

October 10, 2018

Mr. Conor Neal
Hydrogeologist
Land & Chemicals Division
US Environmental Protection Agency, Mail Code LU-9J
77 West Jackson Blvd
Chicago, IL 60604-3590

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

Dear Mr. Neal:

The information provided herein is a summary of activities conducted at the Tyco Fire Products LP (Tyco) site associated with the Pump Down Program for the former Salt Vault and 8th Street Slip areas. The Pump Down Program is required as part of the Administrative Order on Consent between Tyco and U.S. Environmental Protection Agency (USEPA). This summary report covers the period from September 22, 2018 through October 5, 2018.

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 at least weekly during the reporting period. The average water level, based on the most recent water level measurements during the reporting period, in the former Salt Vault was 577.90 feet above mean seal level (ft. AMSL), or at the target level. The average water level in the former 8th Street Slip was 574.16 ft. AMSL, or 3.74 feet below the target level. A cumulative summary of manual water level readings and corrected elevations is attached as Table 1.
- Total groundwater recovery rates in the former Salt Vault area averaged 0.80 gallons per minute (gpm) per well from the four extraction wells during the reporting period. Total groundwater recovery rates in the former 8th Street Slip averaged 1.88 gpm per well from the two extraction wells during pumping

operations. The extraction wells in each area were reported to have operated continuously during the reporting period.

- Off-site transportation of recovered groundwater was conducted during the reporting period. Off-site disposal operations are limited to five days per week with generally 1-2 trucks (approximately 5,000-10,000 gallons) per day necessary to maintain tank levels allowing for continuous pumping from the extraction wells.

A summary of pumping and disposal operations for the 2018 season is provided below.

Summary of Pump Down Operations (through October 5, 2018)

	Gallons Pumped	Gallons Treated at GWTS ¹	Gallons Transported for Off Site Disposal
This Period	~77,790	~0	~68,990
2018 Operations To Date	~1,174,360	~0	~1,169,450 ²

All quantities are estimated

Issues Encountered during Reporting Period

No operational issues occurred during the reporting period.

Issues To Be Resolved During Next Reporting Period

No issues that require resolution have been identified at this time.

Anticipated Work During Next Reporting Period

Manual water level measurements will be collected from the designated monitoring wells on a weekly basis. Groundwater elevation data will be provided in the next bi-weekly summary report. Extracted groundwater will continue to be transported to Vickery for disposal.

¹ GWTS – Groundwater Treatment System

² Volume includes stormwater recovered in secondary containment structure

If you have any questions regarding this report, please contact me at 262-951-6888 or jeff.danko-ext@jci.com.

Sincerely,



Jeffrey Danko
Environmental Project Geologist

Attachments:

Table 1 –Pump Down Program Groundwater Elevation Monitoring

cc: Angela Carey – WDNR
Trevor Moen - WDNR
Joseph Janeczek – Johnson Controls
Richard Mator – Johnson Controls
Ryan Suennen – Tyco Fire Products

