Formerly Utilized Sites Remedial Action Program—Guterl Site

Site Description

The Guterl Specialty Steel Corporation Site (Guterl Site) is located in Lockport, Niagara County, New York, approximately 20 miles northeast of Buffalo, New York. The U.S. Army Corps of Engineers is investigating the site under the Formerly Utilized Sites Remedial Action Program (FUSRAP). This program was established in 1974 to identify, investigate, and if necessary, clean up or control sites throughout the United States that were contaminated as a result of the Nation's early atomic weapons and energy programs.

The 70-acre Guterl Site (Figure 1) comprises three areas:

- The 52-acre Allegheny Technologies Incorporated (ATI) (formerly Allegheny Ludlum Corporation) property. ATI Specialty Materials operates a specialty steel manufacturing facility in the southwest portion of this property.

- The 9-acre landfill area owned by ATI. This area is in the northwest corner of the site. The landfill, which ceased operations as a waste disposal area in 1981, is a Class 2 New York State Department of Environmental Conservation Inactive Hazardous Waste Disposal Site (Site No. 932032).

- The 9-acre excised area owned by Guterl Specialty Steel. This area includes nine buildings located in the southeast corner of the site that had been used during Atomic Energy Commission (AEC) operations to roll uranium metal. These buildings are abandoned, and a chain link security fence surrounds them.

Land use near the Guterl Site is mixed. It consists of private residences, light industries, and a former railroad right-of-way. The Erie Canal is south-southeast of the site.
Purpose

The purpose of groundwater monitoring at the Guterl Site is to determine the potential for movement of FUSRAP-related radiological contaminants associated with historical AEC activities. Between 1948 and 1956, the AEC’s New York Operations Office managed contracts there with Simonds Saw and Steel, a previous owner of the property, to roll uranium steel billets into rods.

The Corps of Engineers samples a subset of the on-site groundwater wells annually to (1) monitor conditions at the site, (2) develop baseline data for monitoring groundwater in the event that an alternative is chosen that includes natural attenuation, and (3) develop and evaluate alternatives to address unacceptable risks. The Corps of Engineers posts annual environmental monitoring data reports for the Guterl Site under the "Environmental Monitoring" section of the project website (see page 3 footer for website).

Scope

The Corps of Engineers selects groundwater wells at the Guterl Site for sampling based on previously collected data and the potential for transport of FUSRAP-related constituents. The Corps sampled 51 groundwater wells in 2015; normally a subset of these wells (between 20 and 24) is sampled annually. This larger array of groundwater wells will be sampled every three to five years to verify the overall conditions of FUSRAP-related constituents in groundwater underlying the Guterl Site. Figure 1 shows the existing wells at the site and highlights the 24 shallow and deep groundwater wells sampled in 2016. A contracted laboratory analyzed the samples for dissolved uranium, the most mobile FUSRAP-related constituent at the Guterl Site.

The Corps of Engineers typically samples groundwater seeps discharging from the northern wall of the Erie Canal and surface water in the Erie Canal. However, due to regional drought conditions in 2016, there were no visible groundwater seeps to sample. Without this groundwater discharge to the canal, the Corps determined that Erie Canal water would not be measurably influenced that year, so surface water samples were not collected in 2016. Historical seep and surface water sample results, collected between 2011 and 2015, can be found in the 2015 Environmental Monitoring Report.

Results and Interpretation

Groundwater Results

Table 1 presents the unfiltered and filtered analytical results for isotopic and total uranium in groundwater samples collected at the site between 2007 and 2016. The groundwater sample results are consistent with historical (i.e. 2007 and 2009–2015) data as shown in Table 1. Uranium in shallow groundwater continues to extend in the direction of groundwater flow, from the northwest to the southeast towards the Erie Canal (Figure 2). Uranium in deep groundwater is not as extensive as it is in the shallow groundwater plume; however, it extends in the same northwest to southeast
direction (Figure 3). Figure 4 presents filtered total uranium results in groundwater wells sampled in 2016, arranged in the direction of groundwater flow across the site. Groundwater monitoring well MW-605D is at the center of the Guterl Site; it continues to exhibit the highest total uranium concentration (271 μg/L, unfiltered) in groundwater.

