 3      | 7/19/2024 – 10/17/2024 |
| 4      | 10/18/2024 – 1/15/2025 |
| 5      | 1/16/2025 – 4/16/2025  |
| 6      | 4/17/2025 – 7/15/2025  |
| 7      | 7/16/2025 – 10/14/2025 |

The quarterly reports are posted [here](#).

**1) Leachate**

Due to the dry conditions in West Maui, baseline sampling of run-off water was collected directly from a leachate basin two days after a significant storm event on January 9, 2024. Approximately 3" of rain fell over 24 hours during this storm event, generating approximately 500,000 gallons of run-off, which was collected in the leachate basin. At the time of the storm, no ash or debris had been placed in the TDS site working area, so the run-off represented typical precipitation run-off un-impacted by waste, therefore considered typical of what normally runs off the natural soils present in the area.

Since the preliminary, baseline sampling event, USACE sampled the leachate basin if there was a 1" or greater storm event. The results from the last sample taken on October 9, 2025, are found in Table 1.

The leachate basin was removed in mid-November, with the remaining leachate removed with sediment that had collected at the bottom. The protective liner was also removed for shredding and disposal at the PDS. Therefore, no additional leachate samples will be taken.

Table 1 shows the analytes and parameters analyzed by environmental laboratories, along with the results from samplings conducted by USACE to date. Not all parameters shown below were analyzed by the laboratory during each event, as additional parameters were added at the request of DOH and Maui County after the baseline sampling event on January 11, 2024.

Table 1. Leachate monitoring analytes and parameters.