Well ID	April 24, 2017		May 10, 2017		June 6, 2017		June 15, 2017		June 16, 2017		July 6, 2017		August 1, 2017		August 4, 2017		August 15, 2017		August 23, 2017		August 25, 2017		August 25, 2017		September 1, 2017		September 5, 2017		September 11, 2017		September 14, 2017		September 25, 2017		October 2, 2017		October 4, 2017		October 9, 2017				
	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)	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
MW001M	5.48	581.53	5.26	581.75	4.79	582.38	4.28	582.90	4.23	582.95	3.88	583.30	3.54	583.64	3.40	583.78	3.70	583.48	3.81	583.37	4.01	583.17	3.79	583.45	8.61	578.56	6.32	580.85	4.46	582.71	4.25	582.93	7.89	579.28	8.82	578.35	-	8.99	578.18	8.1	579.07		
MW001S	5.59	581.54	5.35	581.78	4.86	582.40	4.38	582.88	4.31	582.95	3.95	583.31	3.60	583.66	3.44	583.82	3.74	583.52	3.87	583.39	4.07	583.19	3.80	583.46	7.51	579.65	5.06	581.76	4.50	582.76	4.34	582.92	6.75	580.51	7.76	579.50	-	7.93	579.33	6.97	580.29		
MW002M	7.23	581.78	7.5	582.02	8.07	582.70	7.56	583.22	7.53	583.25	7.16	583.63	6.81	583.99	6.66	584.14	6.97	583.83	7.08	583.71	7.28	583.51	7.00	583.79	10.58	580.15	8.31	582.46	7.40	583.08	7.50	583.29	9.66	581.08	10.70	580.02	10.57	580.16	10.92	579.80	9.94	580.80	
MW002R	7.2	581.52	7	581.72	7.93	582.39	7.43	582.89	7.41	582.91	7.01	583.31	6.68	583.64	6.55	583.77	6.84	583.48	6.95	583.37	7.16	583.16	6.88	583.44	10.46	579.86	8.26	582.06	7.59	582.73	7.37	582.95	9.62	580.70	10.62	579.70	10.26	580.06	10.85	579.47	9.82	580.50	
MW003M	6.3	581.58	6.1	581.78	5.59	582.46	5.14	582.91	5.10	582.95	4.74	583.31	4.40	583.65	4.21	583.84	4.46	583.59	4.59	583.46	4.79	583.26	4.59	583.53	7.33	580.70	5.29	582.76	5.56	582.69	4.97	583.08	6.11	583.70	7.84	580.19	10.05	580.99	7.73	580.30	6.53	581.51	
MW0031S	5.78	581.49	5.54	581.73	6.27	582.63	5.77	583.13	5.80	583.10	5.58	583.32	5.26	583.64	4.95	583.95	5.20	583.70	5.31	583.59	5.55	583.35	5.29	583.61	8.11	580.79	6.15	582.75	6.19	582.71	5.90	583.00	7.72	581.18	8.62	580.28	8.62	580.28	9.5	579.40	7.64	581.26	
MW113S	6.59	581.67	6.37	581.92	7.89	582.40	7.37	582.92	7.35	582.94	6.96	583.33	6.63	583.66	6.47	583.83	6.81	583.48	6.90	583.39	7.12	583.17	6.82	583.47	10.78	579.51	8.65	581.64	7.51	582.78	7.32	582.97	9.90	580.39	10.52	579.77	10.5	579.79	10.93	579.38	10.03	580.26	
MW113M	6.27	581.88	6.11	582.04	6.68	582.62	6.29	583.01	7.30	583.00	7.08	583.22	6.97	583.33	6.75	583.55	7.00	583.30	7.18	583.12	7.28	583.02	7.11	583.19	9.65	580.65	7.80	582.50	7.64	582.66	7.49	583.00	8.90	581.40	9.41	580.89	9.89	580.41	10.11	580.19	9.15	581.15	
MW115P	5.19	582.01	5.05	582.15	6.39	582.71	5.95	583.15	5.94	583.16	5.71	583.39	5.44	583.66	5.29	583.81	5.53	583.57	5.62	583.48	5.78	583.32	5.58	583.52	8.20	580.89	6.29	582.81	6.16	582.94	5.97	583.13	7.02	582.08	7.98	581.11	7.7	581.39	7.96	581.13	8.5	580.59	
MW115S	5.25	581.57	5.06	581.76	6.60	582.40	6.08	582.92	6.05	582.95	5.68	583.32	5.34	583.66	5.19	583.81	5.49	583.51	5.60	583.40	5.81	583.19	5.56	583.44	9.21	579.79	7.18	581.82	6.27	582.73	6.00	583.00	8.46	580.59	9.43	579.57	9.31	579.69	9.4	579.60	8.27	580.73	
