

From: Jeffrey Howard Danko <jeffrey.howard.danko@jci.com>
Sent: Thursday, May 28, 2020 12:36 PM
To: Christopher Black (black.christopher@epa.gov)
Cc: Rick Bethel; Ryan Suennen; Carey, Angela J - DNR; Moen, Trevor J - DNR; Kirk Kapfhammer; Ziegelbauer, Heather/MKE
Subject: Bi-Weekly Report - PDP - Stanton Street Facility, Tyco Fire Products LP, Marinette, WI
Attachments: Tyco PDP - WeeklySummaryReport_compositefinal_thru 5-22-20.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Christopher:

Attached is a brief status report on the operation of the Pump Down Program at the referenced site. The report covers the period from May 9 and May 22, 2020. Please let me know if you have questions.

Jeffrey Danko
EHS Manager – Environmental Remediation
Johnson Controls
5757 N. Green Bay Ave
Milwaukee, WI 53209
+1 262 349 2528 cell
jeffrey.howard.danko@jci.com
[@johnsoncontrols](https://twitter.com/johnsoncontrols)
www.johnsoncontrols.com

The power behind **your mission**

Johnson Controls
USA

THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED AND CONFIDENTIAL. The information contained in, or attached to, this message is intended solely for the use of the specific person(s) named above. If you are not the intended recipient then you have received this communication in error and are prohibited from review, retransmission, taking any action in reliance upon, sharing the content of, disseminating or copying this message and any of the attachments in any way. If you have received this communication in error, please contact the sender immediately and promptly delete this message from all types of media and devices. Thank you.

May 28, 2020

Mr. Christopher Black
U.S. Environmental Protection Agency, Region 5
Land, Chemicals and Redevelopment Division
77 West Jackson Blvd, LR-16J
Chicago, IL 60604-3590

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

Dear Mr. Black:

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 the U.S. Environmental Protection Agency (USEPA). This summary report covers the period from May 9, 2020 through May 22, 2020.

Summary of Work during Reporting Period

Work conducted during the reporting period included:

- Collection of manual water level readings at the designated monitoring points and extraction wells on May 13, 2020 and May 20, 2020. The average water level, based on the most recent water level measurements (May 20, 2020) during the reporting period, in the former Salt Vault was 581.56 feet above mean seal level (ft. AMSL), or 3.66 feet above the target level. The average water level in the former 8th Street Slip was 577.44 ft. AMSL, or 0.46 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 and 8th Street Slip areas averaged 7.2 gallons per minute (gpm) from the six extraction wells which have been operating continuously during the reporting period with the exception of short-term cessation during the weekends until the holding tanks can be emptied.

- Off-site transportation of recovered groundwater was conducted during the reporting period Monday through Friday of each week.

A summary of pumping and disposal operations for the 2020 season is provided below.

Summary of Pump Down Operations (May 22, 2020)

| | Gallons Pumped | Gallons Treated at GWTS ¹ | Gallons Transported for Off Site Disposal |
|-------------------------|----------------|--------------------------------------|---|
| This Period | ~86,200 | ~0 | ~85,200 |
| 2020 Operations to Date | ~361,800 | ~0 | ~360,800 |

All quantities are estimated

Issues Encountered During Reporting Period

During pumping operations, on May 16, 2020, an internal pump seal failure associated with the EW-11 well pump caused an automatic system shut down. No release to the environment occurred in conjunction with this seal failure and full operation of the extraction system resumed on May 18, 2020 with the exception that the EW-11 well pump was inactive pending receipt of replacement pump parts. Additionally, policies and procedures are being evaluated on an ongoing basis to address the COVID-19 outbreak. Otherwise, no issues were encountered during the reporting period that require resolution

Issues To Be Resolved During Next Reporting Period

Repairs will be completed to the EW-11 well pump upon receipt of necessary parts.

Anticipated Work During Next Reporting Period

The PDP extraction system consisting of the wells within the Salt Vault and 8th Street Slip will be operated on a continuous basis and repairs will be made to the EW-11 well pump. Finally, manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on a weekly basis.

¹ GWTS – Groundwater Treatment System

If you have any questions regarding this report, please contact me at 262-349-2528 or jeffrey.howard.danko@jci.com.

