

June 14, 2019

Mr. Conor Neal
Hydrogeologist
Land & Chemicals Division
US Environmental Protection Agency, Mail Code LU-9J
77 West Jackson Blvd
Chicago, IL 60604-3590

RE: Bi-Weekly Summary Report for Pump Down Program
Tyco Fire Products LP Site
Marinette, WI

Dear Mr. Neal:

The information provided herein is a summary of activities conducted at the Tyco Fire Products LP (Tyco) site associated with the Pump Down Program (PDP) for the former Salt Vault and 8th Street Slip areas. The PDP is required as part of the Administrative Order on Consent between Tyco and U.S. Environmental Protection Agency (USEPA). This summary report covers the period from May 25, 2019 through June 7, 2019.

Summary of Work during Reporting Period

Work conducted during the reporting period included:

- Manual water level readings at the designated monitoring points and extraction wells were collected at least weekly during the reporting period. The average water level, based on the most recent water level measurements (June 6, 2019) during the reporting period, in the former Salt Vault was 579.44 feet above mean seal level (ft. AMSL), or 1.54 feet above the target level. The average water level in the former 8th Street Slip was 575.67 ft. AMSL, or 2.23 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- During pumping operations, total groundwater recovery rates in the former Salt Vault area averaged 3.37 gallons per minute (gpm) from the four extraction wells during the reporting period and 6.18 gpm from the two extraction wells in the former 8th Street Slip. Shutdown of the extraction wells within the Salt Vault area

occurred over the weekends of May 31 / June 2 and June 7/9. Shutdown of the extraction wells within the 8th Street Slip also occurred over the weekends of May 31 / June 2 and June 7/9 and intermittently during the reporting period. The shutdowns in each area over the weekend periods are due to restrictions on water disposal at Waste Management’s Vickery, Ohio facility; planned intermittent shutdowns in the 8th Street Slip area are conducted primarily because groundwater levels in the area remain below the target level. With the exception of the planned shutdowns, the extraction wells in each area were reported to have operated continuously during the reporting period without any mechanical issues.

- Off-site transportation of recovered groundwater was conducted during the reporting period. Off-site disposal operations are limited to five days per week with generally 2 trucks (approximately 10,000 gallons) per day necessary to maintain tank levels allowing for continuous pumping from the extraction wells.

A summary of pumping and disposal operations for the 2019 season is provided below.

Summary of Pump Down Operations (June 7, 2019)

	Gallons Pumped	Gallons Treated at GWTS ¹	Gallons Transported for Off Site Disposal
This Period	~83,699	~0	~79,399
2019 Operations to Date	~282,485	~0	~278,185 ²

All quantities are estimated

Issues Encountered During Reporting Period

No operational issues occurred during the reporting period.

Issues To Be Resolved During Next Reporting Period

No issues that require resolution have been identified at this time.

Anticipated Work During Next Reporting Period

¹ GWTS – Groundwater Treatment System

² Volume includes stormwater recovered in secondary containment structure

Manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on at least a weekly basis. Extracted groundwater will continue to be transported to Vickery for disposal.

If you have any questions regarding this report, please contact me at 414-524-3344 or jeffrey.howard.danko@jci.com.

Sincerely,

Johnson Controls



Jeffrey Danko

EHS Manager – Environmental Remediation

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – WDNR
Trevor Moen - WDNR
Joseph Janeczek – Johnson Controls
Heather Ziegelbauer – Jacobs
Kirk Kapfhammer – Endpoint Solutions
Ryan Suennen – Tyco Fire Products

Table 1. 2019 Pump Down Program Groundwater Elevation Monitoring
Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation 577.9

Table with 30 columns for dates (January 16, 2019 to June 6, 2019) and multiple rows for well IDs (e.g., MW001M, MW001S, MW002M-R) and monitoring points (e.g., SG4). Columns include DTW and Corrected Groundwater Elevation (for equivalent fresh water).

Notes: Measurements were collected from top of casing (TOC). All depth measurements are in feet. Elevations are reported in feet above mean sea level (AMSL) relative to the North American Vertical Datum 1988 (NAVD88).

Shaded = Well part of evaluation during Drawdown and Interim Phases

Bold = Well part of Target Elevation calculation

- = Information not applicable or not collected

Area Definitions - SV - Salt Vault, 8SS - 8th Street Slip

*Wells identified for target elevation calculation are for during the drawdown and interim phases. Only wells outside the steepest portion of the cone of depression will be included in the calculation of the average elevations. The average elevation of all suitable measured wells will be considered the calculated elevation to compare against the target elevation. The number of post-drawdown phase wells used for this calculation may be reduced and will be determined based on results observed during the drawdown phase.

ID = identification; DTW = depth to water

NM = Not Measured; MW = Monitoring Well