| Parameter                          | Method*   | 1/11/2024<br>(Baseline) | 1/30/2024 | 2/8/2024 | 2/13/2024 | 2/20/2024 | 4/15/2024 | 5/20/2024 | 2/3/2025 | 10/9/2025 | Units |
|------------------------------------|-----------|-------------------------|-----------|----------|-----------|-----------|-----------|-----------|----------|-----------|-------|
| TSS                                | SM 2540D  | 316                     | 46        | 32       | 8         | -         | 39        | 23        | 5.9      | 10        | mg/L  |
| TDS                                | EPA 2540C | NS                      | NS        | 289      | 315       | -         | 670       | 730       | NS       | NS        | mg/L  |
| TOC                                | EPA 5310C | NS                      | NS        | 7.96     | 9.16      | -         | 7.0       | 11        | NS       | NS        | mg/L  |
| COD                                | EPA 410.4 | NS                      | NS        | 15.5     | 12        | -         | 38        | 59        | 35       | 27        | mg/L  |
| Turbidity                          | EPA 180.1 | 650                     | 103       | NS       | NS        | -         | 80        | 11        | 14       | 7.1       | NTU   |
| Total Alkalinity                   | EPA 2320B | NS                      | NS        | 69.9     | 74.1      | -         | 44        | 42        | NS       | NS        | mg/L  |
| Nitrogen-Total                     | EPA 351.2 | NS                      | NS        | 15.9     | 16.5      | -         | 22        | 21        | 1.4      | 1.3       | mg/L  |
| Nitrates                           | EPA 353.2 | NS                      | 10.1      | 14.4     | 15        | -         | 21        | 15        | 17       | 17        | mg/L  |
| Nitrites                           | EPA 353.2 | NS                      | 0.369     | 0.74     | 0.59      | -         | 0.32      | 1.5       | 0.27     | 0.14      | mg/L  |
| Oil & Grease                       | EPA 1664B | < 5.0                   | 3.9       | < 5.0    | 9         | -         | 1.5       | 1.4       | 2.6      | 3.0       | mg/L  |
| TPH                                | EPA 1664B | < 5.0                   | NS        | NS       | NS        | -         | 4.1       | 4.0       | NS       | NS        | mg/L  |
| DRO (C10-28)                       | EPA 8015D | NS                      | NS        | NS       | NS        | -         | 250       | 290       | NS       | NS        | µg/L  |
| Chlorine                           | EPA 330.4 | NS                      | < 0.01    | 0.317    | 0.283     | -         | ND        | ND        | NS       | NS        | mg/L  |
| Hex Chromium                       | EPA 218.6 | NS                      | 0.185     | NS       | NS        | -         | NS        | NS        | NS       | NS        | mg/L  |
| Cyanide-Total                      | EPA 9012A | NS                      | NS        | NS       | NS        | -         | 0.021     | ND        | ND       | ND        | mg/L  |
| Carbonate                          |           | NS                      | NS        | 1.2      | 5         | -         | 6         | 5.6       | NS       | NS        | mg/L  |
| Ammonia                            | EPA 350.1 | NS                      | NS        | NS       | NS        | -         | ND        | 0.11      | 0.066    | 0.081     | mg/L  |
| Sulfide                            | EPA 9034  | NS                      | NS        | 0.057    | 0.058     | -         | ND        | ND        | ND       | ND        | mg/L  |
| Sulfate                            | EPA 300.0 | NS                      | NS        | 107      | 121       | -         | 230       | 240       | NS       | NS        | mg/L  |
| Dioxins / Furans<br>(2,3,7,8-TCDD) | 8290A     | NS                      | -         | -        | < 1.9     | < 2.0     | ND        | < 2.1     | NS       | NS        | pg/L  |
| PCBs (total)                       | 8082A     | NS                      | NS        | ND       | ND        | ND        | ND        | ND        | NS       | NS        | ug/L  |
| Herbicides (2,4-D)                 | 8151A     | NS                      | NS        | NS       | ND        | ND        | 0.78      | ND        | NS       | NS        | µg/L  |
| Pesticides                         | 8081B     | NS                      | -         | -        | NS        | ND        | ND        | ND        | NS       | NS        | µg/L  |
| VOCs                               | 8260D     | NS                      | ND        | -        | ND        | ND        | ND        | ND        | ND       | ND        | µg/L  |
| SVOCs                              | 8270D/E   | NS                      | -         | -        | NS        | ND        | ND        | ND        | NS       | NS        | µg/L  |
| DO                                 | EPA 360.1 | NS                      | NS        | 9.53     | 9.91      | -         | 6.5       | 5.0       | 8.5      | 6.5       | mg/L  |
| pH                                 | EPA 9040C | NS                      | NS        | 8.21     | 8.88      | -         | 7.4       | 8.5       | NS       | 7.1       |       |
| <b>Total Metals (ICP)</b>          | 6010D     |                         |           |          |           |           |           |           |          |           |       |
| Beryllium                          |           | < 0.010                 | 0.00048   | -        | < 0.0015  | 0.030     | ND        | ND        | NS       | NS        | mg/L  |
| Vanadium                           |           | 0.13                    | 0.019     | -        | 0.013     | 0.92      | 0.017     | 0.011     | NS       | NS        | mg/L  |
| Chromium                           |           | 0.136                   | 0.013     | -        | 0.0075    | 0.56      | 0.024     | 0.0055    | ND       | ND        | mg/L  |
| Cobalt                             |           | 0.026                   | 0.0033    | -        | 0.0019    | 0.4       | 0.0028    | 0.0020    | NS       | NS        | mg/L  |
| Nickel                             |           | 0.078                   | 0.011     | -        | 0.0063    | 0.38      | 0.0085    | ND        | NS       | NS        | mg/L  |
| Copper                             |           | 0.042                   | 0.007     | -        | 0.0047    | 0.23      | ND        | ND        | NS       | NS        | mg/L  |
| Zinc                               |           | < 0.100                 | 0.017     | -        | 0.0052    | 0.49      | 0.0048    | ND        | NS       | NS        | mg/L  |
| Arsenic                            |           | < 0.010                 | 0.0027    | -        | 0.0027    | < 0.16    | ND        | ND        | ND       | ND        | mg/L  |
| Selenium                           |           | < 0.010                 | < 0.005   | -        | < 0.025   | < 0.16    | ND        | ND        | ND       | ND        | mg/L  |
| Molybdenum                         |           | < 0.010                 | 0.0021    | -        | 0.0024    | < 0.02    | 0.0074    | 0.0061    | NS       | NS        | mg/L  |
| Silver                             |           | < 0.010                 | NS        | -        | < 0.008   | < 0.04    | ND        | ND        | ND       | ND        | mg/L  |
| Cadmium                            |           | < 0.010                 | NS        | -        | < 0.0035  | < 0.01    | ND        | ND        | ND       | ND        | mg/L  |
| Antimony                           |           | < 0.010                 | -         | -        | < 0.0011  | < 0.16    | ND        | ND        | NS       | ND        | mg/L  |
| Barium                             |           | 0.251                   | 0.04      | -        | 0.025     | 2.6       | 0.037     | 0.025     | 0.030    | 0.053     | mg/L  |
| Mercury                            | 7470A     | < 0.0002                | < 0.0002  | < 0.0002 | < 0.0002  | 0.085     | 0.14      | ND        | ND       | ND        | mg/L  |
| Thallium                           |           | < 0.010                 | NS        | -        | NS        | < 0.12    | ND        | ND        | NS       | NS        | mg/L  |
| Lead                               |           | < 0.010                 | 0.00096   | -        | 0.0042    | < 0.071   | ND        | ND        | ND       | ND        | mg/L  |

