One Stanton Street
Marinette, WI 54143-2542
Tele: 715-735-7411

September 16, 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 August 29, 2020 through September 11, 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 September 1st and 8th, 2020. The average water level, based on the most recent water level measurements (September 8, 2020) during the reporting period, in the former Salt Vault was 581.00 feet above mean seal level (ft. AMSL), or 3.10 feet above the target level. The average water level in the former 8th Street Slip was 575.45 ft. AMSL, or 2.45 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 7.48 gallons per minute (gpm) from the six extraction wells when operated. The extraction wells within the Salt Vault have been continuously operating during the reporting period with the exception of short-term cessation during the week / weekends until the holding tanks can be

emptied. Also note, 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 2020 season is provided below.

Summary of Pump Down Operations (September 11, 2020)

	Gallons Pumped	Gallons Treated at GWTS[1]	Gallons Transported for Off Site Disposal
This Period	~65,800	~0	~65,800
2020 Operations to Date	~964,980	~0	~963,980

All quantities are estimated.

Issues Encountered During 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

No issues that require resolution have been identified at this time with the exception that 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 Salt Vault will be operated on a continuous basis. Extraction wells within the 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 513-314-7543 or rick.dewey.bethel@jci.com.

Sincerely,

Rick Bethel
EHS Manager – Environmental Remediation

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – WDNR
Trevor Moen - WDNR
Jeff Danko – 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	
	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	578.90	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
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
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
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
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
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
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
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
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
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
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
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
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
EW-3	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
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	560.08	22.82	564.49	22.83	564.48	27.21	560.09
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	563.61	24.24	561.50	13.72	572.06	24.84	560.90	25.41	560.33
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
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
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
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
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	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
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
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
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
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
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
EW-2	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
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
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S	4.45	584.13	4.78	583.80	5.01	583.57	4.71	583.87	5.01	583.57	5.35	583.23	5.00	583.58	4.97	583.61	4.50	584.08	4.31	584.27	3.88	584.70	3.88	584.70	4.04	584.54	4.30	584.28
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	5.61	582.62	5.34	582.89	5.02	583.21	5.12	583.11	4.88	583.35	4.76	583.47	5.00	583.23	4.53	583.70
MW032S	4.71	583.65	4.36	584.00	4.94	583.42	4.81	583.55	4.94	583.42	5.39	582.97	5.15	583.21	5.10	583.26	4.57	583.79	4.60	583.76	4.37	583.99	4.28	584.08	4.32	584.04	4.56	583.80
MW033M	3.51	585.31	3.79	585.03	3.97	584.84	3.73	585.09	3.95	584.86	4.00	584.81	4.23	584.58	4.01	584.80	3.51	585.31	3.36	585.46	2.87	585.96	2.91	585.92	3.00	585.83	3.31	585.52
MW033S	3.11	584.06	3.46	583.71	3.64	583.53	3.40	583.77	3.67	583.50	4.33	582.84	3.89	583.28	3.87	583.30	3.20	583.97	2.93	584.24	2.50	584.67	2.62	584.55	2.67	584.50	2.95	584.22
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	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	2.64	583.45	2.31	583.78	1.89	584.20	1.78	584.31	1.35	584.74	1.33	584.76	1.51	584.58	1.75	584.34
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	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	5.34	582.33	5.27	582.40	5.09	582.58	5.36	582.31	5.20	582.47	5.11	582.56	5.28	582.39	5.28	582.39
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	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	4.75	582.33	4.67	582.41	4.51	582.57	4.69	582.39	4.61	582.47	4.50	582.58	4.70	582.38	4.65	582.43
SG4	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	6.42	582.43	6.42	582.43	6.44	582.41	6.62	582.23
Rough Target Elevation Calc SV*		582.36		580.46		579.89		579.91		579.97		579.31		579.42		579.55		579.69		579.83		580.95		581.19		580.77		580.67
Rough Target Elevation Calc 8S*		576.42		576.66		576.81		576.85		577.23		576.85		577.05		577.01		577.48		577.86		579.03		579.45		579.42		579.58
Target Elevation (NAVD88)		577.90		577.9		577.9		577.9		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90
SV Variance		4.46		2.56		1.99		2.01		2.07		1.41		1.52		1.65		1.79		1.93		3.05		3.29		2.87		2.77
8S Variance		-1.48		-1.24		-1.09		-1.05		-0.67		-1.05		-0.85		-0.89		-0.42		-0.04		1.13		1.55		1.52		1.68