MW119P	6.4	581.58	6.55	581.43	7.64	582.28	7.23	582.70	7.20	582.73	6.73	583.20	6.37	583.56	6.29	583.64	6.39	583.54	6.43	583.50	6.55	583.38	6.42	583.51	7.14	582.79	6.99	582.94	7.13	582.80	6.96	582.97	7.58	582.35	8.13	581.79	8.1	581.82	8.63	581.29	8.25	581.67	
MW119S	6.39	581.58	6.18	581.79	7.48	582.44	6.97	582.95	6.93	583.00	6.56	583.37	6.22	583.71	6.03	583.90	6.35	583.58	6.48	583.45	6.67	583.26	6.38	583.55	10.26	579.65	8.50	581.42	7.14	582.78	6.90	583.03	9.63	580.28	10.48	579.43	10.33	579.58	10.64	579.27	9.74	580.17	
MW119D	9.37	577.58	45.67	541.28	27.83	560.91	23.99	564.95	23.45	565.29	17.44	571.30	12.88	575.86	12.52	576.22	11.35	577.39	10.69	578.05	10.56	578.18	10.42	578.46	10.07	578.67	9.87	578.87	9.59	579.15	9.45	579.29	9.58	579.68	8.99	579.78	8.89	579.85	8.54	580.20	8.72	580.02	
EW-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EW-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EW-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EW-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW034M	7.71	578.91	7.42	579.20	8.52	579.73	10.01	578.24	10.40	577.85	7.90	580.35	7.54	580.71	7.41	580.84	7.40	580.85	7.37	580.88	7.44	580.81	7.30	580.95	9.44	578.81	8.36	579.89	7.70	580.55	7.60	580.65	7.84	580.41	9.18	579.07	9.55	578.70	9.79	578.46	9.47	578.78	
MW034S	7.73	578.78	7.47	579.07	8.65	579.57	8.25	579.97	8.34	579.88	8.00	580.27	7.61	580.62	7.52	580.71	7.47	580.76	7.46	580.77	7.55	580.68	7.34	580.89	9.68	578.54	8.70	579.52	7.79	580.43	7.68	580.54	7.88	580.34	9.47	578.75	9.56	578.46	9.96	578.26	9.6	578.62	
MW035M	6.36	578.52	8.06	578.82	9.31	579.34	9.09	579.56	9.05	579.60	8.69	579.97	8.36	580.30	8.23	580.43	8.23	580.43	8.18	580.49	8.21	580.46	8.02	580.65	9.16	579.49	8.50	580.16	8.59	580.07	8.39	580.27	8.69	579.97	9.11	579.54	9.37	579.27	9.51	579.03	9.35	579.29	
MW035S	6.11	578.85	5.79	579.18	8.59	579.69	8.35	579.93	8.32	579.96	7.95	580.33	7.56	580.72	7.50	580.78	7.44	580.84	7.39	580.89	7.46	580.82	7.31	580.97	8.32	579.96	7.78	580.50	7.79	580.49	7.66	580.62	7.94	580.34	8.42	579.86	8.56	579.72	8.8	579.48	8.59	579.69	
MW038M	8.64	579.05	8.3	579.39	7.97	579.72	7.74	579.95	7.70	579.99	7.29	580.40	6.95	580.74	6.85	580.84	6.84	580.85	6.78	580.80	6.77	580.82	6.71	580.92	7.93	579.76	7.21	580.48	7.27	580.42	7.14	580.55	7.54	580.29	7.85	580.27	-	8.45	577.58	8.14	577.89		
MW038S	8.61	579.10	8.27	579.44	7.94	579.77	7.68	580.03	7.63	580.08	7.22	580.49	6.91	580.80	6.86	580.85	6.80	580.91	6.78	580.93	6.85	580.86	6.72	580.99	8.04	579.67	7.40	580.31	7.20	580.51	7.13	580.58	7.39	580.32	8.09	580.30	-	8.57	577.46	8.3	577.73		
MW120D	6.44	580.94	6.5	580.88	7.92	580.51	7.32	581.52	7.40	581.44	7.27	581.57	7.30	581.54	7.12	582.10	7.17	581.67	7.50	581.54	7.65	581.68	7.20	581.64	7.35	581.49	7.30	581.54	7.54	581.30	7.49	581.35	7.45	581.39	7.80	581.03	7.5	581.34	7.77	581.47			
MW120M	8.26	578.88	8.1	579.04	9.38	579.64	9.08	580.01	9.05	580.07	8.61	580.48	8.26	580.86	8.21	580.92	8.28	580.93	8.28	580.94	8.21	580.91	8.07	581.11	9.03	579.97	8.49	580.48	8.48	580.53	8.48	580.64	8.60	580.41	9.11	579.81	9.23	579.77	9.19	579.81	8.93	579.77	
MW120S	7.72	578.96	7.66	579.02	8.96	579.64	8.52	580.08	8.55	580.05	8.32	580.28	7.94	580.66	7.69	580.91	7.78	580.82	7.85	580.75	7.96	580.64	7.67	580.93	8.14	580.46	7.97																