**Note:** Lab methods may vary. Data from parameters included in the baseline event not sampled in subsequent sampling events is not included.

**Abbreviations & Symbols:**

<: less than

COD: chemical oxygen demand

EPA: United States Environmental Protection Agency

ND: non-detect or below limits of detection

NTU: nephelometric turbidity unit

SVOC: semi-volatile organic compound

TOC: total organic carbon

TPH: total petroleum hydrocarbons – oil

VOC: volatile organic compound

µg/L: micrograms per liter

pg/L: picograms per liter

mg/L: milligrams per liter

NS: not sampled

PCB: polychlorinated biphenyl

TCDD: Tetrachlorodibenzo-P-dioxin

TDS: total dissolved solids

TSS: total suspended solids

LOQ: limit of quantitation

## 2) Nearby Waterways

Because there were no observable releases of leachate from the TDS site, there was no need to sample surface water in creeks or drainage ditches adjacent to the TDS site.

DOH continues nearshore water quality monitoring, with data available on the [DOH website](#). DOH continues to affirm that these data show that there are no ash/debris or fire-related chemicals present in the surface water at concentrations of human health concern and are consistent with background levels.

## 3) Air Quality

There are several air monitoring stations (a.k.a. 'PurpleAir Sensors' and 'DustTrak' monitors) in the vicinity of the TDS site, which are operated, maintained, and monitored by either DOH or a contractor to USACE. The air monitoring equipment provides data for both Particulate Matter (PM) 2.5 and 10, which correspond to the size of the particulate matter in micrometers (or microns), which represent one millionth of a meter. The measurement units for PM are expressed in micrograms/cubic meter, or  $\mu\text{g}/\text{m}^3$ , which is basically the weight of the total dust particles (in micrograms) in a defined area of space (one cubic meter). The smaller the particles (i.e., 2.5 microns), the deeper into the respiratory tract and lungs the particles can penetrate and either cause or exacerbate existing respiratory health problems. More information on the health effects of particulate matter pollution can be found [here](#).

The locations of the PurpleAir monitors operated by DOH are found in Figure 1. Monitoring data can be viewed at DOH's [Maui Data Portal](#).

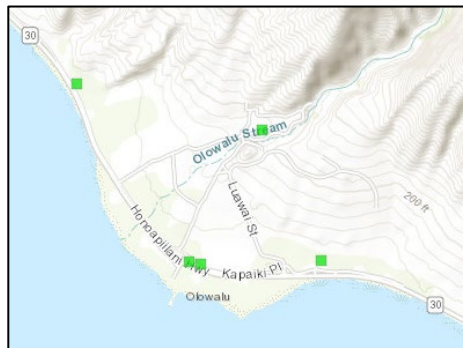


Figure 1. Locations of air monitors near Olowalu.