Table 1. 2020 Pump Down Program Groundwater Elevation Monitoring

Tyco Fire Products LP, Marinette, Wisconsin

Target Elevation	577.9

Well ID	April 29, 2020		May 6, 2020		May 13, 2020		May 20, 2020		May 27, 2020		June 2, 2020		June 9, 2020		June 15, 2020		June 24, 2020		July 1, 2020		July 8, 2020		July 14, 2020		July 17, 2020		July 22, 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)
MW001M	7.47	579.70	7.56	579.61	7.76	579.41	6.80	580.37	6.40	580.77	6.52	580.65	6.46	580.71	6.11	581.06	6.96	580.21	7.16	580.01	7.06	580.11	5.28	581.89	6.80	580.37	6.65	580.52
MW001S	6.45	580.81	6.61	580.65	6.89	580.37	5.76	581.50	5.16	582.10	5.44	581.82	5.41	581.85	5.09	582.17	5.89	581.37	6.01	581.25	5.98	581.28	5.39	581.87	5.65	581.61	5.55	581.71
MW002M-R	9.60	580.97	9.79	580.78	9.98	580.58	8.92	581.66	8.31	582.27	8.59	581.99	8.52	582.06	8.30	582.28	9.09	581.48	9.21	581.36	9.19	581.38	8.61	581.97	8.87	581.71	8.75	581.83
MW002S-R	9.30	581.02	9.65	580.67	9.93	580.39	8.91	581.41	8.20	582.12	8.50	581.82	8.40	581.92	8.15	582.17	8.96	581.36	9.09	581.23	9.02	581.30	8.48	581.84	8.75	581.57	8.66	581.66
MW031M	7.00	581.05	7.15	580.90	7.39	580.66	6.31	581.74	5.73	582.33	5.96	582.10	5.93	582.13	5.60	582.46	6.45	581.60	6.64	581.41	6.54	581.51	6.11	581.95	6.22	581.83	6.16	581.90
MW031S	7.90	581.00	7.81	581.09	8.08	580.82	6.69	582.21	6.40	582.50	6.52	582.38	6.54	582.36	6.50	582.40	6.90	582.00	7.17	581.73	7.07	581.83	6.98	581.92	6.99	581.91	6.85	582.05
MW113S	9.45	580.84	9.60	580.69	9.81	580.48	8.72	581.57	8.09	582.20	8.44	581.85	8.29	582.00	8.08	582.21	8.91	581.38	9.04	581.25	9.02	581.27	8.38	581.91	8.69	581.60	8.60	581.69
MW113M	9.47	580.83	9.71	580.59	9.92	580.38	7.72	582.58	7.45	582.85	8.94	581.36	7.64	582.66	7.52	582.78	8.34	581.96	9.00	581.30	9.55	580.75	7.83	582.47	8.95	581.35	9.08	581.22
MW115P	6.53	582.56	6.64	582.45	7.03	582.06	6.01	583.08	5.92	583.17	5.88	583.21	5.99	583.10	6.18	582.91	6.33	582.76	6.66	582.43	6.77	582.32	6.78	582.31	6.86	582.23	6.68	582.41
MW115S	9.11	579.89	8.80	580.20	9.03	579.97	7.95	581.05	7.32	581.68	7.63	581.37	7.56	581.44	7.31	581.69	8.01	580.99	8.15	580.85	8.11	580.89	7.12	581.88	7.33	581.67	7.22	581.78
MW116P	8.05	581.87	8.14	581.78	8.38	581.54	7.29	582.64	7.24	582.69	7.14	582.79	7.29	582.64	7.49	582.44	7.45	582.48	7.67	582.25	7.62	582.30	7.76	582.16	7.76	582.16	7.70	582.22
MW116S	8.59	581.33	9.27	580.64	9.50	580.41	8.41	581.51	7.92	582.00	8.09	581.83	8.05	581.87	7.40	582.52	8.55	581.37	8.70	581.22	8.67	581.25	8.09	581.83	8.30	581.62	8.25	581.67
MW119D	6.80	581.94	6.75	581.99	6.75	581.99	6.67	582.07	6.62	582.12	6.59	582.15	6.52	582.22	6.45	582.29	6.45	582.29	6.41	582.33	6.39	582.35	6.38	582.36	6.37	582.37	6.35	582.39
