United States Environmental Protection Agency
Region III
POLLUTION REPORT

Date: Monday, August 6, 2018
From: Ann DiDonato

Subject: Precision National Plating Site
198 Ackerly Road, Clarks Summit, PA
Latitude: 41.5105000
Longitude: -75.7155000

POLREP No.:	76	**Site #:**	
Reporting Period:	7/30/18 - 8/5/18	**D.O. #:**	
Start Date:		**Response Authority:**	CERCLA
Mob Date:		**Response Type:**	Non-Time-Critical
Demob Date:		**NPL Status:**	Non NPL
Completion Date:		**Incident Category:**	Removal Action
CERCLIS ID #:	PAD053676631	**Contract #**	
RCRIS ID #:			

Site Description

The Precision National Plating Site is located at 198 Ackerly Road, Clarks Summit, Pennsylvania, approximately 10 miles north of Scranton, Pennsylvania. The property measures 46 acres, approximately five acres of which were used for site operations and the remainder of which are undeveloped and largely wooded. A 45,000 square foot operations building that was demolished in 2000 was the principal structure on the site. Portions of the concrete slab floor remain and are utilized as a staging area for materials during cleanup.

The site began operation as a chromium electroplating facility for locomotive crankshafts in 1956. This operation continued when Precision bought the facility in 1971. Precision operated an industrial component reconditioning facility on site from 1971 until 1999. Site operations ceased in April 1999.

In September of 2005, EPA approved a Remedial Action Plan, submitted on behalf of Precision National Plating by the Retec Group. The Plan details procedures for use of calcium polysulfide to reduce the hexavalent chromium in the soils and groundwater to trivalent chromium, a less toxic form of chromium, which will precipitate and remain in the soil/bedrock matrix.

In July 2006, Precision injected calcium polysulfide into source areas at the site. The goal of the treatment was to reduce hexavalent chromium levels in soil to below 60 mg/Kg, and hexavalent chromium levels in Ackerly Creek to below 11 ug/L.

In March 2007, Precision began excavation of the basement of the former facility. The purpose of the removal was to mitigate impacts by potentially contaminated soils beneath the basement. Any visually contaminated soil and concrete encountered during the excavation was shipped offsite to an appropriate disposal facility.

Additional site investigation activities were performed in the Fall of 2007 and February/March 2008. The soil boring, rock coring and groundwater sampling activities completed in October 2007 and March 2008 confirmed that residual source contamination remains at the Site in the shallow weathered and competent bedrock (18 - 30 feet below the ground surface).

In August 2008, Precision began using calcium polysulfide in-situ chemical injections to treat these residual areas of contamination in the shallow bedrock. Hexavalent chromium levels dropped in Ackerly Creek due to chemical injection treatments in July 2006, the basement excavation in March 2007, and subsequent injection activities.

Precision and EPA signed an Administrative Settlement Agreement and Order on Consent on May 3, 2012. On July 30, 2012, Precision's contractor, Arcadis U.S. Inc, submitted a new Response Action Plan, detailing ongoing activities. Multiple rounds of calcium polysulfide injections were conducted between Fall 2012 and Fall 2015.

Between 2016 and 2018, semi annual and quarterly sampling events occurred to document hexavalent and total chromium levels throughout the site in absence of ongoing injection activities. Injections appear to have been effective at the former site footprint and nearby areas. Some hexavalent chromium continues to persist in isolated areas and further downgradient towards Ackerly Creek. 2018 injection activities will focus on these remaining areas of hexavalent chromium.

Current Activities

Injections began on July 30th, 2018, focusing on areas between the Site and the Trolley Tracks. A total of 1,002 gallons of 1% calcium polysulfide were injected into four wells (OMW-23, MW-12I, AGM-3S, and AGM-3I) during this reporting period.

24-hour air monitoring stations were installed at locations near Ackerly Creek and in the lagoon area. This supplemented handheld air monitors operated by site personnel during working hours. Air monitors measure hydrogen sulfide concentration, a byproduct of the injection chemical, with a lower detection limit of approximately 3 parts per billion (ppb). The hydrogen sulfide site specific action level for nuisance odors is 30 ppb. No hydrogen sulfide was detected on any of the air monitors during this reporting period.

Water quality monitors were used to collect water quality readings and measure influence of injection chemicals in wells between the injection area and Ackerly Creek.

Electrical supply to the lagoon area was damaged during recent storms. A new electrical pole was previously installed, and equipment had been transferred to the new pole. The new pole and associated power drop was inspected, and Precision is currently awaiting power to be turned back on by PPL Electric Utilities.

Planned Removal Actions

Injections are planned to continue through Fall 2018. Injections will continue near the Trolley Track, and then move on to injecting closer to Ackerly Creek. During injections, public walking trails will remain accessible, however site personnel will be present at all times when activities are conducted in publicly accessible areas.

Surface water and ground water will be monitored for influence from injection activities. Monitoring wells are positioned between all injection areas and Ackerly Creek in order to monitor for influence of calcium polysulfide prior to chemical impacting the creek.

The lagoon treatment system and seep shed treatment system will continue operation during injection activities. Additional monitoring of treatment systems will occur to ensure that calcium polysulfide is not reaching the treatment systems. If calcium polysulfide is found to be impacting the treatment system, the system may be shut off until injections are completed in that area.

Two wells will be installed in the vicinity of the Seep Shed to further delineate ground water concentrations in the area.

Next Steps

Injections are estimated to continue into Fall 2018. Following the completion of injection activities, a post-injection sampling event will occur, tentatively scheduled for October 2018.