In addition, a contractor to USACE collected air monitoring samples following a DOH-approved plan at the TDS site. A summary of data collected at various locations around the TDS site (monitors were not always placed in the same location depending on wind conditions) are found in Table 2. Dust monitoring was paused at the end of April, as the TDS site working area was temporarily capped and ceased operations. Monitoring resumed in mid-June 2025 when excavation and hauling of ash/debris from the TDS site to the PDS at the Central Maui Landfill started. Monitoring ended on November 13, 2025, as ash/debris transfer operations were completed and both the ash/debris storage and leachate basin were removed.

| DATE             | Average PM10<br>(ug/m <sup>3</sup> ) | Average PM2.5<br>(ug/m <sup>3</sup> ) | Monitor<br>#s |
|------------------|--------------------------------------|---------------------------------------|---------------|
| 23-Jan to 20-Oct | see previous reports                 |                                       |               |
| 21-Oct           | 4                                    | 2.5                                   | 1,2           |
| 22-Oct           | 16.5                                 | 8.5                                   | 1,2           |
| 23-Oct           | 12.5                                 | 6                                     | 1,2           |
| 25-Oct           | 10.5                                 | 6                                     | 1,2           |
| 26-Oct           | 9.5                                  | 5                                     | 1,2           |
| 27-Oct           | 9                                    | 5                                     | 1,2           |
| 28-Oct           | 11.5                                 | 6                                     | 1,2           |
| 29-Oct           | 16.5                                 | 9                                     | 1,2           |
| 30-Oct           | 11.5                                 | 7.5                                   | 1,2           |
| 31-Oct           | 14.5                                 | 8.5                                   | 1,2           |
| 1-Nov            | 11                                   | 7.5                                   | 1,2           |
| 2-Nov            | 15                                   | 9                                     | 1,2           |
| 3-Nov            | 17                                   | 11                                    | 1,2           |
| 4-Nov            | 17                                   | 10.5                                  | 1,2           |
| 5-Nov            | 14.5                                 | 5.5                                   | 1,2           |
| 6-Nov            | 9.5                                  | 6                                     | 1,2           |
| 7-Nov            | 17.5                                 | 10.5                                  | 1,2           |
| 8-Nov            | 19.5                                 | 12.5                                  | 1,2           |
| 9-Nov            | 13                                   | 7                                     | 1,2           |
| 10-Nov           | 64                                   | 21.5                                  | 1,2           |
| 11-Nov           | 12.5                                 | 7.5                                   | 1,2           |
| 12-Nov           | 5.5                                  | 4                                     | 1,2           |
| 13-Nov           | 13                                   | 8                                     | 1,2           |

Table 2. Air monitoring data collected at the TDS site.

USACE established an 'Action Limit' of 35 for Particulate Matter (PM 2.5) and 150 for Particulate Matter (PM 10). Engineering and/or operating controls such as water sprays and limiting truck speed were implemented in the event of any exceedance of an Action Limit.

Finally, USACE conducted personnel air monitoring according to an Air Monitoring and Sampling Plan (AMSP) using personal air cartridges directly on workers. The results were evaluated against criteria based on the Occupational Safety and Health Administration (OSHA) Permissible Exposure Levels (PELs) and/or the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs). All sampling results collected from excavator operators and laborers did not find any exceedances of these health-based criteria, so this activity was largely discontinued in late June 2024.

#### 4) Groundwater

To comply with Bill 120, USACE installed temporary groundwater monitoring wells (MW) adjacent to the TDS site. An upgradient (uphill) MW and downgradient (downhill) MW were installed at the TDS site in June – July 2024 as shown in Figures 2 & 3. A well completion report was submitted to the County by USACE in August 2024 with specific construction details. These wells will be decommissioned in late December 2025.

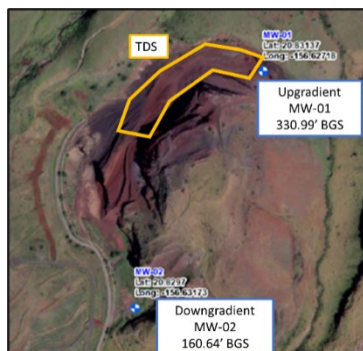


Figure 2. Locations of groundwater monitoring wells.



Figure 3. Groundwater monitoring well MW-02.

Samples were collected and analyzed quarterly (every 3 months, see Table 3), which is a typical frequency for waste storage and disposal facilities. Results from the last quarterly groundwater sampling event in mid-November 2025 are pending and will be shared in the next update.