EW-3	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	24.56	563.19	24.82	562.93	24.68	563.07	24.65	563.10	24.46	563.29	24.68	563.07	24.65	563.10	18.64	569.12	24.35	563.40	24.61	563.14	24.65	563.10	5.26	582.53	24.72	563.03	24.65	563.10
EW-11	27.02	560.28	23.41	563.90	24.78	562.53	5.67	581.67	4.13	583.21	23.44	563.87	4.43	582.91	22.53	564.78	25.09	562.22	27.11	560.19	27.12	560.18	4.56	582.78	26.52	560.78	27.12	560.18
EW-13	21.32	564.43	24.37	561.37	22.76	562.99	20.55	565.20	22.08	563.67	18.78	566.98	20.57	565.18	18.83	566.93	23.04	562.70	20.24	565.51	25.08	560.66	3.23	582.59	3.52	582.30	3.39	582.43
EW-14	17.21	569.52	19.60	567.11	21.34	565.37	15.52	571.21	21.07	565.64	21.18	565.53	20.68	566.03	20.89	565.82	23.37	563.33	19.39	567.33	21.49	565.22	19.96	566.75	21.43	565.28	21.73	564.97
MW034M	10.96	577.29	11.13	577.12	11.58	576.67	11.48	576.77	11.15	577.10	11.33	576.92	11.57	576.68	11.48	576.77	11.74	576.51	12.41	575.84	12.01	576.24	11.03	577.22	12.20	576.05	12.21	576.04
MW034S	11.22	577.00	11.34	576.88	11.86	576.36	11.71	576.51	11.35	576.87	11.56	576.66	11.83	576.39	11.57	576.65	12.24	575.98	12.50	575.72	12.30	575.92	11.43	576.79	12.45	575.77	12.46	575.76
MW036M	10.78	577.84	11.13	577.48	11.61	576.99	11.75	576.85	11.38	577.23	11.53	577.08	11.89	576.71	11.60	577.00	12.44	576.15	12.71	575.87	12.47	576.12	12.47	576.12	12.69	575.89	12.58	576.01
MW036S	10.03	578.24	10.38	577.89	10.88	577.39	11.00	577.27	10.70	577.57	10.79	577.48	11.16	577.11	10.96	577.31	11.82	576.45	12.10	576.17	11.87	576.40	11.86	576.41	12.13	576.14	12.01	576.26
MW038M	9.44	578.25	9.82	577.87	10.42	577.27	10.38	577.31	9.77	577.92	10.16	577.53	10.69	577.00	10.40	577.29	11.37	576.32	11.72	575.97	11.45	576.24	11.69	576.00	11.45	576.24	11.45	576.24
MW038S	9.48	578.23	9.85	577.86	10.49	577.22	10.38	577.33	10.00	577.71	10.19	577.52	10.71	577.00	10.46	577.25	11.45	576.26	11.86	575.85	11.56	576.15	11.58	576.13	11.71	576.00	11.65	576.06
MW120D	5.55	583.11	5.98	582.67	6.02	582.63	5.73	582.92	5.62	583.03	5.99	582.66	5.82	582.83	5.73	582.92	5.60	583.05	5.83	582.82	5.80	582.85	5.86	582.79	5.72	582.93	5.81	582.84
MW120M	10.68	578.35	10.99	578.03	11.40	577.61	10.10	578.94	11.20	577.82	11.16	577.86	11.50	577.51	11.48	577.53	10.88	578.14	12.17	576.83	12.07	576.93	11.89	577.11	12.21	576.79	12.17	576.83
MW120S	9.65	578.95	10.03	578.57	10.48	578.12	10.09	578.51	10.24	578.36	10.09	578.51	10.58	578.02	10.77	577.83	11.83	576.76	11.29	577.30	11.27	577.33	11.26	577.34	11.32	577.27	10.40	578.20
EW-2	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	10.80	575.98	11.14	575.63	11.86	574.91	12.64	574.13	11.61	575.16	12.03	574.74	12.47	574.30	11.81	574.96	9.82	576.96	11.52	575.25	13.20	573.57	13.22	573.55	13.90	572.87	12.90	573.87
