

**From:** Ryan Suennen <[ryan.suennen@jci.com](mailto:ryan.suennen@jci.com)>  
**Sent:** Wednesday, April 17, 2019 10:19 AM  
**To:** Neal, Conor  
**Cc:** Jeffrey Howard Danko; Joseph Janeczek; Killian, James - DNR; Carey, Angela J - DNR  
**Subject:** RE: Quarterly Report Q1 2019  
**Attachments:** Table01\_TycoPDP\_ManualGW\_Elev-20190326.pdf

Hi Conor,

I apologize, looking back I see you were not included on that distribution, I have attached the GW summary sheet from the last 3 months. Our contractor began Pump Down operations yesterday and sent out the first truck this morning, but we don't yet have the pre-start water table data tabulated. Once we do we will send that along as well.

Please let me know if you have any questions or concerns,

Thanks,

**Ryan Suennen**  
Environmental Supervisor  
Johnson Controls

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**From:** Neal, Conor [<mailto:Neal.Conor@epa.gov>]  
**Sent:** Wednesday, April 17, 2019 8:25 AM  
**To:** Ryan Suennen <[ryan.suennen@jci.com](mailto:ryan.suennen@jci.com)>  
**Cc:** Jeffrey Howard Danko <[jeffrey.howard.danko@jci.com](mailto:jeffrey.howard.danko@jci.com)>; Joseph Janeczek <[joseph.janeczek@jci.com](mailto:joseph.janeczek@jci.com)>; [JAMES.KILLIAN@WISCONSIN.GOV](mailto:JAMES.KILLIAN@WISCONSIN.GOV); Angela Carey <[angela.carey@wisconsin.gov](mailto:angela.carey@wisconsin.gov)>  
**Subject:** RE: Quarterly Report Q1 2019

Hi Ryan,

Thank you for providing the Q1 quarterly report. At the top of page 2 Tyco mentions that GW elevation data were collected and provided to the agencies via email. Neither EPA nor WDNR have received GW elevation data this quarter, via email or otherwise. Can you provide us with the data from the January 16, February 14, and March 26, 2019 measurements?

Thank you,  
Conor  
312-886-7193

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**From:** Ryan Suennen <[ryan.suennen@jci.com](mailto:ryan.suennen@jci.com)>  
**Sent:** Tuesday, April 16, 2019 10:35 PM  
**To:** Neal, Conor <[Neal.Conor@epa.gov](mailto:Neal.Conor@epa.gov)>  
**Cc:** Jeffrey Howard Danko <[jeffrey.howard.danko@jci.com](mailto:jeffrey.howard.danko@jci.com)>; Joseph Janeczek <[joseph.janeczek@jci.com](mailto:joseph.janeczek@jci.com)>; [JAMES.KILLIAN@WISCONSIN.GOV](mailto:JAMES.KILLIAN@WISCONSIN.GOV); Angela Carey <[angela.carey@wisconsin.gov](mailto:angela.carey@wisconsin.gov)>  
**Subject:** Quarterly Report Q1 2019

Hello Conor,

Attached is the quarterly report covering the January 2019 through March 2019 timeline. Please let me know if you have any questions or concerns.

Much appreciated,

**Ryan Suennen**  
Environmental Supervisor  
Johnson Controls

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

Target Elevation	<b>577.9</b>
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Well ID	January 16, 2019		February 14, 2019		March 26, 2019	
	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)	DTW	Corrected Groundwater Elevation (for equivalent fresh water)
<b>MW001M</b>	6.87	580.30	NM	-	6.29	580.88
<b>MW001S</b>	6.95	580.31	NM	-	NM	-
<b>MW002M-R</b>	10.09	580.65	10.22	580.51	9.61	581.14
<b>MW002S-R</b>	10.02	580.30	10.14	580.18	9.5	580.82
<b>MW031M</b>	7.49	580.54	7.77	580.26	7.05	580.99
<b>MW031S</b>	8.47	580.43	8.80	580.10	7.97	580.93
<b>MW113S</b>	9.97	580.32	10.04	580.25	9.43	580.86
<b>MW113M</b>	9.11	581.19	9.25	581.05	8.58	581.72
MW115P	8.49	580.60	9.66	579.43	8.12	580.97
<b>MW115S</b>	8.68	580.32	8.78	580.22	8.15	580.85
MW116P	10.17	579.74	10.36	579.55	9.30	580.62
<b>MW116S</b>	9.56	580.35	9.64	580.27	9.02	580.90
MW119D	10.53	578.21	9.36	579.38	8.54	580.20
EW-3	NM	-	NM	-	NM	-
EW-10	NM	-	NM	-	NM	-
EW-11	6.06	581.28	NM	-	5.57	581.77
EW-13	4.75	581.06	NM	-	4.28	581.53
EW-14	5.8	580.98	NM	-	5.16	581.62
<b>MW034M</b>	12.76	575.49	12.52	575.73	12.16	576.09
<b>MW034S</b>	13.07	575.15	12.85	575.37	12.57	575.65
<b>MW036M</b>	13.72	574.85	13.41	575.16	13.21	575.36
<b>MW036S</b>	13.19	575.08	12.91	575.36	12.68	575.59
<b>MW038M</b>	12.69	575.00	12.43	575.26	12.13	575.56
<b>MW038S</b>	12.74	574.96	12.36	575.34	12.19	575.51
MW120D	7.99	580.84	7.61	581.22	7.50	581.34
<b>MW120M</b>	13.56	575.37	13.39	575.54	13.16	575.77
<b>MW120S</b>	13.33	575.26	13.16	575.43	13.08	575.51
EW-2	NM	-	NM	-	NM	-
EW-8	NM	-	NM	-	10.09	576.69
EW-9	9.91	575.79	NM	-	9.39	576.31
MW004M	NM	-	NM	-	NM	-
<b>MW004S</b>	5.77	582.81	6.44	582.14	5.22	583.36
<b>MW032M</b>	6.44	581.78	6.59	581.63	5.64	582.59
<b>MW032S</b>	5.62	582.74	6.24	582.12	4.91	583.45
<b>MW033M</b>	4.73	584.07	5.34	583.45	4.06	584.75
<b>MW033S</b>	4.36	582.81	5.11	582.06	3.78	583.39
MW039M	NM	-	NM	-	NM	-
<b>MW039S</b>	2.57	583.52	NM	-	2.63	583.46
MW035M	NM	-	NM	-	NM	-
<b>MW035S</b>	6.20	581.47	6.73	580.94	5.45	582.22
MW037M	NM	-	NM	-	NM	-
<b>MW037S</b>	5.53	581.55	6.14	580.94	4.43	582.65
SG4	NM	-	NM	-	7.10	581.79
<b>Rough Target Elevation Calc SV*</b>		580.47		580.36		581.01
<b>Rough Target Elevation Calc 8SS*</b>		575.14		575.40		575.63
<b>Target Elevation (NAVD88)</b>		577.9		577.9		577.9
<b>SV Variance</b>		2.57		2.46		3.11
<b>8SS Variance</b>		-2.76		-2.50		-2.27

**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