Table 3. Quarterly groundwater monitoring events.

| Sampling Event | Date          |
|----------------|---------------|
| 1 (initial)    | 7/7/2024      |
| 2              | 10/8/2024*    |
| 3              | 2/8/2025      |
| 4              | 5/5/2025      |
| 5              | 8/5/2025      |
| 6 (final)      | November 2025 |

\*A re-sampling for this event was held in 12/2024.

The first samples taken on July 7, 2024, were considered 'baseline' samples, since MW-01 and MW-02 were newly installed, and there were no previous sampling data from them to compare. The analysis includes the analytes and parameters found in Table 4, which includes contaminants or indicators of contaminants present in the TDS leachate in 2025 (see Section 1, Table 1).

Table 4. Analytes and parameters for groundwater samples (2025).

| Major cations & anions  | 7/7/2024<br>MW-01<br>Q3 2024<br>(Baseline) | 2/8/2025<br>MW-01<br>Q1 2025 | 5/5/2025<br>MW-01<br>Q2 2025 | 8/5/2025<br>MW-01<br>Q3 2025 | 7/7/2024 MW-02<br>Q3 2024<br>(Baseline) | 2/8/2025<br>MW-02<br>Q1 2025 | 5/5/2025<br>MW-02<br>Q2 2025 | 8/5/2025<br>MW-02<br>Q3 2025 | Units |
|-------------------------|--|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|-------|
| Magnesium               | 12000                                      | 12000                        | 11000                        | 11000                        | 17000                                   | 16000                        | 15000                        | 15000                        | ug/L  |
| Sodium                  | 78000                                      | 71000                        | 64000                        | 67000                        | 130000                                  | 120000                       | 110000                       | 120000                       | ug/L  |
| Calcium                 | 15000                                      | 14000                        | 13000                        | 13000                        | 21000                                   | 21000                        | 21000                        | 21000                        | ug/L  |
| Potassium               | 5400                                       | 5100                         | 4600                         | 4700                         | 7600                                    | 7400                         | 7100                         | 7100                         | ug/L  |
| Chloride                | 100  | 110                          | 110                          | 110                          | 190                                     | 200                          | 170                          | 210                          | mg/L  |
| Carbonate               | ND   | ND                           | 6.0                          | 6.0                          | ND                                      | 6.0                          | 6.0                          | 6.0                          | mg/L  |
| Sulfate                 | 19   | 16                           | 16                           | 17                           | 25                                      | 26                           | 27                           | 29                           | mg/L  |
| <b>Major Indicators</b> |  |                              |                              |                              |   |                              |                              |                              |       |
| TDS                     | 210  | 280                          | 290                          | 300                          | 350                                     | 480                          | 450                          | 460                          | mg/L  |
| TOC                     | 4.6  | 1.9                          | 1.5                          | 0.90                         | 0.58                                    | 1.4                          | 1.1                          | 0.97                         | mg/L  |
| Total Alkalinity        | 69   | 60                           | 60                           | 56                           | 67                                      | 61                           | 63                           | 61                           | mg/L  |
| Ammonia (as Nitrogen)   | 0.09                                       | 0.090                        | 0.09                         | 0.086                        | 0.05                                    | 0.090                        | 0.09                         | 0.076                        | mg/L  |
| Iron                    | 140  | 65                           | 170                          | 190                          | 380                                     | 660                          | 2700                         | 1100                         | ug/L  |
| <b>Field Parameters</b> |  |                              |                              |                              |   |                              |                              |                              |       |
| pH                      | 7.2  | 7.3                          | 7.4                          | 7.6                          | 7.5                                     | 7.6                          | 7.5                          | 7.7                          | S.U.  |
| Turbidity               | 2.5  | 2.3                          | 12                           | 7.2                          | 18                                      | 16                           | 60                           | 95                           | NTU   |
| <b>Metals</b>           |  |                              |                              |                              |   |                              |                              |                              |       |
| Arsenic                 | ND   | 1.7                          | 0.74                         | 1.7                          | ND                                      | 1.7                          | 1.7                          | 1.7                          | ug/L  |
| Lead                    | ND   | 0.17                         | 0.5                          | 0.24                         | ND                                      | 3.2                          | 0.5                          | 0.25                         | ug/L  |
| Antimony                | ND   | 0.5                          | 0.5                          | 0.5                          | ND                                      | 0.5                          | 0.5                          | 0.5                          | ug/L  |
| Cobalt                  | 0.84                                       | 0.54                         | 0.69                         | 0.23                         | 0.19                                    | 0.4                          | 0.17                         | 0.4                          | ug/L  |
| Copper                  | 2.5  | 0.67                         | 0.93                         | 0.86                         | 0.72                                    | 1.2                          | 1.1                          | 0.9                          | ug/L  |