Sincerely,



Jeffrey Danko
EHS Manager – Environmental Remediation

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

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

Table 1. 2020 Pump Down Program Groundwater Elevation Monitoring
 Tyco Fire Products LP, Marinette, Wisconsin

| | |
|------------------|-------|
| Target Elevation | 577.9 |
|------------------|-------|

| Well ID | January 8, 2020 | | January 15, 2020 | | January 31, 2020 | | February 5, 2020 | | February 12, 2020 | | February 19, 2020 | | February 28, 2020 | | March 4, 2020 | | March 11, 2020 | | March 17, 2020 | | April 1, 2020 | | April 8, 2020 | | April 15, 2020 | | April 22, 2020 | | April 29, 2020 | | May 6, 2020 | | May 13, 2020 | | May 20, 2020 | | | |
|----------|-----------------|--|------------------|--|------------------|--|------------------|--|-------------------|--|-------------------|--|-------------------|--|---------------|--|----------------|--|----------------|--|---------------|--|---------------|--|----------------|--|----------------|--|----------------|--|-------------|--|--------------|--|--------------|--|----|---|
| | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | DTW | Corrected Groundwater Elevation (for equivalent fresh water) | | |
| MW001M | 5.02 | 582.15 | 7.81 | 579.36 | 8.33 | 578.84 | 8.27 | 579.90 | 8.32 | 578.85 | 8.92 | 578.25 | 8.72 | 578.45 | 8.68 | 578.49 | 8.42 | 578.75 | 8.30 | 578.87 | 7.35 | 579.82 | 6.90 | 580.27 | 7.30 | 579.87 | 7.62 | 579.55 | 7.47 | 579.70 | 7.56 | 579.61 | 7.76 | 579.41 | 6.80 | 580.37 | | |
| MW001S | 5.06 | 582.20 | NM | - | NM | - | 7.21 | 580.05 | 7.34 | 579.92 | 7.94 | 579.32 | 7.79 | 579.47 | 7.63 | 579.63 | 7.55 | 579.71 | 7.43 | 579.83 | 6.26 | 581.00 | 5.89 | 581.37 | 6.41 | 580.85 | 6.70 | 580.56 | 6.45 | 580.81 | 6.61 | 580.65 | 6.89 | 580.37 | 5.76 | 581.50 | | |
| MW002M-R | 8.26 | 582.32 | 9.93 | 580.63 | 10.53 | 580.03 | 10.51 | 580.05 | 10.52 | 580.04 | 11.14 | 579.41 | 10.97 | 579.58 | 10.85 | 579.70 | 10.69 | 579.87 | 10.64 | 579.92 | 9.50 | 581.07 | 9.11 | 581.46 | 9.62 | 580.95 | 9.24 | 581.33 | 9.60 | 580.97 | 9.79 | 580.78 | 9.98 | 580.58 | 8.92 | 581.66 | | |
| MW002S-R | 8.11 | 582.21 | 9.78 | 580.54 | 10.08 | 580.24 | 10.30 | 580.02 | 10.04 | 580.28 | 10.98 | 579.34 | 10.81 | 579.51 | 10.79 | 579.53 | 10.56 | 579.76 | 10.52 | 579.80 | 9.31 | 581.01 | 8.95 | 581.37 | 9.51 | 580.81 | 9.05 | 581.27 | 9.30 | 581.02 | 9.65 | 580.67 | 9.93 | 580.39 | 8.91 | 581.41 | | |