EW-9	18.78	566.90	20.50	565.18	19.24	566.44	19.92	565.76	19.42	566.26	19.97	565.71	20.14	565.54	19.62	566.06	15.71	569.98	13.89	571.80	20.19	565.49	8.22	577.48	20.44	565.24	19.22	566.46
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S	4.32	584.26	4.60	583.98	4.84	583.74	3.93	584.65	4.12	584.46	3.89	584.69	4.47	584.11	4.63	583.95	4.43	584.15	4.89	583.69	5.10	583.48	4.88	583.70	4.53	584.05	4.25	584.33
MW032M	4.88	583.35	5.10	583.13	5.36	582.87	4.45	583.78	4.68	583.55	4.71	583.52	5.07	583.16	5.14	583.09	4.95	583.28	5.22	583.01	5.34	582.89	5.18	583.05	4.88	583.35	4.71	583.52
MW032S	4.53	583.83	4.75	583.61	5.08	583.28	4.25	584.11	4.30	584.06	4.46	583.90	4.97	583.39	5.07	583.29	4.44	583.92	5.39	582.97	5.72	582.64	7.30	581.06	7.09	581.27	6.84	581.52
MW033M	3.39	585.43	3.60	585.22	3.84	584.98	2.88	585.95	3.12	585.71	2.97	585.86	3.54	585.28	3.68	585.14	3.45	585.37	3.91	584.90	4.10	584.71	3.87	584.95	3.52	585.30	3.23	585.60
MW033S	3.13	584.04	3.29	583.88	3.56	583.61	2.56	584.61	2.75	584.42	2.67	584.50	3.21	583.96	3.35	583.82	3.15	584.02	3.62	583.55	3.81	583.36	3.61	583.56	3.21	583.96	2.92	584.25
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	1.76	584.33	2.07	584.02	2.32	583.77	1.38	584.71	1.59	584.50	1.37	584.72	1.94	584.15	2.11	583.98	1.83	584.26	2.34	583.75	2.54	583.55	2.33	583.76	1.93	584.16	1.64	584.45
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	4.66	583.01	5.02	582.65	5.13	582.54	4.74	582.93	4.75	582.92	4.78	582.89	4.79	582.88	4.78	582.89	4.81	582.86	5.24	582.43	4.82	582.85	4.83	582.84	4.86	582.81	4.62	583.05
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	4.02	583.06	4.44	582.64	4.52	582.56	4.15	582.93	4.09	582.99	4.29	582.79	4.24	582.84	4.21	582.87	4.15	582.93	4.19	582.89	4.19	582.89	4.24	582.84	4.23	582.85	4.11	582.97
SG4	NM	-	6.25	582.60	6.20	582.65	5.90	582.95	5.72	583.13	6.20	582.65	6.00	582.85	5.90	582.95	6.80	582.05	6.04	582.81	7.00	581.85	6.12	582.73	6.00	582.85	6.00	582.85
Rough Target Elevation Calc SV*	580.74		580.58		580.35		581.56		582.08		581.72		581.90		582.18		581.37		581.16		581.16		581.95		581.52		581.60	
Rough Target Elevation Calc 8S*	578.02		577.71		577.20		577.44		577.57		577.44		577.05		577.20		576.57		576.19		576.41		576.64		576.27		576.42	
Target Elevation (NAVD88)	577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90		577.90	
SV Variance	2.84		2.68		2.45		3.66		4.18		3.82		4.00		4.28		3.47		3.26		3.26		4.05		3.62		3.70	
8S Variance	0.12		-0.19		-0.70		-0.46		-0.33		-0.46		-0.85		-0.70		-1.33		-1.71		-1.49		-1.26		-1.63		-1.48	