**Abbreviations & Symbols:**

mg/L: milligrams per liter

MW: monitoring well

ND: non-detect or below detection limit

NTU: nephelometric turbidity unit

TDS: total dissolved solids

TOC: total organic carbon

ug/L: micrograms per liter

The baseline sampling data from MW-01 and MW-02 will be used to evaluate any changes or impacts to groundwater from the TDS site in subsequent quarterly sampling events. All groundwater data is evaluated by the County of Maui and DOH to determine whether there are any impacts to groundwater from the TDS site, and if so, what action(s) may be necessary after closure and removal of the TDS site to address them. Due to the thick liner (80 mil, or 0.08 inches) underlying all ash and debris in the TDS and the leachate basin to prevent infiltration, along with the distance between these bottom liners and the uppermost groundwater level (between 150 – 350 feet), it is unlikely that the TDS site will have any impact on groundwater.

## 5) Background Soils

The TDS site was divided into five decision units—or set areas—from which soil samples were collected and analyzed for target contaminants to define pre-existing soil conditions. Analytical results from this assessment, conducted on January 28-29, 2024, are summarized in Table 5.

Once the protective liner was removed in mid-November 2025, post-construction samples were taken in similar locations to determine if the TDS site operations had any impact on the underlying soils. The pre-construction and post-construction data will be compared and evaluated by the County of Maui and Hawaii DOH to determine whether any action (i.e., further excavation, cleanup) is necessary prior to final grading of the TDS site. Results from the post-construction sampling event in mid-November 2025 are pending and will be shared in the next update.

Table 5. Analytical results from background soil sampling at TDS site.

| Constituent (mg/kg)     | DU-1 (mg/kg) | DU-2 (mg/kg) | DU-3 (mg/kg) | DU-4 (mg/kg) | DU-5 (mg/kg) |
|-------------------------|--------------|--------------|--------------|--------------|--------------|
| Antimony                | 0.18         | 0.19         | 0.19         | 0.19         | 0.19         |
| Arsenic                 | 1.4          | 1.5          | 0.73         | 0.584        | 0.94         |
| Barium                  | 15           | 15           | 32           | 40           | 39           |
| Beryllium               | 0.56         | 0.66         | 0.6          | 0.75         | 0.66         |
| Cadmium                 | 0.093        | 0.13         | 0.094        | 0.099        | 0.1          |
| Chromium                | 0.81         | 1            | 0.84         | 0.53         | 7            |
| Cobalt                  | 1.1          | 1.4          | 1.2          | 1.2          | 3            |
| Copper                  | 1.6          | 4.9          | 1.6          | 0.86         | 4.9          |
| Lead                    | 2.1          | 1            | 1.1          | 0.97         | 2.2          |
| Molybdenum              | 0.51         | 0.54         | 0.5          | 0.67         | 0.9          |
| Nickel                  | 0.79         | 1            | 0.92         | 0.53         | 9            |
| Selenium                | 4.9          | 5.4          | 3.6          | 3.2          | 3.7          |
| Silver                  | 0.046        | 0.021        | 0.047        | 0.048        | 0.047        |
| Thallium                | 0.14         | 0.15         | 0.14         | 0.14         | 0.14         |
| Vanadium                | 1.2          | 1.4          | 1.2          | 1.0          | 8.5          |
| Zinc                    | 48           | 51           | 44           | 49           | 52           |
| Mercury                 | 0.010        | 0.011        | 0.0096       | 0.010        | 0.011        |
| Oil Range Organics      | 18           | 26           | 30           | 29           | 30           |
| Gasoline Range Organics | 2.9          | 1.1          | 1.6          | 1.7          | 1.5          |
| Diesel Range Organics   | 32           | 33           | 28           | 30           | 16           |

**Abbreviations:** DU: decision unit mg/kg: milligrams per kilogram