

February 5, 2021

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 January 16, 2021 through January 29, 2021.

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 January 19th and 27th, 2021. The average water level, based on the most recent water level measurements (January 27th, 2021) during the reporting period, in the former Salt Vault was 579.07 feet above mean sea level (ft. AMSL), or 1.17 feet above the target level. The average water level in the former 8th Street Slip was 574.18 ft. AMSL, or 3.72 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 0.79 gallons per minute (gpm) from the four extraction wells and total recovery rates in the former 8th Street Slip area averaged 3.12 gpm from the two extraction wells when operated. The extraction wells within the former Salt Vault have been continuously operating during the reporting period. Also, during this reporting period, operation of the extraction wells within the 8th Street Slip area have been on a more intermittent basis to maintain water levels which are presently below target levels.

- 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 2021 season is provided below.

Summary of Pump Down Operations (January 29, 2021)

	Gallons Pumped	Gallons Treated at GWTS ¹	Gallons Transported for Off Site Disposal
This Period	~46,350	~0	~41,350
2021 Operations to Date	~105,850	~0	~100,850

All quantities are estimated.

Issues Encountered During Reporting Period

No operational issues were encountered during this reporting period. 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

Pumping operations will be maximized in the area of the former Salt Vault to the extent possible. Finally, policies and procedures are being evaluated on an ongoing basis to address the COVID-19 outbreak.

Anticipated Work During Next Reporting Period

The PDP extraction system consisting of the wells within the former Salt Vault will be operated on a continuous basis. Extraction wells within the former 8th Street Slip will be operated on an intermittent basis to maintain water levels below target elevations. 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
Ryan Suennen – Tyco Fire Products
Heather Ziegelbauer – Jacobs
Kirk Kapfhammer – Endpoint Solutions Corp.

Table 1. 2021 Pump Down Program Groundwater Elevation Monitoring

Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation	577.9
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Well ID	January 6, 2021		January 12, 2021		January 19, 2021		January 27, 2021	
	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	8.08	579.04	8.24	578.88	8.25	578.87	8.27	578.85
MW001S	8.60	578.60	8.75	578.45	8.75	578.45	8.63	578.57
MW002M-R	11.75	578.76	11.38	579.14	11.50	579.02	11.48	579.04
MW002S-R	10.66	579.62	10.96	579.32	11.32	578.96	11.30	578.98
MW031M	9.10	578.93	8.87	579.16	8.84	579.19	8.64	579.39
MW031S	9.70	579.17	9.58	579.29	9.67	579.20	9.62	579.25
MW113S	11.63	578.65	11.23	579.05	11.30	578.98	11.26	579.02
MW113M	11.30	578.97	11.09	579.18	11.05	579.22	11.07	579.20
MW115P	10.06	579.02	10.25	578.83	10.24	578.84	10.21	578.87
MW115S	9.60	579.37	9.69	579.28	9.70	579.27	9.63	579.34
MW116P	10.33	579.53	10.20	579.66	10.30	579.56	10.26	579.60
MW116S	11.23	578.64	10.88	578.99	10.85	579.02	10.84	579.03
MW119D	7.14	581.58	7.23	581.49	7.25	581.47	7.21	581.51
EW-3	NM	-	NM	-	NM	-	NM	-
EW-10	24.12	562.90	25.03	561.99	24.81	562.21	24.96	562.06
EW-11	24.22	562.44	22.10	564.56	20.93	565.73	21.73	564.93
EW-13	25.37	559.68	24.30	560.75	22.13	562.93	22.63	562.43
EW-14	22.15	563.86	22.91	563.10	18.42	567.61	20.86	565.16
MW034M	13.36	574.86	13.27	574.95	14.10	574.12	14.06	574.16
MW034S	13.97	574.21	13.85	574.33	14.43	573.75	14.17	574.01
MW036M	14.31	574.22	14.48	574.05	14.74	573.79	14.65	573.88
MW036S	13.89	574.36	14.03	574.22	14.25	574.00	14.13	574.12
MW038M	11.75	574.39	11.91	574.23	12.23	573.91	12.16	573.98
MW038S	13.55	574.27	13.73	574.09	14.06	573.76	13.93	573.89
MW120D	6.97	581.63	7.13	581.47	7.14	581.46	7.13	581.47
MW120M	14.20	574.71	14.20	574.71	14.36	574.54	14.28	574.63
MW120S	13.73	574.79	13.69	574.83	13.81	574.71	13.71	574.81
EW-2	NM	-	NM	-	NM	-	NM	-
EW-8	11.61	574.04	11.10	574.55	16.34	569.30	12.11	573.54
EW-9	10.83	574.18	10.18	574.83	19.80	565.19	11.81	573.20
MW004M	NM	-	NM	-	NM	-	NM	-
MW004S	6.31	582.43	6.21	582.53	5.93	582.81	6.02	582.72
MW032M	6.46	581.90	6.33	582.03	6.23	582.13	6.30	582.06
MW032S	6.20	582.30	6.10	582.40	5.79	582.71	5.91	582.59
MW033M	5.20	582.53	5.19	582.54	4.83	582.91	4.87	582.87
MW033S	4.95	582.38	4.90	582.43	4.59	582.74	4.71	582.62
MW039M	NM	-	NM	-	NM	-	NM	-
MW039S	3.75	582.45	3.68	582.52	3.38	582.82	3.41	582.79
MW035M	NM	-	NM	-	NM	-	NM	-
MW035S	6.02	581.63	5.93	581.72	5.72	581.93	5.77	581.88
MW037M	NM	-	NM	-	NM	-	NM	-
MW037S	5.41	581.66	5.35	581.72	5.05	582.02	5.11	581.96
SG4	NM	-	NM	-	NM	-	NM	-
Rough Target Elevation Calc SV*		578.97		579.07		579.02		579.07
Rough Target Elevation Calc 8S*		574.48		574.43		574.07		574.18
Target Elevation (NAVD88)		577.90		577.9		577.9		577.9
SV Variance		1.07		1.17		1.12		1.17
8S Variance		-3.42		-3.47		-3.83		-3.72

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