

One Stanton Street Marinette, WI 54143-2542

Tele: 715-735-7411

February 25, 2020

Ms. Jennifer Dodds 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 Ms. Dodds:

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 February 1, 2020 through February 14, 2020.

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 weekly during the reporting period. The average water level,
 based on the most recent water level measurements (February 12, 2020) during the
 reporting period, in the former Salt Vault was 579.97 feet above mean seal level (ft.
 AMSL), or 2.07 feet above the target level. The average water level in the former 8th
 Street Slip was 577.23 ft. AMSL, or 0.67 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 0.92 gallons per minute (gpm) from the four extraction wells
 which have been primarily operating continuously during the reporting period with
 the exception that EW-13 and EW-14 operations have alternated at times as an
 electrical need was addressed. At this time, no water is being extracted from the

- wells within the former 8th Street Slip based on the water levels being below target level.
- Off-site transportation of recovered groundwater was conducted during the reporting period. Off-site disposal operations are primarily completed Monday, Wednesday and Friday of each week with generally one (1) truck (approximately 5,000 gallons) each of these days as needed to allowing for continuous pumping from the extraction wells.

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

Summary of Pump Down Operations (February 14, 2020)

	Gallons Pumped	Gallons Treated at GWTS ¹	Gallons Transported for Off Site Disposal
This Period 2020 Operations to Date	~18,600	~0	~17,600
	~54,100	~0	~53,100

All quantities are estimated

Issues Encountered During Reporting Period

No operational issues occurred during the reporting period with the exception that EW-13 and EW-14 operations have alternated at times due to continued electrical supply issues.

Issues To Be Resolved During Next Reporting Period

The electrical supply issue associated with EW-13 and EW-14 will be addressed. No other issues that require resolution have been identified at this time.

Anticipated Work During Next Reporting Period

The PDP extraction system will continue to be operated on a continuous basis. Manual water level measurements will continue to be collected from the designated monitoring wells and extraction wells on at least a weekly basis.

¹ GWTS – Groundwater Treatment System

If you have any questions regarding this report, please contact me at 414-524-3344 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

My M Danke

Trevor Moen - WDNR

Joseph Janeczek – 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

Januar Well ID DTW	ry 8, 2020	y 8, 2020 Janua		Januar	y 31, 2020	February 5, 2020		February 12, 2020		February 19, 2020		
	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 Groundwate Elevation (fo equivalent fresh water)	
MW001M	5.02	582.15	7.81	579.36	8.33	578.84	8.27	578.90	8.32	578.85	8.92	578.25
MW001S	5.06	582.20	NM	-	NM	-	7.21	580.05	7.34	579.92	7.94	579.32
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
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
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
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
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
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
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
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
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
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
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
EW-3	NM	-	NM	-	NM	-	NM	-	NM	- 1	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
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
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
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
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
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
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
MW036S	11.96	576.31	11.66	576.61	11.43	576.84	11.43	576.84	11.32	576.95	11.40	576.87
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
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
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
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
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
EW-2	NM	570.57	NM	370.74	NM	570.74	NM	370.00	NM	570.90	NM	370.70
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
EW-9	8.63		8.42	577.28	8.33		8.25			577.60	8.24	577.46
MW004M	NM	577.07	NM	3/1.20	NM	577.37	NM	577.45	8.10 NM	577.60	NM	577.40
	4.45	584.13	4.78	583.80	5.01	583.57	4.71	583.87	5.01	583.57	5.35	583.23
MW004S MW032M	5.29	582.94	5.29	582.94	5.34	582.89	5.29	582.94	5.43	582.80	5.92	582.31
MW032M MW032S	4.71	583.65	4.36	584.00	4.94	583.42	4.81	583.55	4.94	583.42	5.92	582.97
			3.79									
MW033M	3.51	585.31 584.06	3.79	585.03 583.71	3.97	584.84 583.53	3.73	585.09 583.77	3.95	584.86 583.50	4.00	584.81 582.84
MW033S		584.06			3.64				3.67			582.84
MW039M	NM		NM		NM	-	NM 0.45		NM		NM	
MW039S	1.92	584.17	2.22	583.87	2.42	583.67	2.15	583.94	2.45	583.64	2.82	583.27
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	5.44	582.23	5.32	582.35	5.26	582.41	5.29	582.38	5.32	582.35	5.33	582.34
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	4.69	582.39	4.70	582.38	4.70	582.38	4.69	582.39	4.69	582.39	4.85	582.23
SG4	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
Rough Target Elevat				580.46		579.89		579.91		579.97		579.31
Rough Target Elevat				576.66		576.81		576.85		577.23		576.85
Target Elevation	on (NAVD88			577.9		577.9		577.9		577.90		577.90
	SV Variance	4.46		2.56		1.99		2.01		2.07		1.41
	8S Variance	-1.48		-1.24		-1.09		-1.05		-0.67		-1.05

Notes:

 $\label{eq:measurements} \mbox{Measurements were collected from top of casing (TOC)}. \mbox{ All depth measurements are in feet.}$

Elevations are reported in feet above mean sea level (AMSL) relative top 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