Well ID	May 18, 2018		May 22, 2018		May 24, 2018		May 25, 2018		May 29, 2018		May 31, 2018		June 5, 2018		June 8, 2018		June 12, 2018		June 14, 2018		June 19, 2018		June 22, 2018		June 26, 2018		June 28, 2018		July 3, 2018		July 5, 2018		July 10, 2018		July 13, 2018		July 17, 2018		July 19, 2018		July 20, 2018					
	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)	DTW	Corrected Elevation (for equivalent fresh water)
MW001M	10.45	576.72	10.00	577.17	10.33	576.84	9.68	577.49	9.47	577.70	9.99	577.18	10.25	576.92	10.71	576.46	10.19	576.98	10.62	576.55	10.10	577.07	10.43	576.74	10.30	576.87	10.25	576.92	10.27	576.80	9.71	577.46	10.02	577.15	10.28	576.89	10.44	576.73	10.29	576.88	10.13	577.04	9.21	578.05	9.21	578.05
MW002M-R	12.49	578.20	12.00	578.70	12.44	578.25	11.63	578.89	11.40	579.31	12.03	578.67	12.26	578.44	12.86	577.82	12.06	578.64	12.76	577.93	12.08	578.62	12.51	578.18	12.45	578.24	12.44	578.25	12.41	578.28	11.92	578.78	12.09	578.61	12.43	578.26	12.62	577.87	12.49	578.20	12.23	578.47	12.14	578.14		
MW002S-R	12.41	577.91	11.92	578.40	12.35	577.97	11.51	578.81	11.28	579.04	11.89	578.43	12.22	578.10	12.75	577.57	11.94	578.38	12.67	577.65	12.09	578.23	12.45	577.87	12.35	577.97	12.38	577.94	12.27	578.05	11.81	578.51	12.00	578.32	12.30	578.02	12.53	577.99	12.37	577.95	12.16	578.16				
MW0031M	9.85	578.17	9.06	578.96	9.89	578.13	9.20	578.82	8.15	579.88	9.29	578.73	9.34	578.60	10.22	577.80	9.46	578.56	10.10	577.92	9.30	578.72	9.91	578.11	9.79	578.23	9.92	578.10	9.64	578.08	9.31	578.71	9.20	578.82	9.78	578.24	9.98	578.04	9.91	578.11	9.75	578.12				
MW0031S	11.00	577.90	10.41	578.49	10.98	577.92	9.80	579.00	9.74	579.16	10.39	578.51	10.74	578.16	11.31	577.59	10.14	578.76	11.21	577.69	10.58	578.32	11.01	577.89	10.95	577.95	11.00	577.90	10.72	578.18	10.17	578.73	10.38	578.52	10.88	578.02	11.02	577.88	6.31	582.59	10.79	578.11				
MW0031M	11.13	579.16	10.81	579.49	11.13	579.16	10.04	580.26	10.33	579.97	10.81	579.49	10.99	579.30	11.34	578.95	9.82	580.48	11.38	578.91	10.90	579.39	11.11	579.18	12.35	577.94	10.92	577.37	11.05	579.24	10.62	579.68	10.98	579.31	11.15	579.14	11.39	578.90	11.28	579.01	11.79	579.16				
MW0031S	9.06	580.03	8.69	580.40	9.14	579.95	8.77	580.32	8.49	580.60	8.67	580.42	9.10	579.99	9.79	579.30	9.23	579.86	9.66	579.43	9.28	579.81	9.60	579.49	9.65	579.44	9.77	579.32	9.57	579.52	9.38	579.71	9.84	579.25	10.14	578.95	9.95	579.14	9.76	579.33						
MW0031M	11.14	577.85	10.53	578.47	11.11	577.88	10.37	578.63	10.05	578.95	10.56	578.44	11.22	577.77	11.69	577.30	11.09	577.90	11.58	577.41	10.97	578.02	11.35	577.64	11.27	577.72	11.21	577.78	11.21	577.82	10.72	578.28	10.85	578.15	11.17	577.82	11.37	577.62	11.19	577.80	11.04	577.95				
MW0031S	9.34	580.58	9.22	580.70	9.43	580.49	9.32	580.60	9.14	580.78	9.15	580.77	9.31	580.61	9.76	580.16	9.57	580.35	9.80	580.11	9.73	580.19	9.81	580.10	9.85	580.06	9.94	579.97	9.98	579.93	9.88	580.03	9.86	580.05	9.99	579.92	10.13	579.78	10.09	579.82						
MW0031M	12.04	577.86	11.55	578.35	11.99	577.91	11.28	578.62	11.05	578.76	11.50	578.40	11.90	578.00	12.38	577.52	11.80	578.10	12.31	577.59	11.70	578.20	12.11	577.79	12.02	577.88	11.99	577.91	11.91	577.99	11.50	578.40	11.62	578.28	11.93	577.97	12.12	577.78	11.96	577.94	11.78	578.12				
MW0031S	45.69	543.05	42.24	546.50	40.51	548.23	39.94	548.80	37.01	551.73	35.52	553.22	32.35	556.39	30.63	558.11	28.47	560.27	27.54	561.20	25.26	563.48	24.01	564.73	22.48	566.26	21.28	567.88	20.21	568.53	19.63	569.11	18.24	570.50	17.51	571.23	16.67	572.07	16.29	572.45	16.02	572.72				