| MW031M | 5.54 | 582.52 | 7.29 | 580.76 | 7.91 | 580.13 | 7.95 | 580.09 | 7.99 | 580.05 | 8.46 | 579.58 | 8.38 | 579.66 | 8.32 | 579.72 | 8.16 | 579.88 | 7.96 | 580.08 | 6.96 | 581.09 | 6.52 | 581.53 | 7.04 | 581.01 | 7.30 | 580.75 | 7.00 | 581.05 | 7.15 | 580.90 | 7.39 | 580.66 | 6.31 | 581.74 | | |
| MW031S | 6.37 | 582.53 | 8.40 | 580.50 | 8.85 | 580.05 | 8.84 | 580.06 | 8.95 | 579.95 | 9.46 | 579.44 | 9.28 | 579.62 | 8.91 | 579.99 | 9.04 | 579.86 | 8.71 | 580.19 | 7.83 | 581.07 | 7.34 | 581.56 | 7.88 | 581.02 | 8.15 | 580.75 | 7.90 | 581.00 | 7.81 | 581.09 | 8.08 | 580.82 | 6.69 | 582.21 | | |
| MW113S | 8.03 | 582.26 | 9.76 | 580.53 | 10.31 | 579.98 | 10.33 | 579.96 | 10.34 | 579.95 | 10.97 | 579.32 | 10.44 | 579.85 | 10.34 | 579.95 | 10.52 | 579.77 | 10.41 | 579.88 | 9.27 | 581.02 | 9.90 | 580.39 | 9.41 | 580.88 | 9.22 | 581.07 | 9.45 | 580.84 | 9.60 | 580.69 | 9.81 | 580.48 | 8.72 | 581.57 | | |
| MW113M | 7.57 | 582.73 | 9.79 | 580.51 | 10.07 | 580.23 | 10.07 | 580.23 | 10.09 | 580.21 | 10.51 | 579.79 | 10.77 | 579.53 | 10.48 | 579.82 | 10.11 | 580.19 | 9.98 | 580.32 | 8.95 | 581.35 | 9.12 | 581.18 | 9.41 | 580.89 | 9.69 | 580.61 | 9.47 | 580.83 | 9.71 | 580.59 | 9.92 | 580.38 | 7.72 | 582.58 | | |
| MW115P | 6.35 | 582.74 | 7.09 | 582.00 | 8.12 | 580.97 | 8.16 | 580.93 | 8.34 | 580.75 | 9.15 | 579.94 | 8.75 | 580.34 | 8.56 | 580.53 | 7.51 | 581.58 | 7.50 | 581.59 | 6.54 | 582.55 | 6.29 | 582.80 | 6.50 | 582.59 | 6.75 | 582.34 | 6.53 | 582.56 | 6.74 | 582.45 | 7.03 | 582.06 | 6.01 | 583.08 | | |
| MW115S | 6.68 | 582.32 | 8.38 | 580.62 | 9.44 | 579.56 | 9.26 | 579.74 | 9.41 | 579.59 | 9.65 | 579.35 | 9.91 | 579.09 | 9.84 | 579.16 | 9.64 | 579.36 | 9.50 | 579.50 | 7.91 | 581.09 | 7.60 | 581.40 | 8.55 | 580.45 | 8.74 | 580.26 | 9.11 | 579.89 | 8.80 | 580.20 | 9.03 | 579.97 | 7.95 | 581.05 | | |
| MW116P | 7.68 | 582.24 | 8.39 | 581.53 | 8.91 | 581.01 | 8.98 | 580.94 | 9.01 | 580.91 | 9.62 | 580.30 | 9.52 | 580.40 | 9.45 | 580.47 | 9.28 | 580.64 | 9.02 | 580.90 | 7.94 | 581.98 | 7.75 | 582.17 | 7.91 | 582.01 | 8.23 | 581.69 | 8.05 | 581.87 | 8.14 | 581.78 | 8.38 | 581.54 | 7.29 | 582.64 | | |
| MW116S | 7.63 | 582.29 | 9.24 | 580.67 | 9.97 | 579.94 | 9.90 | 580.01 | 9.02 | 580.90 | 10.55 | 579.36 | 10.48 | 579.43 | 10.38 | 579.53 | 10.15 | 579.76 | 10.02 | 579.89 | 8.93 | 580.99 | 8.55 | 581.37 | 8.96 | 580.96 | 9.39 | 580.52 | 8.59 | 581.33 | 9.27 | 580.64 | 9.50 | 580.41 | 8.41 | 581.51 | | |
| MW119D | 6.69 | 582.05 | 6.66 | 582.08 | 6.69 | 582.05 | 6.75 | 581.99 | 6.75 | 581.99 | 6.80 | 581.94 | 6.80 | 581.94 | 6.76 | 581.98 | 6.88 | 581.86 | 7.00 | 581.74 | 6.92 | 581.82 | 6.89 | 581.85 | 6.85 | 581.89 | 6.82 | 581.92 | 6.80 | 581.94 | 6.75 | 581.99 | 6.75 | 581.99 | 6.67 | 582.07 | | |