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

Target Elevation	**577.9**

Well ID	July 29, 2020		August 5, 2020		August 13, 2020		August 18, 2020		August 26, 2020		September 1, 2020		September 8, 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)
MW001M	6.65	580.52	7.02	580.15	7.28	579.89	7.34	579.83	7.36	579.81	7.51	579.66	7.20	579.97
MW001S	5.62	581.64	5.98	581.28	6.39	580.87	6.39	580.87	6.55	580.71	6.63	580.63	6.06	581.20
MW002M-R	8.77	581.81	9.17	581.40	9.54	581.03	9.53	581.04	9.70	580.87	9.80	580.77	9.35	581.22
MW002S-R	8.66	581.66	9.00	581.32	9.40	580.92	9.40	580.92	8.94	581.38	9.63	580.69	8.64	581.68
MW031M	6.01	582.05	6.48	581.57	6.93	581.12	6.89	581.16	7.13	580.92	7.10	580.95	6.68	581.37
MW031S	6.69	582.21	7.18	581.72	7.67	581.23	6.85	582.05	7.97	580.93	7.94	580.96	7.70	581.20
MW113S	8.63	581.66	9.01	581.28	9.39	580.90	9.40	580.89	9.55	580.74	9.66	580.63	9.24	581.05
MW113M	9.14	581.16	9.53	580.77	9.76	580.54	9.78	580.52	9.84	580.46	10.40	579.90	9.99	580.31
MW115P	6.68	582.41	7.08	582.01	7.38	581.71	7.48	581.61	7.58	581.51	7.84	581.25	7.96	581.13
MW115S	7.75	581.25	7.79	581.21	8.42	580.58	8.44	580.56	7.60	581.40	8.58	580.42	8.05	580.95
MW116P	8.27	581.65	7.84	582.08	8.12	581.80	8.17	581.75	8.29	581.63	8.49	581.43	8.73	581.19
MW116S	7.57	582.35	8.54	581.38	9.02	580.90	9.02	580.90	9.15	580.76	9.26	580.65	8.85	581.07
MW119D	6.30	582.44	6.28	582.46	6.28	582.46	6.28	582.46	6.30	582.44	6.30	582.44	6.39	582.35
EW-3	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-10	24.58	563.17	24.66	563.09	24.66	563.09	24.66	563.09	24.68	563.07	24.60	563.15	5.92	581.87
EW-11	24.03	563.28	22.99	564.32	27.56	559.74	27.47	559.83	25.14	562.17	23.83	563.48	22.00	565.31
EW-13	24.98	560.76	4.60	581.21	22.24	563.51	25.46	560.27	22.08	563.67	18.46	567.30	23.70	562.04
EW-14	21.56	565.15	9.47	577.29	21.31	565.40	21.61	565.10	21.75	564.95	21.40	565.31	20.45	566.26
MW034M	11.11	577.14	12.02	576.23	12.29	575.96	12.38	575.87	12.75	575.50	12.94	575.31	12.79	575.46
MW034S	11.54	576.68	12.19	576.03	12.52	575.70	12.63	575.59	13.05	575.17	13.25	574.97	12.90	575.32
MW036M	12.18	576.41	12.29	576.30	12.78	575.80	12.95	575.63	12.15	576.44	12.68	575.90	13.40	575.17
MW036S	11.62	576.65	11.70	576.57	12.18	576.09	12.36	575.91	12.89	575.38	13.14	575.13	12.91	575.36
MW038M	9.27	576.76	9.49	576.54	10.07	575.96	10.34	575.69	11.09	574.94	11.28	574.75	10.88	575.15
MW038S	10.98	576.73	11.24	576.47	11.89	575.82	12.19	575.51	12.97	574.73	13.14	574.56	12.69	575.01
MW120D	5.97	582.68	5.73	582.92	5.93	582.72	5.93	582.72	5.89	582.76	5.90	582.75	6.06	582.59
MW120M	11.96	577.04	12.12	576.88	12.18	576.82	12.48	576.51	12.75	576.24	12.94	576.04	12.99	575.99
MW120S	11.43	577.16	11.40	577.19	11.66	576.93	11.77	576.82	11.90	576.69	12.18	576.41	12.45	576.14
EW-2	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
EW-8	8.90	577.88	9.37	577.41	14.03	572.74	14.44	572.33	16.50	570.26	19.09	567.67	16.90	569.86
EW-9	8.31	577.39	19.42	566.26	20.25	565.43	19.34	566.34	19.50	566.18	19.30	566.38	19.02	566.66
MW004M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW004S	4.39	584.19	4.94	583.64	5.05	583.53	5.17	583.41	5.34	583.24	5.53	583.05	5.78	582.80
MW032M	4.89	583.34	5.24	582.99	5.39	582.84	5.41	582.82	5.49	582.74	5.63	582.60	5.86	582.37
MW032S	6.47	581.89	6.27	582.09	6.12	582.24	6.06	582.30	5.97	582.39	5.94	582.42	5.92	582.44
MW033M	3.42	585.40	3.98	584.83	4.06	584.75	4.17	584.64	4.35	584.46	4.55	584.25	4.73	584.07
MW033S	3.11	584.06	3.69	583.48	3.80	583.37	3.89	583.28	4.06	583.11	4.25	582.92	4.49	582.68
MW039M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW039S	1.85	584.24	2.39	583.70	2.49	583.60	2.61	583.48	2.79	583.30	2.98	583.11	3.22	582.87
MW035M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW035S	4.89	582.78	4.84	582.83	4.89	582.78	4.93	582.74	4.87	582.80	4.99	582.68	5.24	582.43
MW037M	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW037S	4.33	582.75	4.20	582.88	4.31	582.77	4.33	582.75	4.30	582.78	4.37	582.71	4.62	582.46
SG4	6.04	582.81	5.96	582.89	5.91	582.94	6.15	582.70	6.20	582.65	4.80	582.65	4.91	582.54
Rough Target Elevation Calc SV*	581.63		581.21		580.80		580.87		580.80		580.53		581.00	
Rough Target Elevation Calc 8S*	576.82		576.53		576.13		575.94		575.64		575.39		575.45	
Target Elevation (NAVD88)	577.90		577.90		577.90		577.90		577.90		577.90		577.90	
SV Variance	3.73		3.31		2.90		2.97		2.90		2.63		3.10	
8S Variance	-1.08		-1.37		-1.77		-1.96		-2.26		-2.51		-2.45	

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 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