For the 2015 sampling event, the results for the paired shallow well MW-602D and deep well MW-702DD were an anomaly. The result for each well contradicted previous concentration levels. This led the Corps to review lab reports and sample collection logs to determine if there had been an error in the sample collection and/or laboratory processing analysis, yet no error was apparent. The 2016 sampling event supports that 2015 was an anomaly since the 2016 sampling results from these wells were consistent with historical results before 2015.

Conclusions

Uranium concentrations in groundwater at the Guterl Site are consistent overall with historical results. There is a seasonal fluctuation in the size of the groundwater plume. Depending on what time of the year the sampling occurs, the uranium concentration results vary due to the amount of groundwater present within the site. Groundwater under the site is currently not a utilized source of potable (i.e. drinking) water; therefore, there is no risk to human health above acceptable levels.

Next Steps

The U.S. Army Corps of Engineers will continue to sample groundwater, seeps, and surface water to monitor conditions and support the development of the feasibility study and proposed plan for the Guterl Site. The next round of groundwater, seeps, and surface water sampling will occur in the fall of 2017.
FIGURE 1

2016 GROUNDWATER SAMPLING LOCATIONS

GUTERL SPECIALTY STEEL CORPORATION
LOCKPORT, NEW YORK

Legend
Deep Monitoring Well
Shallow Monitoring Well
Monitoring Well Sampled in 2016
Guterl Landfill Boundary
ATI Specialty Materials
Guterl Excised Area Boundary

0 225 450 900
Feet

Document Name: 170201_2016WGSamples.mxd
Drawn By: H5TDESPM
Date Saved: 23 Feb 2017
Time Saved: 11:56:24 AM
TOTAL URANIUM IN SHALLOW GROUNDWATER
(SEPTEMBER 2016)

U (F) - Total Uranium Filtered
U (unF) - Total Uranium Unfiltered

All concentrations reported in µg/l - Micrograms per Liter.

Legend:
- Deep Monitoring Well
- Shallow Monitoring Well
- Extent of Groundwater Above 10 µg/l
- Extent of Groundwater Above 30 µg/l
- Extent of Groundwater Above 90 µg/l

Notes:
- U (F) - Total Uranium Filtered
- U (unF) - Total Uranium Unfiltered
- All concentrations reported in µg/l - Micrograms per Liter.

GUTERL SPECIALTY STEEL CORPORATION
LOCKPORT, NEW YORK

FIGURE 2
**TOTAL URANIUM IN DEEP GROUNDWATER**

(SEPTMBER 2016)

GUTERL SPECIALTY STEEL CORPORATION
LOCKPORT, NEW YORK

FIGURE 3

**Legend**
- Deep Monitoring Well
- Shallow Monitoring Well
- Site Boundary

**Notes:**
- U (F) - Total Uranium Filtered
- U (unF) - Total Uranium Unfiltered

All concentrations reported in μg/L - Micrograms per Liter.

**U (unF), 84.7**

**U (F), 70.2**

**U (unF), 60**

**U (F), 2.52**

**U (unF), 2.7**

**U (F), 32.1**

**U (unF), 84.7**

**μ**

**g/l.**

**μ**
Figure 4: Total Uranium Concentrations in Filtered Groundwater Samples (September 2016)

Sampled Locations of Shallow/Deep Groundwater Wells

Direction of Groundwater Flow

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MW-XXXDD = Deep Well Samples
□ = Nested Shallow/Deep Well Pairs
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#### Groundwater Results 2007–2016

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Notes:
- Analysis for uranium, Method ASTM D5174 Modified.
- Analysis for isotopic uranium, Method EML U-02 Modified.
- The shaded rows identify 2016 data.
- The 2016 sampling event supports that an anomaly did occur in 2015 for shallow well MW-602D and deep well MW-702DD. The 2016 data is consistent with historical data before 2015.

pCi/L: Picocuries per liter
μg/L: micrograms per liter
U: Nondetect (Results are below the Minimum Detectable Activity/Minimum Detectable Concentration.)
J: Estimated