| EW-3 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-10 | 4.91 | 582.88 | 24.64 | 563.11 | 23.64 | 564.11 | 20.28 | 567.48 | 12.62 | 575.16 | 17.35 | 570.42 | 22.46 | 565.30 | 22.62 | 565.14 | 22.26 | 565.50 | 24.73 | 563.02 | 24.49 | 563.26 | 24.63 | 563.12 | 24.51 | 563.24 | 24.42 | 563.33 | 24.56 | 563.19 | 24.82 | 562.93 | 24.68 | 563.07 | 24.65 | 563.10 | | |
| EW-11 | 4.23 | 583.11 | 27.06 | 560.24 | 26.97 | 560.33 | 27.09 | 560.21 | 27.02 | 560.28 | 28.02 | 559.28 | 22.24 | 565.07 | 23.03 | 564.28 | 27.18 | 560.12 | 27.24 | 560.06 | 27.22 | 560.58 | 22.82 | 564.49 | 22.83 | 564.48 | 27.21 | 560.09 | 27.02 | 560.28 | 23.41 | 563.90 | 24.78 | 562.53 | 5.67 | 581.67 | | |
| EW-13 | 2.85 | 582.97 | 4.46 | 581.35 | 24.18 | 561.56 | 8.07 | 577.73 | 25.32 | 560.42 | 5.91 | 579.90 | 22.37 | 563.38 | 22.41 | 563.34 | 24.63 | 561.11 | 22.14 | 560.62 | 24.24 | 561.50 | 13.72 | 572.06 | 24.84 | 560.90 | 25.41 | 560.33 | 24.32 | 564.43 | 24.37 | 561.37 | 22.76 | 562.99 | 20.55 | 565.20 | | |
| EW-14 | 4.51 | 582.27 | 5.31 | 581.47 | 21.93 | 564.77 | 22.44 | 564.26 | 6.23 | 580.55 | 22.17 | 564.53 | 18.72 | 568.00 | 16.83 | 569.90 | 20.12 | 566.59 | 22.02 | 564.68 | 21.63 | 565.07 | 14.42 | 572.32 | 14.81 | 571.93 | 21.51 | 565.20 | 17.21 | 569.52 | 19.60 | 567.11 | 21.34 | 565.37 | 15.52 | 571.21 | | |
| MW034M | 11.51 | 576.74 | 11.33 | 576.92 | 11.14 | 577.11 | 11.14 | 577.11 | 10.95 | 577.30 | 11.15 | 577.10 | 10.89 | 577.36 | 10.90 | 577.35 | 10.39 | 577.86 | 10.03 | 578.22 | 9.29 | 578.96 | 9.02 | 579.23 | 8.82 | 579.43 | 7.77 | 580.48 | 10.96 | 577.29 | 11.13 | 577.12 | 11.58 | 576.67 | 11.48 | 576.77 | | |
| MW034S | 11.82 | 576.40 | 11.64 | 576.58 | 11.47 | 576.75 | 11.45 | 576.77 | 11.35 | 576.87 | 11.42 | 576.80 | 11.24 | 576.98 | 11.10 | 577.12 | 10.77 | 577.45 | 10.43 | 577.79 | 9.65 | 578.57 | 9.32 | 578.90 | 9.13 | 579.09 | 9.06 | 579.16 | 11.22 | 577.00 | 11.34 | 576.88 | 11.86 | 576.36 | 11.71 | 576.51 | | |
| MW036M | 12.50 | 576.09 | 12.24 | 576.35 | 12.02 | 576.58 | 12.01 | 576.59 | 10.01 | 578.62 | 11.91 | 576.69 | 11.80 | 576.80 | 12.04 | 576.56 | 11.52 | 577.09 | 11.30 | 577.31 | 10.10 | 578.53 | 8.91 | 579.74 | 9.48 | 579.16 | 9.45 | 579.19 | 10.78 | 577.84 | 11.13 | 577.48 | 11.61 | 576.99 | 11.75 | 576.85 | | |