EW-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
EW-10	23.80	563.95	21.30	566.46	23.86	563.89	20.93	566.83	23.46	564.29	23.74	564.01	21.54	566.27	21.69	566.07	19.43	568.33	23.64	564.11	21.95	565.81	22.05	565.71	24.35	563.40	23.88	565.87	21.68	566.08	20.96	566.80	21.61	566.15	24.22	563.53	19.68	568.08	23.51	564.24	23.20	564.55				
EW-11	28.74	557.56	27.98	559.23	23.03	564.28	22.89	564.42	26.01	561.29	22.79	564.52	22.78	564.53	23.02	564.29	28.52	564.78	23.19	564.12	22.90	564.41	23.04	564.27	23.16	564.15	26.03	563.27	22.55	559.75	26.93	564.27	23.02	564.29	23.16	564.15	23.57	563.74	25.61	563.28	22.03	565.28				
EW-13	10.17	575.62	8.53	577.27	10.39	575.40	11.22	574.57	9.91	575.88	8.26	577.54	20.26	565.49	20.73	565.02	19.46	566.30	15.02	570.75	20.60	565.15	16.93	566.84	24.15	561.59	23.57	562.17	19.93	565.83	19.35	566.41	23.15	562.59	21.01	564.74	22.29	563.46	23.58	562.16	21.02	564.73				
EW-14	20.38	566.33	20.33	566.38	20.83	566.38	20.83	566.38	21.25	565.46	20.94	566.77	21.21	565.50	21.32	565.29	21.13	565.58	21.11	565.60	21.30	565.41	21.18	565.53	21.55	565.16	21.87	564.83	21.63	565.22	21.05	565.66	21.76	564.94	21.68	565.02	21.91	564.79	21.53	569.19	21.37	569.35				
MW034M	9.89	578.36	9.86	578.39	10.08	578.17	10.40	577.85	10.44	577.81	10.74	577.51	10.84	577.41	11.19	577.06	11.13	577.12	11.40	576.85	11.32	576.93	11.65	576.60	11.71	576.54	11.81	576.65	11.96	576.29	11.86	576.39	11.98	576.27	12.28	575.87	12.43	575.82	12.56	575.69	12.57	575.68				
MW034S	10.00	578.22	9.98	578.24	10.25	577.97	10.56	577.66	10.60	577.62	10.97	577.25	11.05	577.17	11.43	576.79	11.31	576.91	11.60	576.62	11.53	576.69	11.88	576.34	11.88	576.34	11.81	576.41	12.13	576.09	11.96	576.26	12.14	576.08	12.41	575.81	12.63	575.60	12.73	575.49	12.75	575.47				
MW035M	10.48	578.14	10.41	578.21	10.77	577.85	10.48	578.14	10.42	578.21	10.89	577.73	10.93	577.69	11.36	577.25	11.01	577.60	11.65	576.95	11.57	577.03	12.11	576.48	12.22	576.37	12.32	576.27	12.58	576.01	12.45	576.14	12.59	576.00	13.03	575.55	13.18	575.40	13.39	575.18	13.46	575.11				
MW035S	9.71	578.56	9.58	578.69	9.91	578.36	9.69	578.58	9.62	578.65	10.09	578.18	10.13	578.14	10.61	577.66	10.06	578.21	10.92	577.35	10.84	577.43	11.39	576.88	11.49	576.78	11.70	576.57	11.94	576.33	11.89	576.38	11.92	576.35	12.40	575.87	12.53	575.74	12.72	575.55	12.81	575.46				
MW038M	9.73	577.96	9.51	578.18	9.91	577.98	9.60	578.09	9.43	578.26	10.01	577.68	10.00	577.69	10.43	577.26	10.04	577.65	10.78	576.91	10.66	577.03	11.31	576.38	11.41	576.28	11.61	576.08	11.82	575.82	11.69	576.00	12.29	575.30	12.45	575.24	12.77	574.92	12.85	574.84						
MW038S	9.82	577.89	9.59	578.12	10.05	577.66	9.69	578.02	9.48	578.23	10.12	577.59	10.05	577.66	10.56	577.15	10.10	577.61	10.91	576.80	10.78	576.93	11.49	576.22	11.55	576.16	11.75	575.96	12.00	575.71	11.89	575.82	12.01	575.70	12.60	575.10	12.63	575.07	12.96	574.74	13.06	574.64				
MW1200	10.51	581.63	10.40	581.54	10.77	581.67	10.48	581.69	10.42	581.71	10.89	581.69	10.93	581.69	11.36	581.48	11.36	581.48	11.65	581.68	11.57	581.68	12.11	581.68	12.22	581.68	12.45	581.74	12.58	581.66	12.07	581.77	12.32	581.52	12.71	581.63	12.91	581.63	13.17	581.67						
MW1200S	8.65	579.95	8.57	580.03	8.85	579.75	8.66	579.94	8.86	579.74	8.94	579.66	9.25	579.35	9.70	578.90	8.9																													