| MW036S | 11.96 | 576.31 | 11.66 | 576.51 | 11.43 | 576.84 | 11.43 | 576.84 | 11.32 | 576.95 | 11.40 | 576.87 | 11.22 | 577.05 | 11.42 | 576.85 | 10.83 | 577.44 | 10.55 | 577.72 | 9.46 | 578.81 | 9.10 | 579.17 | 8.83 | 579.45 | 8.73 | 579.55 | 10.03 | 578.24 | 10.38 | 577.89 | 10.88 | 577.39 | 11.00 | 577.27 | | |
| MW038M | 11.34 | 576.35 | 11.01 | 576.68 | 10.84 | 576.85 | 10.78 | 576.91 | 10.58 | 577.11 | 10.82 | 576.87 | 10.62 | 577.07 | 10.53 | 577.16 | 10.26 | 577.43 | 9.78 | 577.91 | 8.42 | 579.27 | 8.00 | 579.69 | 7.79 | 579.90 | 7.76 | 579.93 | 9.44 | 578.25 | 9.82 | 577.87 | 10.42 | 577.27 | 10.38 | 577.31 | | |
| MW038S | 11.33 | 576.38 | 11.00 | 576.71 | 10.85 | 576.86 | 10.80 | 576.91 | 10.59 | 577.12 | 10.82 | 576.89 | 10.55 | 577.16 | 10.46 | 577.25 | 10.24 | 577.47 | 9.71 | 578.00 | 8.30 | 579.41 | 7.89 | 579.82 | 7.65 | 580.06 | 7.65 | 580.06 | 9.48 | 578.23 | 9.85 | 577.86 | 10.49 | 577.22 | 10.38 | 577.33 | | |
| MW120D | 6.94 | 581.71 | 6.26 | 582.39 | 6.25 | 582.40 | 6.59 | 582.06 | 6.66 | 581.99 | 6.91 | 581.74 | 6.74 | 581.91 | 6.61 | 582.04 | 6.63 | 582.02 | 6.80 | 581.85 | 6.14 | 582.51 | 6.10 | 582.55 | 6.14 | 582.51 | 6.38 | 582.27 | 5.55 | 583.11 | 5.98 | 582.67 | 6.02 | 582.63 | 5.73 | 582.92 | | |
| MW120M | 12.47 | 576.52 | 12.30 | 576.69 | 12.21 | 576.79 | 12.21 | 576.79 | 12.00 | 577.00 | 12.20 | 576.80 | 11.98 | 577.02 | 12.04 | 576.96 | 11.43 | 577.58 | 11.12 | 577.90 | 9.37 | 579.68 | 9.13 | 579.93 | 9.99 | 579.05 | 9.91 | 579.13 | 10.68 | 578.35 | 10.99 | 578.03 | 11.40 | 577.61 | 10.10 | 578.94 | | |
| MW120S | 12.02 | 576.57 | 11.85 | 576.74 | 11.85 | 576.74 | 11.73 | 576.86 | 11.69 | 576.90 | 11.81 | 576.78 | 11.61 | 576.98 | 11.77 | 576.82 | 11.04 | 577.56 | 10.55 | 578.05 | 9.63 | 578.97 | 9.46 | 579.14 | 9.38 | 579.22 | 9.48 | 579.12 | 9.65 | 578.95 | 10.03 | 578.57 | 10.48 | 578.12 | 10.09 | 578.51 | | |
| EW-2 | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| EW-8 | 9.23 | 577.55 | 8.90 | 577.88 | 8.77 | 578.01 | 8.65 | 578.13 | 7.50 | 579.28 | 8.87 | 577.91 | 8.47 | 578.31 | 8.61 | 578.17 | 8.14 | 578.64 | 7.72 | 579.06 | 6.45 | 580.33 | 6.01 | 580.78 | 5.75 | 581.04 | 5.75 | 581.04 | 10.80 | 575.98 | 11.14 | 575.63 | 11.86 | 574.91 | 12.64 | 574.13 | | |
| EW-9 | 8.63 | 577.07 | 8.42 | 577.28 | 8.33 | 577.37 | 8.25 | 577.45 | 8.10 | 577.60 | 8.24 | 577.46 | 8.02 | 577.68 | 8.37 | 577.33 | 7.53 | 578.17 | 7.27 | 578.44 | 6.45 | 579.26 | 6.13 | 579.58 | 5.94 | 579.77 | 5.91 | 579.80 | 18.78 | 566.90 | 20.50 | 565.18 | 19.24 | 566.44 | 19.92 | 565.76 | | |
| MW004M | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - | NM | - |
| MW004S | 4.45 | 584.13 | 4.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |